

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

<b>1.1</b> Name of the Institution	MAR ATHANASIUS COLLEGE
<b>1.2</b> Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
<b>1.3</b> NAAC Track ID	KLCOGN10194
<b>1.4</b> Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45-56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943-2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the ‘District level Teachers Training Programme of National Children’s Science Congress 2015’ organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

**3.14 No. of linkages created during this year: Nil**

**3.15 Total Budget for Research for current year in lakhs:**

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

**3.16 No. of Patents received this year: Nil**

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	Guide: Dr. Sheela Varghese	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	Guide: Dr. Leena George	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41 m <sup>2</sup>	Nil	299.41 m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

NET Qualified Students		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanayam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student</b> <i>(p.a-per annum, p.m- per month)</i>	<b>Total amount granted</b>
Higher Education	9	12000/- p. a	1,08,000/-
Hindi Scholarship	2	500/- p. m	12,000/-
State Merit Scholarship	2	1250/- p. a	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- p. a	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- p. a	10,000/-
Sitharam Jindal Scholarship	17	150/- p. m	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on ‘Class Room Management’ by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		<p>5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’.</p> <p>6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.</p>
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	<p>1. Smart Board Familiarization Programme</p> <p>2. ICT Training- “Office Automation”</p> <p>3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri.</p> <p>4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.</p>
j.	Workshops and Seminars	<p>1. One Day lecture on ‘Role of Statistics in Actuarial Science’</p> <p>2. A workshop ‘Social Science Research Methodology’</p> <p>3. A workshop ‘Model making of Mathematical Concepts’</p> <p>4. A National level workshop on ‘Gravitational Waves’</p> <p>5. Campus Bird Count in Association with International</p> <p>6. Backyard Bird Count</p> <p>7. <i>National Science Day</i> ‘Make in India - Science &amp; Technology Driven Innovations’</p> <p>8. <i>World Sparrow Day</i></p>
k.	Management sponsored National Seminars	<p>Seminar Series in Connection with Diamond Jubilee:-</p> <p>Seminar on ‘Education’</p> <p>Seminar on ‘Media’</p> <p>Seminar on ‘Sports’</p> <p>Seminar on ‘History’</p> <p>Seminar on ‘Environment’</p> <p>Seminar on ‘Agriculture’</p> <p>Seminar on ‘Malayalam Literature’</p> <p>Seminar on ‘Women Empowerment’</p> <p>Seminar on ‘Secularism’</p>
l.	Green Campus	<p><i>World Environment Day</i> celebration</p> <p>Bottle Garden</p> <p>Campus cleaning</p>
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	<p>Placement Drive for Life Science students by Episource, a U. S. based company</p> <p>All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’</p> <p>ASAP Orientation</p> <p>Career Development Classes</p>
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	<p>Students Interacted with Smt. Kiran Bedi, IPS</p> <p>Celebrated International Women’s Day</p>

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

1.1 Name of the Institution	MAR ATHANASIUS COLLEGE
1.2 Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
1.3 NAAC Track ID	KLCOGN10194
1.4 Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45- 56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943- 2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

### 3.14 No. of linkages created during this year: **Nil**

### 3.15 Total Budget for Research for current year in lakhs:

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

### 3.16 No. of Patents received this year: **Nil**

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	Guide: Dr. Sheela Varghese	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	Guide: Dr. Leena George	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41m <sup>2</sup>	Nil	299.41m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

NET Qualified Students		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student</b> <i>(p.a-per annum, p.m- per month)</i>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on ‘Class Room Management’ by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

<b>1.1</b> Name of the Institution	MAR ATHANASIOUS COLLEGE
<b>1.2</b> Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
<b>1.3</b> NAAC Track ID	KLCOGN10194
<b>1.4</b> Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45- 56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943- 2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

### 3.14 No. of linkages created during this year: **Nil**

### 3.15 Total Budget for Research for current year in lakhs:

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

### 3.16 No. of Patents received this year: **Nil**

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41 m <sup>2</sup>	Nil	299.41 m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

<b>NET Qualified Students</b>		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student (<i>p.a-per annum, p.m- per month</i>)</b>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on 'Class Room Management' by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on 'Teaching Morality in and out of the Classroom' by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanathi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

<b>1.1</b> Name of the Institution	MAR ATHANASIUS COLLEGE
<b>1.2</b> Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
<b>1.3</b> NAAC Track ID	KLCOGN10194
<b>1.4</b> Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45-56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943-2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

**3.14 No. of linkages created during this year: Nil**

**3.15 Total Budget for Research for current year in lakhs:**

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

**3.16 No. of Patents received this year: Nil**

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41 m <sup>2</sup>	Nil	299.41 m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

<b>NET Qualified Students</b>		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	<b>State/ University level</b>	<b>National level</b>	<b>International level</b>
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

<b>Event</b>	<b>State/ University level</b>	<b>National level</b>	<b>International level</b>
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

<b>Year</b>	<b>Sports</b>	<b>Name of students</b>	<b>Level of participation</b>
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

<b>SI No</b>	<b>Name of student</b>	<b>Position</b>
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	Kavithaparanam A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student (<i>p.a-per annum, p.m- per month</i>)</b>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on ‘Class Room Management’ by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanathi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

1.1 Name of the Institution	MAR ATHANASIUS COLLEGE
1.2 Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
1.3 NAAC Track ID	KLCOGN10194
1.4 Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45-56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943-2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

### 3.14 No. of linkages created during this year: **Nil**

### 3.15 Total Budget for Research for current year in lakhs:

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

### 3.16 No. of Patents received this year: **Nil**

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41 m <sup>2</sup>	Nil	299.41 m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

<b>NET Qualified Students</b>		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student (<i>p.a-per annum, p.m- per month</i>)</b>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on ‘Class Room Management’ by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanathi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

<b>1.1</b> Name of the Institution	MAR ATHANASIOUS COLLEGE
<b>1.2</b> Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
<b>1.3</b> NAAC Track ID	KLCOGN10194
<b>1.4</b> Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45-56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943-2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgou, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

### 3.14 No. of linkages created during this year: **Nil**

### 3.15 Total Budget for Research for current year in lakhs:

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

### 3.16 No. of Patents received this year: **Nil**

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41m <sup>2</sup>	Nil	299.41m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

NET Qualified Students		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student (<i>p.a-per annum, p.m- per month</i>)</b>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on 'Class Room Management' by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on 'Teaching Morality in and out of the Classroom' by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanathi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

1.1 Name of the Institution	MAR ATHANASIUS COLLEGE
1.2 Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
1.3 NAAC Track ID	KLCOGN10194
1.4 Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45-56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943-2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

### 3.14 No. of linkages created during this year: **Nil**

### 3.15 Total Budget for Research for current year in lakhs:

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

### 3.16 No. of Patents received this year: **Nil**

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41m <sup>2</sup>	Nil	299.41m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

NET Qualified Students		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student (<i>p.a-per annum, p.m- per month</i>)</b>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on ‘Class Room Management’ by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

1.1 Name of the Institution	MAR ATHANASIUS COLLEGE
1.2 Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
1.3 NAAC Track ID	KLCOGN10194
1.4 Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranajali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45-56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943-2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

**3.14 No. of linkages created during this year: Nil**

**3.15 Total Budget for Research for current year in lakhs:**

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

**3.16 No. of Patents received this year: Nil**

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41m <sup>2</sup>	Nil	299.41m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

NET Qualified Students		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student</b> <i>(p.a-per annum, p.m- per month)</i>	<b>Total amount granted</b>
Higher Education	9	12000/- p. a	1,08,000/-
Hindi Scholarship	2	500/- p. m	12,000/-
State Merit Scholarship	2	1250/- p. a	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- p. a	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- p. a	10,000/-
Sitharam Jindal Scholarship	17	150/- p. m	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on 'Class Room Management' by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on 'Teaching Morality in and out of the Classroom' by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanathi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

1.1 Name of the Institution	MAR ATHANASIUS COLLEGE
1.2 Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
1.3 NAAC Track ID	KLCOGN10194
1.4 Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranajali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45- 56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943- 2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -' <i>Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil</i> ' ISBN-978-93-85105-45-6 – in the Book titled ' <i>Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum</i> ' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgow, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

### 3.14 No. of linkages created during this year: **Nil**

### 3.15 Total Budget for Research for current year in lakhs:

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

### 3.16 No. of Patents received this year: **Nil**

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41m <sup>2</sup>	Nil	299.41m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

NET Qualified Students		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student</b> <i>(p.a-per annum, p.m- per month)</i>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on 'Class Room Management' by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on 'Teaching Morality in and out of the Classroom' by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		<p>5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’.</p> <p>6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.</p>
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	<p>1. Smart Board Familiarization Programme</p> <p>2. ICT Training- “Office Automation”</p> <p>3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri.</p> <p>4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.</p>
j.	Workshops and Seminars	<p>1. One Day lecture on ‘Role of Statistics in Actuarial Science’</p> <p>2. A workshop ‘Social Science Research Methodology’</p> <p>3. A workshop ‘Model making of Mathematical Concepts’</p> <p>4. A National level workshop on ‘Gravitational Waves’</p> <p>5. Campus Bird Count in Association with International</p> <p>6. Backyard Bird Count</p> <p>7. <i>National Science Day</i> ‘Make in India - Science &amp; Technology Driven Innovations’</p> <p>8. <i>World Sparrow Day</i></p>
k.	Management sponsored National Seminars	<p>Seminar Series in Connection with Diamond Jubilee:-</p> <p>Seminar on ‘Education’</p> <p>Seminar on ‘Media’</p> <p>Seminar on ‘Sports’</p> <p>Seminar on ‘History’</p> <p>Seminar on ‘Environment’</p> <p>Seminar on ‘Agriculture’</p> <p>Seminar on ‘Malayalam Literature’</p> <p>Seminar on ‘Women Empowerment’</p> <p>Seminar on ‘Secularism’</p>
l.	Green Campus	<p><i>World Environment Day</i> celebration</p> <p>Bottle Garden</p> <p>Campus cleaning</p>
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	<p>Placement Drive for Life Science students by Episource, a U. S. based company</p> <p>All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’</p> <p>ASAP Orientation</p> <p>Career Development Classes</p>
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	<p>Students Interacted with Smt. Kiran Bedi, IPS</p> <p>Celebrated International Women’s Day</p>

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

*Dr. Aby P. Varghese*  
*Coordinator, IQAC*

*Dr. Densely Jose*  
*Chairperson, IQAC*

# The Annual Quality Assurance Report (AQAR) of the IQAC 2015-2016

## Part – A

### 1. Details of the Institution

1.1 Name of the Institution	MAR ATHANASIOUS COLLEGE
1.2 Address Line 1	KOTHAMANGALAM COLLEGE POST
Address Line 2	KOTHAMANGALAM
City/Town	ERNAKULAM
State	KERALA
Pin Code	686666
Institution e-mail Address	<a href="mailto:mac@macollege.in">mac@macollege.in</a>
Contact No.	04852822378
Name of the Head of the Institution	Dr. Densely Jose
Tel. No. with STD Code	04852822378
Mobile	9495354563
Name of the IQAC Co-ordinator	Dr. Aby P. Varghese
Mobile	09895823469
IQAC e-mail Address:	<a href="mailto:abypvarghese@yahoo.com">abypvarghese@yahoo.com</a>
1.3 NAAC Track ID	KLCOGN10194
1.4 Website Address:	<a href="http://www.macollege.in">www.macollege.in</a>
Web-link of the AQAR:	<a href="http://www.macollege.in/userfiles/aqar_2015-16.pdf">www.macollege.in/userfiles/aqar_2015-16.pdf</a>

### 1.5 Accreditation Details:

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	85	2002	2009
2	2 <sup>nd</sup> Cycle	A	3.22	2010	2015

1.6 Date of Establishment of IQAC : 03/07/2006

1.7 AQAR for the Year : 2015-2016

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

AQAR 2010-11 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2010-11.pdf](http://www.macollege.in/userfiles/aqar_2010-11.pdf))

AQAR 2011-12 submitted to NAAC online on 29<sup>th</sup> September 2012

AQAR 2012-13 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2012-13.pdf](http://www.macollege.in/userfiles/aqar_2012-13.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2013-14.pdf](http://www.macollege.in/userfiles/aqar_2013-14.pdf))

AQAR 2013-14 submitted on 16-06-2015 ([www.macollege.in/userfiles/aqar\\_2014-15.pdf](http://www.macollege.in/userfiles/aqar_2014-15.pdf))

### 1.9 Institutional Status: **Affiliated College**

Type of Institution

Co-education <input checked="" type="checkbox"/>	Men	Women
Urban	Rural <input checked="" type="checkbox"/>	Tribal <input checked="" type="checkbox"/> ( An area with Tribal Concentration (MHRD))

Financial Status

Grant-in-aid	UGC 2(f) <input checked="" type="checkbox"/>	UGC 12B <input checked="" type="checkbox"/>
Grant-in-aid + Self Financing <input checked="" type="checkbox"/>	Totally Self-financing	

### 1.10 Type of Faculty/Programme

Arts <input checked="" type="checkbox"/>	Science <input checked="" type="checkbox"/>	Commerce <input checked="" type="checkbox"/>
Law	PEI (Phys Edu)	TEI (Edu)
Engineering	Health Science	Management
Others (Specify)		

1.11 Name of the Affiliating University : Mahatma Gandhi University, Kottayam

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

University with Potential for Excellence	
DST Star Scheme	UGC-CPE <input checked="" type="checkbox"/>
UGC-Special Assistance Programme	UGC-CE
UGC-Innovative PG programmes	DST-FIST <input checked="" type="checkbox"/>
UGC-COP Programmes	Any other (Specify)

## 2. IQAC Composition and Activities

2.1 No. of Teachers	8
2.2 No. of Administrative/Technical staff	1
2.3 No. of Students	2
2.4 No. of Management Representatives	1
2.5 No. of Alumni	1
2.6 No. of any other Stakeholder and Community Representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of Members	16
2.10 No. of IQAC meetings held	4

### 2.11 No. of Meetings with Various Stakeholders:

	No.
Faculty	4
Non-Teaching Staff	1
Students	1
Alumni	0
PTA	1

2.12 Has IQAC received any funding from UGC during the year?: No

2.13 Seminars and Conferences (only quality related) : 2

### 2.14 Significant Activities and Contributions made by IQAC

- Celebrated the Diamond Jubilee of the College
- Submitted the Self Study Report to NAAC.
- Prepared and submitted proposals for Autonomous Status.
- Organised the visits of Kerala Govt. Expert Committee and UGC expert team for granting autonomous status.
- Prepared academic calendar.
- Planned and implemented extension programmes undertaken by various clubs and forums
- Implemented UGC schemes
- Implemented UGC CPE Phase II

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

	Plan of Action	Outcome
<b>I</b>	<b>Cocurricular Programmes</b>	
a	All Departments submitted proposals to UGC for conducting National Seminars	UGC National Seminars:- 1. 'Organic Farming In India: An Exploration of Opportunities and Prospects.' 2. 'Advanced Functional Materials.' 3. 'Current Trends In Molecular Diagnostics.' 4. 'Marketization of Skills and its Impact on Socio-Cultural Tradition.' 5. UGC sponsored National Conference on 'Technologies Behind Nano Science: Fabrication, Diagnostics and Application.' 6. UGC sponsored Workshop on 'Promotion of Ethics and Human Values' under the Human Rights Education.'
b	All Departments proposed to conduct workshops and Seminars	1. One Day lecture on 'Role of Statistics in Actuarial Science' 2. A workshop 'Social Science Research Methodology' 3. A workshop 'Model making of Mathematical Concepts' 4. A National level workshop on 'Gravitational Waves' 5. <i>National Science Day</i> 'Make in India - Science & Technology Driven Innovations'
<b>II</b>	<b>Outreach Programmes</b>	
a	To commemorate International Days of social importance	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>World Environment Day</i>
b	Extend care for sufferers and special attention to differently abled.	Orphanage Visits. Mid - Day meals distribution. Helping Hand to Natural disaster in Chennai. Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited <i>Akshaparavakal</i> Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam.
c	Life supporting services	Conducted two Blood Donation Camps & Blood group identification camp Blood group directory

<b>III</b>	<b>Faculty Enrichment</b>	
a	Teachers should be given periodical orientation programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
b	To motivate teachers to pursue research	2 minor research projects sanctioned this year, 17 minor research projects and 4 major research projects are ongoing. Faculty improvement programmes availed
<b>IV</b>	<b>Inculcate National Integration</b>	
a	In order to Foster Patriotic fervour and National Integration conduct as many Programmes as we can.	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Secularism Seminar Paid Homage to Dr. A. P. J. Abdul Kalam
<b>V</b>	<b>Value Education</b>	
a	All students be inculcated with moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘THANAL 2015’</i> <i>Swacch Bharat Abhiyan - Cleanliness Drive</i> <i>Hiroshima Day – Poster designing Competition</i> One day awareness programme on ‘Drug Addiction and Involvement of Youth’
b	Professional Fraternity fostering programmes should be conducted	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c	To strengthen alumni support and alumni platform	General Alumni Meet Batch wise reunions
d	Extend Legal education to all	Legal awareness class for students by KELSA
e	Road safety awareness	Seminar on Road Safety <i>Road Safety Week</i> <i>Bodhati 2016 Organised by NSS.</i>
<b>VI</b>	<b>Diamond Jubilee</b>	
a	To celebrate Diamond Jubilee of the College	Seminar Series in Connection with Diamond Jubilee:- Education Seminar – Dr Rajan Gurukkal Literature Seminar - Subhash Chandran Media Seminar – Sri Johny Lukkose, Malayala Manorama Sports Seminar – Olympian P T. Usha. History Seminar – Dr. K. N. Ganesh Environment Seminar – Sri S P Udayakumar Agriculture Seminar – Malayala Manorama

		International Book Exhibition as a part of Diamond Jubilee Celebration 10 Day exhibition on Science, Arts, Commerce, Engineering, Medical, Agriculture etc. 5 Day cultural Festival
<b>VII</b>	<b>Environment Awareness</b>	
a	To create environmental concerns	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning Campus Bird Count in Association with International Backyard Bird Count <i>World Sparrow Day</i>
<b>VIII</b>	<b>Support Programmes</b>	
a	Remedial coaching to all the needy	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
b	To facilitate campus placement programmes	Placement Drive for Life Science students by Episource, a U.S based company. All India IAS Mock Evaluation Test in Media Partnership with 'The Hindu.' ASAP Orientation. Career Development Classes.
c	Empowering the Gender	Student Interaction with Smt. Kiran Bedi. International Women's Day. Seminar on 'Sex, Gender and Parity.' Essay writing competition 'Gender Sensitization.'
d	Personality Development	Workshop on 'Leadership and Career Guidance.' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
e	To generate Entrepreneurial skill	Industrial Visits Entrepreneurship Awareness Camp
<b>IX</b>	<b>Art and Culture promotion</b>	
a	Art and Culture promotion	Literature Reviews :- Malayalam Literary personality Basheer. Hindi Novelist Premchand. 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' <i>Smaranjali</i> -Homage to Sri. ONV Kuruppu. Arts Day. International Film Festival – 'Life in Frames'
b	To send maximum number of students in Arts/Science/Cultural competitions	Students participated in the University Youth Festival

X	<b>Sports Promotion</b>	
a	Effective utilization of infrastructure facilities	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
b	To participate maximum number of students in Athletics, Volleyball, Football championships	Our students performed well in Athletics, Football and Volleyball.
XI	<b>Student Organised Programmes</b>	
a	To inculcate leadership qualities in students	Arts festival College Day Sports Day

### 2.15 Whether the AQAR was placed in Statutory Body

	Yes	No
Management	√	
Syndicate		√
Any other body		√

Provide the details of the action taken

The executive committee of Mar Athanasius College Association discussed and approved the AQAR 2015-2016. The committee also perused the plan of action for 2016-2017 and granted permission to implement the programme.

## Part – B

### Criterion – I 1. Curricular Aspects

#### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of Programmes added during the year	Number of self-financing Programmes	Number of value added / Career Oriented Programmes
Ph. D	4	Nil	Nil	Nil
PG	16	Nil	9	Nil
UG	13	Nil	1	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	2	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
<b>Total</b>	35	Nil	10	Nil

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option/Open options  
(ii) Pattern of Programmes:

Pattern	Number of Programmes
Semester	29

1.3 Feedback from Stakeholders: Alumni ✓ Parents ✓ Employers ✓ Students ✓

Mode of feedback: Manual ✓

This academic year onwards, students' feedback system was converted to online.

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects:

**Nil**; In affiliation system, periodical revisions are being done by the parent University.

1.5 Any new Department/Centre introduced during the year. If yes, give details- **No**

**Criterion – II**  
**2. Teaching, Learning and Evaluation**

**2.1 Total No. of Permanent Faculty**

Total	Asst. Professors	Associate Professors	Professors	Others
74	57	17	Nil	8

**2.2 No. of Permanent Faculty with Ph. D. : 34**

**2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year**

Asst. Professors		Associate Professors		Professors		Others		Total	
4	1	Nil	Nil	Nil	Nil	R	V	4	1

**2.4 No. of Guest and Visiting faculty and Temporary faculty**

Visiting Faculty	Nil
Temporary	Nil
Guest Lecturers	2
FIP	6

**2.5 Faculty participation in Conferences and Symposia:**

No. of Faculty	International Level	National Level	State Level
Attended Seminars/ Workshops	-	Seminars 16, Workshops 16	-
Paper Presentations	4	10	2
Resource Persons	-	-	7

**International Level Paper Presentations**

**Riju C Issac, Dept. of Physics:** Presented a paper on “Nano-structured Thin Films of ICF Target Chamber Interiors” at IAEA, Vienna.

**Dr. Binitha R. N., Dept. of Zoology:** Presented a paper on “Antioxidant and Food Preservative, Butylated Hydroxy Anisole (BHA) as an Endocrine Disruptor affects Male Gonad Development and Reproduction in *Anabas testudineus*”. International Symposium on Comparative Endocrinology and Integrative Physiology, 2015.

**Litha Mary Issac, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Feba Kurian, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on “Aspiring Women Entrepreneurs – Motives and Perceived Problems” at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

**Jini Thomas, Dept. of Commerce:** Participated in a UGC sponsored International Seminar on ‘Aspiring Women Entrepreneurs – Motives and Perceived Problems’ at St. Peter’s College, Kolenchery on 8 and 9 January, 2016.

### **National Level Paper Presentations**

**Manjula K, Dept. of Economics:** Presented a paper on ‘Internal Displacement in Kerala’ in a National Seminar at St. Josephs College, Devagiri, Calicut on 28 March, 2015.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Opportunities and Challenges of Wetland Tourism in the Tourism Scenario of Kerala’ in a UGC sponsored National Seminar on the Rural Tourism, Economic Development and Employment’ at Marian College, Kuttikanam on 29 and 30 March, 2016.

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘An Approach to Attain Sustainable Wetland Tourism in Kerala’ in a UGC sponsored National Seminar on the ‘Tourism and Sustainable Development in India - Ecological Perspectives and Issues’ conducted by Department of Economics Newman College, Thodupuzha on 22 and 23 September 2015.

**Sini K. S, Dept. of English:** Presented a paper titled ‘Half-baked Skills: Culture or Cultural Threat’ in the National Seminar on ‘Marketisation of Skills and its Impact on Socio-Cultural Traditions’ at Mar Athanasius College on September, 2015.

**Jessy Varghese, Dept. of English:** Presented paper titled ‘Marketisation of Socio-Linguistic Skills through Globalisation: A New Paradigm’ in a UGC sponsored National Seminar organized by the Department of Sociology, Mar Athanasius College, Kothamangalam on 3 and 4 September, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Defining the Language of Plural Sensory Descriptions in Salaryman Project: A Study of Bruno Quinquet’s Postmodern Photography’ in a UGC sponsored National Seminar organized by Newman College, Thodupuzha on 11 and 12 August, 2015.

**Jessy Varghese, Dept. of English:** Presented a paper titled ‘Internet Urban Legends: A New Mythography’ in a DCE sponsored National Seminar organized by Department of English, T. M. Jacob Memorial College, Manimalakkunnu in November, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘On the Interesting Electrical Properties of Polyaniline Doped with Different Acids’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’ at St. John’s College, Anchal, Kerala, India on 15 and 16 October, 2015.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Role of ZnO/ZnS Particles in the Gas Sensing Properties of their Polyaniline Composites’ in a UGC sponsored National Seminar on ‘New Horizons in Spectroscopy’, 15-16, October 2015, St. John’s College, Anchal, Kerala, India.

**Francis Xavier, Dept. of Physics:** Presented a paper titled ‘Highly Conducting Polyaniline Thin Films as Promising Material for Ammonia Gas Sensor’ in a UGC sponsored National Seminar on Advanced Functional Materials (AFM)’ at Mar Athanasius College, Kothamangalam, Kerala, India, on 15 and 16 September, 2015.

### **State Level Paper Presentations**

**Sheeba Abraham, Dept. of Economics:** Presented a paper titled ‘Wetland Tourism in Kerala and Sustainable Development’ in a UGC sponsored State level Seminar on ‘Sustainable Tourism Issues, Challenges and Prospects’ conducted by Department of Economics St. Stephen’s College, Uzhavoor, on 12 and 13 August, 2015,.

**Jinu John, Dept. of Hindi:** ‘Civil Military Relations in Indian Literature’ at M. E. S. Asmabi College, Kodungallur, on 18 and 19 September, 2015.

### **Workshop Participation**

**Binitha R. N. Dept. of Zoology:** Attended the International Workshop on ‘Comprehensive Toxicology’ by Association of Toxicology at Bangalore on 27 to 31 July 2015.

**Binitha R. N. Dept. of Zoology:** Hands on Workshop for Handling and Care of Laboratory Animals organised by CPCSEA at School of Life sciences at JNU on 14 to 16 February, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the six day ISTE sponsored Faculty Development Programme on ‘Art of Effective Teaching’ conducted by Mar Athanasius College of Engineering, Kothamangalam, on 4 to 9 July, 2016.

**Saritha K Nair, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam in collaboration with IUCA, Pune, 28 December 2015 to 1 Jan 2016.

**Saritha K Nair, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 30 November to 2 December 2016.

**Riju C Issac, Dept .of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December 2015 to 1 January 2016.

**Riju C Issac, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune on 28 December, 2015 to 1 January, 2016.

**Smitha Thankachan, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Jassi J, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Jassi J, Dept. of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Anu Avarachan, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M. A. College, Kothamangalam, in collaboration with IUCA Pune, 28 December, 2015 to 1 January, 2016.

**Anu Avarachan, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Krishna Prasad, Dept of Physics:** Attended the National School on Gravitational Waves organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 28 December, 2015 to 1 January, 2016.

**Krisna Prasad, Dept. of Physics:** Attended the introductory workshop on ‘Solar AstroPhysics’, organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November – 2 December, 2016.

**Francis Xavier, Dept. of Physics:** Attended the National School on ‘Gravitational Waves’ organised by M.A. College, Kothamangalam, in collaboration with IUCA ,Pune, 2015 December 28 -1 January, 2016.

**Francis Xavier, Dept of Physics:** Attended the introductory workshop on ‘Solar Astro Physics’ organised by M. A. College, Kothamangalam, in collaboration with IUCA, Pune, 30 November to 2 December, 2016.

**Francis Xavier P A, NSS Programme Officer:** Attended a workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala on 25 February, 2016.

### **Conferences Participation**

**Dr. Riju C Issac, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A College, Kothamangalam, 22 and 23 January, 2016.

- Dr. Riju C Issac, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National seminar on Advanced Functional Materials, Mar Athanasius College, 15 and 16 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Seminar on Recent Trends in Hybrid Material Research, Newman College, 5 August, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Dr. Smitha Thankachan, Dept of Physics:** International Conference “Cochin Nano 2016” organised by CUSAT 2016.
- Dr. Smitha Thankachan, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Saritha K Nair, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College, Kothamangalam, 22 and 23 January, 2016.
- Jassi J, Dept of Physics:** UGC Sponsored National Seminar at D. B. College, Thalayolapparambu on 9 and 10 July, 2015.
- Jassi J, Dept of Physics:** Interactive, Engagement and Effective Classroom Communication Organised by IQAC, Mar Athanasius College, 19 September, 2015.
- Krishna Prasad, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M.A. College Kothamangalam, 22 and 23 January, 2016.
- Francis Xavier, Dept of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Anu Avarachan, Dept. of Physics:** UGC sponsored National Conference on Technologies behind Nanoscience: Fabrication, Diagnostics and Applications organized by M. A. College Kothamangalam, 22 and 23 January, 2016.
- Sajin Paul, Dept. of Commerce:** Participated in a UGC sponsored National Seminar on ‘Corporate Social Responsibility- Commercial View’ S H College, Chalakkudy on 6 and 7 August, 2015.

**Sajin Paul, Dept of Commerce:** Participated in a UGC sponsored National Seminar on 'Why Entrepreneurs are Important to the Economy' at Mar Thoma College for Women, Perumbavoor on 3 and 4 December, 2015.

### **NSS Orientation Programme**

**Francis Xavier P A, NSS Programme Officer:** Attended the orientation programme for Programme Officers at Empaneled Training Institute, Rajagiri College of Social Sciences Kalamassery, Ernakulam from 18 – 24 January, 2016.

### **NSS National Integration Camp**

**Radhamoni Amma P L, NSS Programme Officer:** Attended the National Integration Camp at Vidyanagri Campus, University of Mumbai, Santacruz East, Mumbai – 400 08 from 28 June, 2015 to 4 July, 2015.

**2.6** Innovative processes adopted by the institution in Teaching and Learning: **Nil**

**2.7** Total Number of actual teaching days during this academic year: **180**

**2.8** Examination/ Evaluation Reforms initiated by the Institution

- Examinations/Evaluations are conducted as per the instructions of the Mahatma Gandhi University, Kottayam.

**2.9** No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

- Three teachers are representing the PG Board of Studies, Mahatma Gandhi University, Kottayam
- Six teachers are representing the UG Board of Studies, Mahatma Gandhi University, Kottayam

**2.10** Average percentage of attendance of students: **85%**

## 2.11 Course/Programme wise distribution of pass percentage:

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C+	C	D	Pass %
1	English	40	33	-	1	8	8	12	4	-	82.5
2	Economics	35	24	-	-	5	10	5	4	-	68.6
3	Hindi	27	23	-	-	7	6	5	5	-	85
4	Sociology	36	34	-	1		12		20	1	94.4
5	History	39	31	-	-		7	15	6	3	79.5
6	Physics	23	15	-	1	3	4	2	5	-	65.2
7	Chemistry	35	32	1	5	18	6	2		-	91.4
8	Botany	31	25	-	2	7	9	2	5	-	80.7
9	Zoology	27	26	-	-	4	11	7	3	-	92.6
10	Statistics	33	32	-	1	5	7	6	6	-	78.1
11	Mathematics	28	21	-	5	8	3	5		-	75
12	Commerce	45	44	-	4	19	12	5	4	-	97.8
13	B Com Taxation	39	39	-	4	17	10	7	1	-	100

### PG Results

Sl No	Subject	Appeared	Passed	A+	A	B+	B	C	C+	D	Pass%
1	English	11	7	-	-	4	2	1	-	-	63.64
2	Economics	10	5	-		2	3		-	-	50
3	Physics	15	10	-	-	1	8		1	-	66.67
4	Mathematics	15	11	4	3	4	-	-	-	-	73.33
5	Chemistry	11	5	-	2	3	-	-	-	-	45
6	M Com	14	10	-	-	8	2	-	-	-	71.43
7	Microbiology	13	10	-	-	3	7	-	-	-	77
8	Biotechnology	13	9	-	2		7	-	-	-	69
9	Biochemistry	12	6	-	-	2	4	-	-	-	50
10	Zoology	10	10	-	-	4	4	-	-	2	100
11	Actuarial Science	4	4	-	1	3	-				

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## University Positions 2015

Name	Position	Subject
Niva Jose	First	B.Sc. Statistics
Sreethu Paul	Second	B.Sc. Statistics
Sreelakshmi Premkumar	Third	B.Sc. Statistics
Blessen T. Sam	Third	B. A. Sociology
Meenu Eldhose	Third	B. Sc. Chemistry
Ann Gigi George	Second	M. Sc. Mathematics
Arya C G.	Second	M. Sc. Chemistry
Noble T Baby	Second	M. Sc. Microbiology

**2.12** How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Teacher evaluation by student feedback
- Monitoring the academic progression of students
- Maintenance of class room/lab infrastructure
- Adhering to the Academic Calendar

**2.13** Initiatives undertaken towards faculty development

Faculty/Staff Development Programmes	Number of Faculty benefitted
Refresher Courses	2
UGC – Faculty Improvement Programmes	6
Orientation Programmes	4

Name of faculty	Department
<b>Orientation</b>	
Smt. Diana Mathews	Sociology
Dr. Binitha R N	Zoology
Jinu John	Hindi
Minnu Mathew	English
<b>Refresher Course</b>	
Alphonsa C.	English
Seena John	Malayalam
<b>FIP</b>	
Asha Mathai	Malayalam
Diana Ann Issac	Commerce
Deepa G	Physics
Marymol Moothedan	Chemistry
Sheeba Abraham	Economics
Susan Ray Joseph	Mathematics

## 2.14 Details of Administrative and Technical Staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of Permanent Positions filled during the Year	Number of positions filled Temporarily
Administrative Staff	38	5	Nil	Nil
Technical Staff	1	Nil	Nil	Nil

**Criterion – III**  
**3. Research, Consultancy and Extension**

**3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the Institution**

- Creation and Maintenance of laboratory infrastructure
- Mobilize teachers to avail minor and major research projects
- Research Committee to monitor the research activities
- Availed UGC-CPE
- Cash incentives for research publications

**3.2 Details regarding major projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	3	Nil	Nil
Outlay - Rupees in Lakhs	Nil	63.40	Nil	Nil

**3.3 Details regarding minor projects**

	Completed	Ongoing	Sanctioned	Submitted
Number	14	18	2	Nil
Outlay in Rs. Lakhs	13.61	23.16	1.15	Nil

Duration	Name of Principal Investigator	Title	Amount Sanctioned by UGC
2013-14	Jani Chungathu	History in the Palms: A Snapshot from the Palm Leaves of the Churches in Kerala	1,00,000/-
2013-14	Remia K.	Devakoothu: Women in Cultural History of North Malabar	95,000
2013-14	Puthuma Joy	Impact of new generation jobs on traditional agriculture: A case study of Ernakulam District	90,000/-
2013-14	Benny Jacob	Cytomorphological, Anatomical and Ethanomedicinal studies on Giant Fern ( <i>Angiopteris evecta</i> ) from Kerala	1,35,000/-
2013-14	Krishnaprasad P. S.	Development of Nanostructured Materials for Gas Sensor Applications	1,50,000/-
2013-14	Jassi J.	Natural Dyers as Light Harvesters in Dye Sensitized Solar Cells	1,31,000/-
2013-14	Anu George	Literature and Environment: An Ecocritical Reading of	50,000/-

		Mahasweta Devi's 'Arjun'	
2013-14	Reeba Thomas	A Time Tunnel to Historical Rediscovery: Historiographic Metafiction in the novels of Margaret Atwood	50,000/-
2013-14	Nayomi John	Isolation, Identification and Characterization of Hydrocarbon Degrading Bacteria- A Bioremediation Tool	1,40,000/-
2013-14	Jinu John	Political Expressions in the Novels of Bhagavaticharan Verma.	1,20,000/-
2014-15	Aby P. Varghese	Odonate diversity of National parks and wildlife sanctuaries in Idukki district, Kerala	75,000/-
2014-15	Siju Thomas T.	Phytochemical Characterization of <i>Justica plumbaginifolia</i> JACQ and <i>Desmodium motorium</i> L	3,65,000/-
2014-15	Jini Thomas	Role of Micro Entrepreneurs in Kerala	1,30,000/-
2014-15	Justina George	Exploring the Underlying Patterns of Human Mind: A Psychoanalytic Study of Alice Munro's Short Stories.	1,30,000/-
2014-15	Rajesh K. Thumbakara	A generalized graph and fuzzy graph structures	2,75,000/-
2014-15	Sini K S	Rising from Flames: A Panoramic View of Dalitayam in Indian Epics	1,45,000/-
2014-15	Diana Mathews	Changing Power Structure in Dual Career Nuclear Families- A Study in Ernakulam District, Kerala	75,000/-
2014-15	Seena John	Female Body and its Narration in Malayalam Short Stories.	60,000/-
2015-16	Manjula K.	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian	Internet marketing of tourism in Kerala	70,000/-
Total			24,31,000/-

### 3.4 Details of research publications

#### Research Publications of Teachers and Students- 2015-2016

SI No.	Authors	Citation index	Impact factor	SJR	SNIP
1	Latha S. Nair	IJRDO- Journal of Mathematics 2,2 11-24 (2016)			
2	Bince Mathew	International Journal of Social Science and Interdisciplinary Research, 5,1, 50-56 (2016)			
3	Manju Kurian	Journal of Chemical Sciences (in press)	1.224	0.415	0.692
4	Manju Kurian	Journal of water process engineering, 8, 37-49, 2015	-	-	-
5	Manju Kurian	Journal of Advanced Ceramics, 4 (3), 1-7, 2015			
6	Manju Kurian	Journal of Environmental Chemical Engineering, 4,1359-1366, 2016			
7	Manju Kurian	Nano-Structures & Nano-Objects,1, 15-23, 2015			
8	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue I,ISSN 2349-4808, 07-18, 2015	-	-	-
9	Eldhose A. M.	Academic Research in Science, Engineering Art and Management Vol.2 Issue 1, ISSN 2349-4808, 45-56, 2015	-	-	-
10	Eldhose A. M.	IFRSA Business Review Vol.5, Issue I, ISSN, 2249-5444, 2015	1.489	0.936	1.418
11	Puthuma Joy	International Journal of Informative and Futuristic Research 3,8 2943-2948(2016)			
12	Krishnaprasad P. S.	Journal of Applied Physics,117,124102,2015			
13	Saritha K. Nair	Physical Review B, 93,64510,2016			
14	Basil P. Mathew	Asia Pacific Journal of Marketing and Management Review, 5,11, 8-18 (2016)			

15	Susan Ray Joseph	On cayley graphs of solvable groups: Tajopaam; Volume XIV, Number 2; December 2015; Pages 181 - 186			
16.	Asha Mathai	'Puthu kavithayude manveeru', Grandha Lokam February 2015, Journal of Kerala State Library Council, Thiruvananthapuram.			
17	Asha Mathai	'Kavithayile Pennadayalanga' Sargasudha Malayalam Masika, February 2015, ISSN-Journal, 2277-5714, Thiruvananthapuram.			
18	Asha Mathai	'Jeevithathilninneduthathu' Interview with P.Valsala Koodu Masika ISSN-9-772348-281403 July 2015, Thrissur			
19	Asha Mathai	'Kadhayile idavum keezhala padanagalum' Oruma Masika, ISSN-23201568 February 2016, Thiruvananthapuram			
20	Asha Mathai	Chapter -'Sthrina kamanakalum Prethishedhangalum P.Valsalayude novelil" ISBN-978-93-85105-45-6 – in the Book titled 'Adichamarthapetta sthriathayude mudrakal sahithyathilum cinemayilum' Published by L. F. College, Guruvayur.			
21	Harry Benny	Effect of Plyometric Training and SAQ Training Followed by Detraining on Agility of Intercollegiate level Footballers. <i>International Journal of Physical Education, Fitness and sports</i> , Vol. 4, No. 2, June 2015.	1.937		

### 3.5 Details on Impact factor of publications:

Impact Factor Range	1.224-1.937
Average Impact Factor	1.3565
h-index	-
Nos in SCOPUS	-
SJR	0.6755
SNIP	1.055

**3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations**

2015-16	Manjula K., Dept. of Economics	Domestic Consumption of Energy in Ernakulam District -A Rural Urban Comparison	45,000/-
2015-16	Feba Kurian, Dept. of Commerce	Internet Marketing of Tourism in Kerala	70,000/-

**3.7 No. of books published: Nil**

**3.8 No. of University Departments receiving funds: Nil**

**3.9 For colleges**

Autonomy	Yes
CPE	Yes
DBT Star Scheme	-
INSPIRE	-
CE	-
DST-FIST	Yes
Any Other (specify)	-

**3.10 Revenue generated through consultancy: Rs. 50,900/-**

**3.11 No. of Conferences organized by the Institution**

Level	International	National	State	University	College
Number	-	7	1	-	12
Sponsoring Agencies	-	UGC/IUCAA	College	-	College

**National, State Level and College Level Seminars organised by the College**

- A UGC sponsored National Seminar was conducted by the Department of Biotechnology 8 and 9 October, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Economics on 'Organic Farming in India- An Exploration of Opportunities and Prospects' on 10 and 11 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Marketization Skills and its impact on Socio-cultural Traditions' on 3 and 4 September, 2015.
- A UGC sponsored National Seminar was conducted by the Department of Sociology on 'Promotion of Ethics and Human Values' on 5 to 7 February, 2016.

- A UGC sponsored National Seminar was conducted by the Department of Chemistry in association with the KSCSTE on ‘Advanced Functional Materials’ on 14 and 15 September, 2015.
- A UGC sponsored National Workshop on ‘Technologies behind Nanoscience: Fabrication Diagnostics and Applications’ on 22 and 23 January, 2016.
- A National Workshop on ‘Gravitational Waves’ was conducted by the Dept. of Physics in association with the IUCAA, Pune, and IRC-CUSAT on 28 December, 2015 to 01 January, 2016.
- A one day State level workshop was organised by the Dept of Mathematics on ‘Concepts and Models in Mathematics and Statistics’ on 3 December, 2015.
- A one day lecture on ‘Role of Statistics in Actuarial Science’ conducted by the Dept. of Actuarial Science.
- A workshop on ‘Social Science Research Methodology’ conducted by the Dept. of Sociology.
- A state level seminar in connection with the *National Science Day* on ‘Make in India - Science & Technology Driven Innovations’
- State Level Seminars Organised by the College Management in connection with the Diamond Jubilee Celebrations during 27 December 2015 to 2 January 2016:-
  - a) Seminar on ‘Agriculture’
  - b) Seminar on ‘Education’
  - c) Seminar on ‘Media’
  - d) Seminar on ‘Secularism’
  - e) Seminar on ‘History’
  - f) Seminar on ‘Literature’
  - g) Seminar on ‘Environment Conservation’
  - h) Seminar on ‘Sports’
  - i) Seminar on ‘Women Empowerment’
- College Level Workshops organised by the IQAC:-
  - a) A one day Workshop on ‘Class Room Management’
  - b) A one day ‘NAAC Familiarization’ programme for the Teaching and Nonteaching staff members.
  - c) A Workshop on ‘Teaching Morality in and out of Class Rooms’
  - d) An ICT orientation workshop on ‘Smart Board’

**3.12** No. of faculty served as Experts, Chairpersons or Resource Persons:

**Riju C Issac, Dept. of Physics:** Resource person in the state level seminar in connection with International Year of Light organized by Department of Electronics, B P C College, Piravom, in association with APT, Kerala and SPIE CUSAT held on 28 January, 2016.

**Krishna Prasad, Dept. of Physics:** Invited Speaker at National Workshop on ‘Material Characterization Tools’ conducted by the Department of Physics, CUSAT, on 19 to 21 March, 2015.

**Krishna Prasad, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Resource person in the 'District level Teachers Training Programme of National Children's Science Congress 2015' organised under the coordination of KSCSTE at Aluva on 5 August, 2015.

**Aby P. Varghese, Dept. of Zoology:** Observer for Central Board of Secondary Examinations at Ilahia Public School, Muvattupuzha, March, 2015.

**Aby P. Varghese, Dept. of Zoology:** Member of the statutory Staff Selection Committee constituted for the teaching staff in Mar Athanasius College, Kothamangalam during 2015.

**Siju Thomas T., Dept. of Botany:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Aby P. Varghese, Dept. of Zoology:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

**Francis Xavier, Dept. of Physics:** Jury, Revenue District School Science Fair at SRV Higher Secondary School, Ernakulam 11 and 12 November, 2015.

**Francis Xavier, Dept. of Physics:** Jury, Sub-district science fair, Kothamangalam 19 October, 2016.

### 3.13 No. of Collaborations

- Collaborative research between Dr. Riju C. Issac, Department of Physics and Prof. A V. Jaroszynski and Dr. S. Cippiccia of the Department of Physics, University of Strathclyde in Glasgou, Scotland, UK
- The College has Memorandum of understanding (MOU) with Kerala Agricultural University, Thrissur.
- Rajiv Gandhi Centre for Bio-Technology (RGCB), Thiruvananthapuram
- An MOU was signed with Arjuna Natural Extracts Ltd, Aluva for monitoring the affluent discharge regularly.

### 3.14 No. of linkages created during this year: Nil

### 3.15 Total Budget for Research for current year in lakhs:

From funding agency (Newly sanctioned)	1.15
From Management of the College	-
Total	1.15

### 3.16 No. of Patents received this year: Nil

**3.17** No. of research awards/ recognitions received by faculty and research fellows of the institute in the year: Nil

**3.18** No. of faculty from the Institution who are Ph. D. Guides and students registered under them:

Ph. D. Guides	19
Total number of research scholars	42
Students registered during the year	Nil
Ph. Ds Awarded	4

**Details of Research Guides, Research Scholars, Ph. Ds Awarded, Thesis Submitted and Pursuing Research during 2015-16**

**Research Centre in English**

SI No.	Name of Research Scholar	Topic
	<b>PhD Awarded</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
	Priya Jose K.	Society in the ' <i>Kathasaritsagara</i> '.
	Saumi Mary M.	Charting the Cultures in Conflict: A Study of the Caribbean Culture as Reflected in Jean Rhy's 'Wide Sargasso Sea' and Phyllis Shand Allfrey's 'The Orchid House'.
	<b>Research in Progress:</b>	
	<b>Guide: Dr. V Nithyanantha Bhatt</b>	
1	Rosa Juju Joseph C. (Thesis Submitted)	Constructing the Female Subject: Women in the Works of Post- Independence Indian English Women Poets.
2	Jessy James	The Image of the Mirror: The Mother Daughter Plot in Selected Post- Independence English Fictional Writings by Women.
3	Lima Antony	Gerard Manley Hopkins and Indian Poetics.
4	Sreeja M.	Translating Indulekha: The English Renderings in the Historical and Cultural Contexts: A Comparative Perspective
5	Rahul N.	Mixing Memory and Desire: Dhvani and Lacanian Psychoanalysis in T.S Eliot's Poetry.
6	Ramesh K. G. (Thesis submitted)	Between the Indomitable East and the Irresistible West: A Critique on the Narration of Turkey's Cultural Ambivalence in the select Novels of Orhan Pamuk.
7	Jisha John	Exploring the Facets of Globalization: A Reading of the Select Works of Hari Kunzru, Zadie Smith, Monica Ali and Chetan Bhagat.

8	Alphosa C. A.	Representational Politics in <i>Aithiyamala</i>
<b>Guide: Dr. D. Radhakrishnan Nair</b>		
9	Shima Mathew	Time, Shapes: Italo Calvino's "If on a Winters Night- A Traveller" and David Lodge's "Small World".
10	Amitha. P. Mani	Comparative Narrativity in Daniel Defoe's <i>Robinson Crusoe</i> and J. M. Coetzee's <i>Foe</i>
11	Seethal	Landscapes of Resonance and Resistance: an Eco critical Reading of Select Novels of Sarah Joseph
<b>Guide: Dr. Shibu Simon</b>		
12	Correya Blazy	Conception and Reception: A Symbiotic Interface between Mahaswetha Devi and Gayatri Chakravorty Spivak.
13	Bindu Joseph	Politics of Gender and Race: A Study of the Works of Ruth Praver Jhabvala and Meena Alexander.
14	Sarojini Sudha	From Oppression to Optimism through Self-spun Philosophy- A Comparative Reading of the Fictional Output of Maya Angelou and Bama.
15	Mini M. Abraham	Perceiving the Missing Link: Strategies towards Developing Focused Listening Skills for Enhanced English Language Learning among Undergraduate Learners in Kerala
16	Viju M. J.	Application of ICT in Communicative Language Learning
<b>Guide: Dr. Jose George</b>		
17	Vikas Paulose	Figures of Speech in Motion Pictures: A Reading of Adoor Gopalakrishnan's Films

### Research Centre in Chemistry

<b>Research in progress</b>		
<b>Guide: Shirly. K. B.</b>		
18	Marymol Moothedan	Synthesis, Characterisation and Catalytic Application of Nanolanthana and its Mixed Oxides.
<b>Guide : Manju Kurien</b>		
19	Divya. S. Nair	Development of Nanoferrite Catalysts for Abatement of Persistent Organic Pollutants in Water.
20	Kavitha. S	Synthesis, Characterisation and Green Chemical Applications of Transition Metal Pillared Clay Catalysts.
21	Christy Kujachan	Synthesis, Surface Properties and Green Chemical Applications of Nanoceria Based Catalysts.

### Research Centre in Physics

	<b>Ph. D Awarded:</b>	
	Guide: Dr. Boban Thomas	
	Benoy Skariah	Characterisation of Semiconductor Oxide Films for Sensing Organic Gases.
	<b>Research in Progress:</b>	
22	Anisha Joseph	Gas Sensing Properties of Doped Tin Oxide Thin Films: Influence of Micro- Structural Features.
23	Deepa K.	Gas Sensing Properties of Non-Noble Metal Doped Tin Oxide Thin Films
24	K. Prassannakumari	Microstructural Aspects in Gas Sensing Properties of Doped Tin Oxide Thin Films.

### Research Centre in Economics

	<b>P h. D Awarded</b>	
	<b>Guide: Dr. Sheela Varghese</b>	
	Eldhose A. M.	Health Insurance Among the Unorganised Workers- Need for the Insurance.
	<b>Research in Progress</b>	
	<b>Guide: Dr. Leena George</b>	
25	Jayalakshmi K.	An Economic Analysis of Quality of Higher - Education with Special Reference to Professional Colleges in Kerala
26	Jisha K. K	Over Dues Problems of Farm Credit in Palakkadu District- Comparison Between Cultivators in Irrigated and Drought Prone Area.
27	Sumitha Franklin	Industrial Clustering – A Case Study of Brick Industry in Ernakulam District.
28	Ligi George	Implications of Health Tourism in Kerala
	<b>Guide: Dr. M.S.Vijayakumari</b>	
29	Dannis Joy	Health Expenditure and its Impact on Health Status and Standard of Living: A study among the Marginalised Sector
30	Deepa Abraham	Health Insurance Measures of Unorganised Workers of Kerala. A Case Study of Pineapple Cultivation
31	Nimisha. C. Nair	Exchange Rate Volatility and the Role of RBI
32	Vincy Vijayan	Intermigrant Workers and Social Security Measures in Kerala: A Study on

		Construction Workers in Perumbavoor Municipality in Ernakulam District.
33	Sijitha P. B.	Impact of Sand Mining and the Livelihood of the local People- A Study of river Periyar in Kerala.
34	Renuka K.	Women Empowerment of Education: Comparison between General Education and Professional Education
<b>Guide: Dr. Manjula K.</b>		
35	Suresh Babu	Public Works Programme and Rural Development in Kerala with special focus on NREGA
36	Meera R.	Impact of Chit funds on Households- A Study Based on Thrissur and Ernakulum Districts of Kerala.
37	Arun Kumar T. A.	Impoverishment risks and the status of rehabilitation of the development – induced displaced in Kerala.
38	Soumya V. S.	Food Security and Food Grain Subsidy in Kerala
39	Rani. S. Mohan	Financial Performance of KSEB- A Critical Analysis
40	Puthuma Joy	Economics of Nutmeg Cultivation
41	Diya Phillip	Infrastructure Development of Kerala- An Impact Analysis of KSTP Project
42	Ligi Maliekkal	Casualization and Feminisation of work in the unorganized tertiary sector - A Study among the women working in the shops and commercial establishments in Kerala.

**3.19** No. of Ph. D. awarded by faculty from the Institution: **2**

**3.20** No. of Research scholars receiving Fellowships (Newly enrolled + Existing ones)

JRF	1
SRF	Nil
Project Fellows	4
Any other	Nil

**3.21** No. of students participated in NSS events:

**Camps attended by Volunteers**

- A training programme on Carry Bag Making in connection with Environmental Day organized by St. Teresa's College, Ernakulam, on 5 June, 2015
- Volunteer Secretaries Training Camp at B. K College, Amalagiri, on 19 - 21 June, 2015

- Intercollegiate Leadership Training at St. Xaviers College, Aluva, on 13 October, 2015.
- Caricature Workshop and Seminar on Health & Hygiene at St. Xavier's College, Aluva, on 15 October, 2015.
- “Sargotsav” held at Newman College, Thodupuzha, on 20 February, 2016.
- “NSS Suchithwa Fest” conducted by St. Xaviers College, Aluva.
- PowerPoint Presentation Competition conducted by Morning Star College for Home Science, Angamaly, on October 15, 2015.
- Quiz Competition on Freedom Struggle conducted at Marthoma College for Women, Perumbavoor, on 6 November, 2015
- Intercollegiate camp on Women’s Security and Practical Measures organized by Nirmala College, Muvattupuzha, on 29-31 January, 2016.
- Workshop on Digital India conducted by National e Governance division, Govt. of India at Mahatma Gandhi University Kottayam, Kerala, on 25 February, 2016.

**3.22** No. of students participated in NCC events:

Name of the Cadet	Class and Subject	Camp Attended
1. Alex M. George 2. Jeby Eldho 3. Niya Maria Benny	I B. Sc. Physics I B. Sc. Zoology I B. A. Economics	National Integration Camp at Warangal, Andhra Pradesh
1. Amal T. R. 2. Aneeshmon P. S. 3. Kiran Ganesh 4. Kiran Sasidharan	I B. Com. Computer I B.Com. Computer I B Sc. Mathematics I B Sc. Physics	Army Attachment Camp at Pangode, Trivandrum
Eldhose C. T.	II B.Com Computer	National Integration Camp at Silchar, Assam
Antony Joseph	I B. Sc. Statistics	National Trekking Camp at Kulamavu, Idukki
Deepak. A. S	III B. Sc. Chemistry	SSB Training at Kamptee, Nagpur
Anitta Cyril	III B. Sc. Physics	Nilgiri Trek

**3.23** No. of Awards won by NSS:

- The College has been selected as one of the best NSS unit by the Mahatma Gandhi University, Kottayam in 2015.
- Radhamaniamma P. L. has been awarded the Best Programme Officer for the year.

**3.24** No. of Awards won in NCC: **Nil**

**3.25** No. of Extension activities organized: **19**

**3.26** Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

The College gave thrust in this academic year for the conduct of Diamond Jubilee celebrations of the College (VAJRA 2K15) in a befitting manner. An International Science, Technology and Cultural Exhibition as a part of the VAJRA 2K15 for ten days started on 26 December, 2015. The exhibition was successful by the active participation of students, teachers, alumni and the common people from far and wide. The exhibits of various Departments of the College provided knowledge and entertainment to ignite the minds of students and scholars on various subjects. The major attractions of the exhibition were:-

#### **Departments of Mathematics and Statistics**

- Giant pineapple explaining fibonacci series
- Model of tree exhibiting the applications of statistics in diversified fields
- Robotics and visual display of various types of robots
- Konigsberg bridge problem
- Brachistochrone problem
- Display of different generation calculators
- Mind blowing puzzles and games
- Visual display of Geogebra software
- Portraits of famous mathematicians and statisticians
- Optical illusions

#### **Department of Chemistry**

- Big bang - a reverse journey to the origin of the earth
- Chem magic- ice bomb, colouring with water, fire without match sticks, flaming paper, fortune teller, magic rose, flaming flask, vanishing beauty, blowing magic, elephant toothpaste, Christmas sparkles, dancing vermicelli etc.
- Chemistry in everyday life- cleaning items like detergents, dish wash and hand wash prepared by the students were available on the sales counter in a reasonable rate.
- A stall highlighting the applications of chemistry in everyday life - methods to find out food adulteration, extraction of essential oils from natural products, silvering, and polymer display are some of the attractions.

#### **Department of English**

- The Globe theatre - A miniature of the Globe theatre where the plays of the great playwright William Shakespeare were performed.

#### **Department of Sociology**

- A time machine was constructed in order to familiarize everybody on the life of primitive man to the modern man. It also gave an awareness about the synthetic pollutants on earth.

#### **Department of Zoology**

- A giant human body depicting the working of internal organs
- Model exhibits related to human evolution
- Number of invertebrate and vertebrate specimens
- Photo exhibition of Dragonflies and Damselflies of Kerala

#### **Department of History**

- *The Royal Spice Route* - an installation piecing together the broken past spice route.
- Exhibition of old Kerala household articles such as measuring objects, utensils, agricultural implements, coins and currencies, Holy books, ceremonial objects, palm leaves, old electronic equipments etc.
- Poster Exhibition related to educational values, Cyber Laws, students perspectives on education, teachers, gender ethics, environment etc.

### **Department of Botany**

- Angiosperm (flowering plants) fossil excavated from Thiruvakkarai village fossil wood park, Tamil Nadu
- Exhibits of fruits, flowers, orchid plants, museum specimens etc.

### **Departments of Biochemistry, Biotechnology & Microbiology**

- Models of the animal cell with various cell organelles
- A hologram of the animal cell,
- Various biodegradation equipments
- The Fascinating World of Bioscience is showcased with live demonstrations of biological experiments, Fluorescent Bacteria, DNA, etc.
- Yeast Production Plant Model etc.
- Sequential demonstration of mushroom cultivation and plant tissue culture

### **Department of Physics**

- Infinity room- an elusive or imaginative world of n-dimension
- An exhibition of the history of communication technology by BSNL.
- Robotics
  - Letter sorting - shuffled letters of the word 'Vajra' is automatically arranged in the proper way using microcontrollers and sensors
  - Automatic redirection of a vehicle through a track with only hand movements using sensor circuits
- A working model of 'Global warming' warning us about the after effects.
- Maglev- shows the principle behind magnetic levitation of superconductor at low temperature using liquid nitrogen
- Luminous beads- polymer beads which changes its colour when exposed to sunlight
- Optical experiments revealing different properties of light such as polarization, diffraction, refraction, reflection etc.

### **Department of Economics**

- A working model of Kerala's economy that explains high social indicators of development in contrast with low economic indicators.
- A hologram- a photographic recording of a light field, which is used to display a fully three dimensional image without the aid of 3D glasses.

### **Departments of Commerce**

- A miniature working model of the Cochin Metro Rail
- A virtual stock exchange trading room is arranged in collaboration with Geojith Paribas Ltd., Cochin.
- International exhibition of numesmatic

### **Department of Physical Education**

- Showcasing the achievements of Mar Athanasius College in Sports from its inception
- Photo exhibition of International and National personalities in sports.
- Video exhibition of previous Olympics and World athletic championships

### **Department of Malayalam**

- International book exhibition

### **Department of Hindi**

- Cultural tradition of India

### **Department of Actuarial Science**

- Risk in everyday life-models showing different types of insurance

- A working model on disaster cost by breaking of a Dam
- A video on risks on natural disasters and accidents
- Model on climate change

### **Seminars and Cultural Programmes**

A series of Seminars were arranged on all days of 'Vajra 2K15.'

1. Agriculture Seminar on 27 December, 2015. Sri. Vimal Roy, Deputy Manager, Vegetable and Fruit Promotion Council, Kerala (VFPCCK) was the resource person.
2. Dr. Kiran Bedi, IPS interacted with the students on 28 December, 2015. Dr. Sheena Shukkur, Pro Vice- Chancellor, Mahatma Gandhi University, Kottayam, was also a resource person.
3. Dr. S. P. Udayakumar, Koodamkulam Activist, lead a seminar on 'Environment Conservation' on 29 December, 2015.
4. Dr. Rajan Gurukkal, former Vice Chancellor, Mahatma Gandhi University, Kottayam and Sri. B. S Warriar, Education Consultant was the resource persons for the 'Educational' seminar on 30 December, 2015.
5. Sri. Johny Lukose, Senior Journalist and Editor, The Malayala Manorama chaired the session on 'Media' on 31 December, 2015.
6. Dr. K. N Ganesh, Famous Historian was the resource person in History seminar on 1 January, 2016.
7. Dr. Babu Sebastian, Vice Chancellor, Mahatma Gandhi University and Olympian P.T. Usha were the resource persons in the sports seminar on 2 January, 2016.
8. Sri. Subhash Chandran, Prolific writer and Journalist, was the resource person for the 'Literary' seminar on 2 January, 2016.
9. A seminar on 'Secularism' was conducted on 3 January, 2016. The concept of '*Vasudaiva Kudumbakam*' was presented and launched in the campus by the renowned Social Activist, Swami Agnivesh. Dr. V.N Rajasekharan Pillai, Former Vice Chancellor, Mahatma Gandhi University, Kottayam and Dr. M. P Mathai, Eminent Gandhian were the other resource persons.

The students, alumni, parents, teachers and other stakeholders participated in all the seminars and benefitted out of these seminars. In the evenings various entertainment and cultural programmes were conducted.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facility	Existing	Newly Created	Total
Campus area	25 ha	Nil	25 ha
Class rooms	8319.88 m <sup>2</sup>	Nil	8319.88 m <sup>2</sup>
Laboratories	2868.35 m <sup>2</sup>	Nil	2868.35 m <sup>2</sup>
Seminar Halls	815.5 m <sup>2</sup>	Nil	815.5 m <sup>2</sup>
Library	2340.59 m <sup>2</sup>	Nil	2340.59 m <sup>2</sup>
Veranda, staff room and toilets	2097.84 m <sup>2</sup>	Nil	2097.84 m <sup>2</sup>
St Mary's Women's Hostel	1028.60 m <sup>2</sup>	Nil	1028.60 m <sup>2</sup>
Mar Athanasius Women's Hostel	2173.75 m <sup>2</sup>	Nil	2173.75 m <sup>2</sup>
Multipurpose synthetic court	576 m <sup>2</sup>	Nil	576 m <sup>2</sup>
Indoor Shooting range	649.26 m <sup>2</sup>	Nil	649.26 m <sup>2</sup>
Indoor stadium	1026.16 m <sup>2</sup>	Nil	1026.16 m <sup>2</sup>
Students' centre	242.93 m <sup>2</sup>	Nil	242.93 m <sup>2</sup>
Canteen+Annex	399.47 m <sup>2</sup>	Nil	399.47 m <sup>2</sup>
Outdoor stadium	7200 m <sup>2</sup>	Nil	7200 m <sup>2</sup>
Basket ball court	2400 m <sup>2</sup>	Nil	2400 m <sup>2</sup>
Swimming Pool	1250 m <sup>2</sup>	Nil	1250 m <sup>2</sup>
Clock Tower	319.21 m <sup>2</sup>	Nil	319.21 m <sup>2</sup>
Health club	299.41m <sup>2</sup>	Nil	299.41m <sup>2</sup>
Chapel	228.72 m <sup>2</sup>	Nil	228.72 m <sup>2</sup>
Students parking	270.74 m <sup>2</sup>	Nil	270.74 m <sup>2</sup>

#### 4.2 Computerization of administration and library

- The library is fully computerized and can be accessed through the College website and through OPAC terminals.

### 4.3 Library Services:

Item	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12990	1,44,00,000/-	337	11473/-	13327	1,50,19,922/-
Reference Books	3644		48	62559/-	3692	
Other books	48478		1347	445890/-	49825	
e-Books	97000	5000/-	38000	5000/-	135000	-
e-Journals	6000				6000	
Digital Database	1				1	
Journals/Periodicals	96	90145/-	3	67661/-	95	-
CD & Video	732	-	16	-	748	-
Others (Newspapers)	15	30305/-	-	23558/-	15	-

### 4.4 Technology Upgradation (overall)

SI No.	Item	Existing	Newly added	Total
1	Desk Top PC	129	29	158
2	Laptop	33	3	36
3	Net book	25	-	25
4	DLP	50	2	52
5	Printer- DM	2	-	2
6	Laser Printer	26	-	26
7	Scanner	16	1	17
8	UPS	38	6	44
9	Network switch	81	-	81
10	WI-FI router	11	12	23
11	Server	4	-	4
12	Media converter	1	-	1
13	Fire wall	1	-	1
14	Memory	15	-	15
15	Copier	1	-	1

### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Training for operation and use of smart boards has conducted for the teachers
- Training to enable web based teaching learning process
- Training to use Management Information System (Honeycomb)

**4.6** Amount spent on maintenance in lakhs:

SI No	Particulars	Amount in Rupees
1	Repairs and maintenance	7,06,372/-
2	Computer and Electrical maintenance	2,80,890/-

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- The college website which encompasses all the details regarding the College including the courses offered and other facilities available in the College.
- A detailed and updated handbook publishes every year and it is issued to the students and staff. The handbook helps the staff and students to carry out the academic activities within the stipulated time.
- The College brings forth the academic calendar every year. It contains all the information regarding the programmes and activities of the College.
- Orientation for new comers

#### 5.2 Efforts made by the institution for tracking the progression

- Regular periodical class tests and terminal examinations are conducted by the College for evaluating the academic progress of the students.
- Progress reports are prepared by the class teachers and intimated to the parents for obtaining their remarks.

#### 5.3 Number of Students

	UG	PG	Ph. D.	Others	Men		Women	
					No	%	No	%
(a) Total Number of students	1581	412	43	Nil	616	30.9%	1377	69.09%
(b) No. of students outside the state	-	-	-	-	-	-	-	-
(c) No. of International students	-	-	-	-	-	-	-	-

Last Year (2014-2015)						This Year (2015-2016)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
871	235	57	650	19	1832	845	265	61	708	14	1993

Dropout- 5.3 %

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Walk With Scholar Programme (WWS) with the financial support of Kerala State Higher Education Council.
- ASAP Training Programme

### 5.5 No. of students qualified in these examinations:

<b>NET Qualified Students</b>		
1	Nivya James	Biotechnology
2	Anu Davis	Biochemistry
3	Sruthy Babu	English
4	Arunima O G	Commerce
5	Athira Sathesan	Commerce
6	Gopu Vijayan	Commerce

### 5.6 Details of Student Counselling and Career Guidance

Full time Student Counsellor	1
No. of students benefitted	196

### 5.7 Details of Campus Placement

- A pool placement drive was conducted for life science students by Episource, a US based company for filling the vacancies of medical cadres. 61 students attended the placement drive.
- ICICI Prudential conducted a placement drive in the college. Out of 170 students attended, 13 students were selected.

### 5.8 Details of Gender Sensitization Programmes

- Distributed more than 3000 leaflets on the 'Emergency Security Call for Women' to the students and public.
- Encouraged the tribal women of Pinavoorkkudy tribal settlement to demonstrate and popularise the bamboo products.
- Displayed a short film on 'Gender Sensitisation' for ten days.
- Conducted an essay writing competition on 'Gender Sensitisation' for the students.
- Celebrated the International Women's Day.
- A seminar on 'Sex, Gender and Parity' was conducted.

## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

	State/ University level	National level	International level
Sports	42	17	1
Cultural	20	Nil	Nil

### 5.9.2 No. of medals/awards won by students in Sports, Games and other events

Event	State/ University level	National level	International level
Sports	25	3 Gold, 1 Silver, 2 Bronze	Nil
Cultural	11 A Grade	Nil	Nil

### International Representation

Year	Sports	Name of students	Level of participation
2015-16	Athletics	Sheena N V.	Asian Grand Prix serious, Thailand

### Achievements in Cultural and others

SI No	Name of student	Position
1	Malavika Padmakumar	<i>Kerala nadanam</i> A Grade <i>Mohiniyattm</i> A Grade
2	Ashique Ali	Short story in Malayalam A Grade
3	Vishnuja Mohan	Essay writing in Hindi A Grade
4	Sandeep Sukumarn	Folk dance A Grade Other form of classical dance A Grade <i>Bharathanatyam</i> II Position with A Grade
5	Able Baby	Mimicry A Grade
6	Athira Prakash	<i>Bharathanatyam</i> A Grade
7	Sandra Sabu	<i>Kavithaparanam</i> A Grade
8	Vyshnavi Mohan	Light music A Grade

Sports Achievements:

<b><i>Achievements of the College</i></b>				
Athletics	2015	Runner up –M. G. University Athletic Championship (Men)		
Athletics	2015	Winners in Ernakulum district Athletic Championship (Men)		
Football	2015	Runner up M. G. University Football Championship		
Volleyball	2015	Second Runner up M. G. University Football Championship		
<b><i>Achievements of students</i></b>				
2015-16	Athletics	1- Athlete Represented India for Asian Grand Prix serious		
		1-Athletes Represented Kerala State in senior Federation Nationals	1-Gold	
		2-Athletes Represented Kerala State in Open Nationals		
		5-Athletes represented Kerala state in junior Federation nationals	1-Gold	1- National Record
		4-Athletes represented Kerala state in junior nationals		
		6-Athletes represented Kerala state in South Zone nationals	2- Gold 1 - Silver	
		2-Athlets represented M.G. University for All India inter university cross country champion		
	Football	4 Students Represented Kerala Under 21 Football team		
	Volley ball	3-Players represented M. G. University for inter university championship		

## 5.10 Scholarships and Financial Support

### Scholarship Details for the Academic Year 2015-16

<b>Name of the Scholarship</b>	<b>Number of Students awarded</b>	<b>Amount of Scholarship per student (<i>p.a-per annum, p.m- per month</i>)</b>	<b>Total amount granted</b>
Higher Education	9	12000/- <i>p. a</i>	1,08,000/-
Hindi Scholarship	2	500/- <i>p. m</i>	12,000/-
State Merit Scholarship	2	1250/- <i>p. a</i>	2,500/-
Suvarna Jubilee Merit Scholarship	18	10000/- <i>p. a</i>	1,80,000/-
Indian Jeeva Karunya Scholarship	10	1000/- <i>p. a</i>	10,000/-
Sitharam Jindal Scholarship	17	150/- <i>p. m</i>	26,400/-

## 5.11 Student organised / initiatives

- Celebration of teachers Day
- Arts Day and College Day

## 5.12 No. of Social initiatives undertaken by the students: 11

## 5.13 Major Grievances of students (if any) redressed: Nil

**Criterion – VI**  
**6. Governance, Leadership and Management**

**6.1 State the Vision and Mission of the Institution**

Vision

- To build up the community of people with character and integrity, courage and tenacity to promote the good and fight the evil and provide justice and fair play to all.

Mission

- We are committed to prepare our students for life by imparting knowledge which focuses on academic competence, social skills and moral values.

**6.2 Does the Institution has a management Information System**

The implementation of the Management Information System is in progress. The college has purchased an office automation software named 'Honeycomb' at a cost of rupees five lakhs (Rs. 5,00,000/-). The programme consists of eight different modules such as library management, admission management, exam management, attendance management etc.

**6.3 Quality improvement strategies adopted by the Institution for each of the following:**

**6.3.1 Curriculum Development**

- The college has designed new certificate courses such as Mat Lab and Taxation. The Board of Study (BOS) members of the college have participated in the syllabus revision meetings and workshops organised by the Mahatma Gandhi University, Kottayam.
- Curriculum and syllabi for PhD course work was prepared by the Dept. of Economics.

**6.3.2 Teaching and Learning**

- Smart Board training was conducted for the teachers by the IQAC
- Walk with Scholar programme of the Higher Education Department was implemented effectively. 10 teachers and 60 students were benefited by the programme.
- Scholar support programme of the Higher Education Department was implemented effectively. 15 teachers and 150 students were benefited by the programme.

**6.3.3 Examination and Evaluation: Nil**

**6.3.4 Research and Development**

- The college encouraged the teachers to avail financial support for various major and minor research projects from National and State Agencies. Two minor research projects are sanctioned during this academic year. A sum of rupees 1.15 lakhs has been received during this academic year for research and development. 43 research scholars are working in the research Departments. 21 research articles are published during the academic year.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- 337 number of text books, 48 reference books and 1347 other books are added during the current academic year for a sum of Rs. 6,19,922/-
- 29 Desktop computers, 3 Laptops, 2 DLPs and 12 Wi-fi routers are added in the year.
- A Board Room was constructed with a seating capacity of 25
- CCTV cameras were installed in examination halls

### 6.3.6 Human Resource Management

- Motivate the teachers to attend maximum number of programmes such as refresher/orientation/workshops.
- Formed various committees for the execution of Diamond Jubilee Celebrations with the participation of student, teachers, alumni, retired teachers and Management representatives.
- Two teacher enrichment programmes were organised by the IQAC
  1. A workshop on ‘Class Room Management’ by Dr. P. K. Babu, Associate Professor, Unity College, Manjeri.
  2. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.

### 6.3.7 Faculty and Staff recruitment

- The management has been taken interest in appointing quality teachers. Four teachers are recruited during this academic year.

### 6.3.8 Industry Interaction/Collaboration

- Regular industrial visits has been arranged by various departments

### 6.3.9 Admission of Students

- Creating awareness among stakeholders on academic and other infrastructure facilities through college websites and advertisements in newspapers.

### 6.4 Welfare Schemes for

Teaching	Cooperative Store – Provision store- Cooperative Credit Society- Banking
Non teaching	Cooperative Store Cooperative Credit Society
Students	Cooperative Store Poor Students aid fund Alumni Scholarship PTA Scholarship Book Bank facility in the college Library

**6.5 Total Corpus Fund generated:**

<b>SI No.</b>	<b>Item</b>	<b>Amount</b>
1.	Diamond Jubilee Collection	68,64,641/-
2.	UGC/KSCSTE/ICSSR/DST and Other Grants	90,48,276/-

**6.6 Whether annual financial audit has been done: Yes**

**6.7 Whether Academic and Administrative Audit (AAA) have been done?**

<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	-	-	Yes	IQAC
Administrative	-	-	-	-

**6.8 Does the University declare results within 30 days? : No**

**6.9 What efforts are made by the University for Examination Reforms?**

- Choice Based Credit and Semester System (CBCSS) introduced for UG courses
- Credit and Semester System introduced for PG courses 2012

**6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- The UGC has awarded Autonomy Status to the College on 09 March, 2016 and the Mahatma Gandhi University, Kottayam, endorsed the UGC order on 20 May 2016.

**6.11 Activities and support from the Alumni Association**

- Alumni academic scholarship
- Alumni sports scholarship
- Alumni reunions
- Timely feedback and suggestions

**6.12 Activities and support from the Parent – Teacher Association**

- PTA Scholarship
- Regular PTA meetings
- In semester examinations and other student support programmes are funded by the PTA.

### **6.13** Development Programmes for support staff

- Training programmes for Non-teaching staff on IT

### **6.14** Initiatives taken by the Institution to make the campus eco-friendly

- Tree Planting
- Maintenance of Medicinal Garden
- Biogas Plant in College Canteen
- Rainwater Harvesting facility in the Campus
- Waste-water Treatment Plant in Hostels

**Criterion – VII**  
**7. Innovations and Best Practices**

**7.1** Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Nil

**7.2** Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

	Plan of Action	Action Taken
a.	Fostering Patriotic fervour and National Integration Programmes	Independence Day and Republic Day Celebrations <i>International Yoga Day</i> <i>Hindi Day</i> Seminar on Secularism Paid Homage to A.P. J. Abdul Kalam
b.	Programmes to inculcate moral and ethical values	<i>World Elder Abuse Awareness Day</i> <i>Yoga Week</i> <i>World Elderly Day – ‘Thanal 2015’</i> <i>Swacch Bharat Abhiyan</i> - Cleanliness Drive <i>Hiroshima Day</i> – Poster designing Competition One day awareness programme on ‘Drug Addiction And Involvement of Youth’
c.	Professional Fraternity fostering Programmes	Farewell to Retiring Staff Honouring former Principals Staff Day Programmes of Staff Association Teachers Day
c.	Social commitment Programmes	<i>International Charity Day</i> <i>Ozone Day</i> – Poster Exhibition <i>Gandhi Jayanthi</i> <i>AIDS Day</i> observed <i>Road Safety Week</i> Seminar on Road Safety <i>Bodhati 2016</i>
d.	Care for sufferers	Orphanage Visits Mid Day meal distribution Helping Hand to Natural disaster in Chennai
e.	Reunion	General Alumni Meet Batch wise reunions
f.	To conduct National Seminars	UGC National Seminars:- 1. Organic Farming In India: An Exploration of Opportunities and Prospects’ 2. ‘Advanced Functional Materials’ 3. ‘Current Trends In Molecular Diagnostics’ 4. ‘Marketization of Skills and its Impact on Socio-Cultural Tradition’.

		5. UGC sponsored National Conference on ‘Technologies Behind Nanoscience: Fabrication, Diagnostics and Application’. 6. UGC sponsored Workshop on ‘Promotion of ethics and human values’ under the Human Rights Education’.
g.	Legal awareness Programme	Legal awareness class for students by KELSA
i.	Teacher Orientation Programmes	1. Smart Board Familiarization Programme 2. ICT Training- “Office Automation” 3. A workshop on ‘Class room Management’ by Dr. P.K. Babu, Associate Professor, Unity College, Manjeri. 4. A workshop on ‘Teaching Morality in and out of the Classroom’ by Dr. G. Gopakumar, Vice Chancellor, Central University, Kasargode.
j.	Workshops and Seminars	1. One Day lecture on ‘Role of Statistics in Actuarial Science’ 2. A workshop ‘Social Science Research Methodology’ 3. A workshop ‘Model making of Mathematical Concepts’ 4. A National level workshop on ‘Gravitational Waves’ 5. Campus Bird Count in Association with International 6. Backyard Bird Count 7. <i>National Science Day</i> ‘Make in India - Science & Technology Driven Innovations’ 8. <i>World Sparrow Day</i>
k.	Management sponsored National Seminars	Seminar Series in Connection with Diamond Jubilee:- Seminar on ‘Education’ Seminar on ‘Media’ Seminar on ‘Sports’ Seminar on ‘History’ Seminar on ‘Environment’ Seminar on ‘Agriculture’ Seminar on ‘Malayalam Literature’ Seminar on ‘Women Empowerment’ Seminar on ‘Secularism’
l.	Green Campus	<i>World Environment Day</i> celebration Bottle Garden Campus cleaning
m.	Remedial Coaching	Scholar Support Programme (SSP) of Kerala Higher Education Dept.
n.	Campus Placement	Placement Drive for Life Science students by Episource, a U. S. based company All India IAS Mock Evaluation Test in Media Partnership with ‘The Hindu’ ASAP Orientation Career Development Classes
o.	Infrastructure Augmentation	Inaugurated the Swimming Pool
p.	Empowering Women	Students Interacted with Smt. Kiran Bedi, IPS Celebrated International Women’s Day

		Seminar on 'Sex, Gender and Parity'
q.	Art and Culture promotion	Reviews :- Malayalam Literary personality Basheer Hindi Novelist Premchand 'Thirukkural Tamil Veda' 'The Clash of Civilizations and the Remaking of Word Order' 'Literature' Seminar by Subhash Chandran <i>Smaranajali</i> -Homage to Sri. O. N. V. Kurupu Arts Day International Book Exhibition as a part of Diamond Jubilee Celebration International Film Festival – 'Life in Frames'
r.	Share a little, care a little	Blood Donation Camps
s.	Personality Development	Workshop on 'Leadership and Career Guidance' Scholar Support Programmes of Higher Education Department. Additional Skill Acquisition Programme (ASAP)
t.	Attainment in sports and games	Organised- 1. Santhosh Trophy Camp of Kerala Football Team 2. M. G University Volleyball Camp 3. M.G University Aquatic Championship 4. M. G University Inter-Zone Volleyball Championship 5. North Zone Volleyball Championship
u.	Gender	Essay writing competition 'Gender Sensitization'
v.	Enabling disabled	Visit to 'Pain And Palliative Care Unit' of Taluk Hospital, Kothamangalam Charity Programme- Students and faculty visited to Akshaparavakal Disability Medical Camp <i>Children's Day</i> celebrated with students of <i>Santwanam</i> Special School, Kothamangalam
w.	Entrepreneurship Awareness	Industrial Visits Entrepreneurship Awareness Camp

### 7.3 Give two Best Practices of the Institution

#### **Sports culture in the Campus**

Excellent sports infrastructure facilities  
Financial support to the students by the College Management  
Consistent achievements in sports and athletics

#### **Community Outreach Programmes**

Pain and Palliative initiatives  
Charity programmes  
Environment protection programmes

#### 7.4 Contribution to environmental awareness / protection

- Celebrating International Days on Environment
- Cleanliness of campus
- Rainwater harvesting
- Medicinal plant garden
- Green campus programmes
- M. P. Varghese Tree Park
- Nature camps
- *Manimala* programme for school students

7.5 Whether environmental audit was conducted? No

7.6 Any other relevant information the institution wishes to add: Nil

#### 8. Plans of Institution for Next Year

- Implementation of College Autonomy
- Organise NAAC Peer team visit
- Enhance E-learning
- Conduct International/National Seminars/State level seminars
- Science Orientation Programmes
- Value Education Programmes
- Celebration of National Days
- Community extension Programmes
- Avail maximum research grants
- Entry in service and remedial coaching classes
- Campus placement services
- Environment conservation initiatives
- Conduct a green audit
- Extension of St Mary's ladies hostel building
- Construct a 400 m Athletic track
- Excellence in sports and games

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