

# **SELF-STUDY REPORT**

**2011-2016**

*Submitted to*

**The National Assessment and Accreditation Council**



**PROVIDENCE WOMEN'S COLLEGE**

*(Affiliated to the University of Calicut)*

**KOZHIKODE – 673 009, KERALA**

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### EMBLEM OF THE COLLEGE

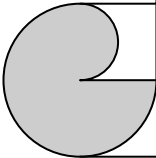
- The Cross : Stands for the supreme sacrifice of Jesus Christ that will urge the students to realize themselves through selfless service.
- The Star : ‘Stella Maris’: Star of the Sea - Virgin Mary, the patroness of our college, with her purity and peace guides us across the uncharted sea of life.
- The Mountain : Mount Carmel in Palestine has been the abode of many an ascetic like the prophet Elias who led an austere life of contemplation. The Apostolic Carmel is a religious family that traces its roots to Mt. Carmel and prophet Elias. Simple living and high thinking characterize the order.
- The Torch : Symbolises the light of truth, justice, knowledge and love that dispels the darkness of ignorance from the seeker.
- The Anchor : Faith in God is the best anchor for the soul. It suffuses the spirit with such a radiant sense of security and courage that we are no more afraid of the challenges raised by life.
- The Palm Tree : Epitomizes the human urge to rise above baser passions and attain spiritual heights. The coconut palm also stands for Kerala, God’s Own Country.
- The Lotus : Represents the rich cultural heritage of India whose national flower it is.
- College Motto : “In Thy Light We See Light”.

In the core of the heart shines the light that God has lit-the light of consciousness. Let us be fully awake inwardly so that we carry the light of God wherever we go.



***Providence Women's College, Kozhikode,***  
*which has completed 64 years of service to the cause of women's empowerment through education, was established by the Sisters of the Apostolic Carmel congregation in fulfillment of the vision of their founder, Mother Veronica. From its modest beginnings as a Pre-University college, it has evolved as a full-fledged centre for higher education that offers diverse academic programmes.*

*This Self-Study Report, submitted to the National Assessment and Accreditation Council for Re-accreditation, pertains to the post-accreditation period 2011 – 2016.*



	<b>Page</b>
1. Profile of the Affiliated College	5
2. Criterion-wise Inputs	
○ Criterion I: Curricular Aspects	16
○ Criterion II: Teaching-Learning and Evaluation	29
○ Criterion III: Research, Consultancy and Extension	51
○ Criterion IV: Infrastructure and Learning Resources	104
○ Criterion V: Student Support and Progression	116
○ Criterion VI: Governance, Leadership and Management	137
○ Criterion VII: Innovations and Best Practices	151
3. Evaluative Report of the Departments	155
4. Presentation of Best Practice	231
5. Post-accreditation Initiatives	239
6. Declaration by the Head of the Institution	244
7. Enclosures	245
i. Certificate of Minority Institution	246
ii. Certificate of Recognition u/s 2(f) and 12 (B) of the UGC Act	247
iii. Accreditation Certificate – Cycle 1	248
iv. Accreditation Certificate – Cycle 2	250
v. Peer Team Report – Cycle 1	252
vi. Peer Team Report – Cycle 2	253
vii. Master plan of the Institution	261
viii. Audited Accounts Statements	262

## 1. Profile of the Affiliated / Constituent College

### 1. Name and Address of the College:

Name :	Providence Women's College, Calicut	
Address :	Malaparamba PO, Kozhikode	
City : Kozhikode	Pin : 673009	State : Kerala
Website :	www.providencecollegcalicut.com	

### 2. For Communication:

Designation	Name	Telephone with STD	Mobile	Email
Principal	Dr.(Sr.) Jesamma	O:0495-2371697	9497168505	srneetha@gmail.com
Vice Principal	Dr.(Sr.) Jaseena Joseph	O:0495-2371696	9656260967	srashmithjaac@rediffmail.com
Steering Committee Co-ordinator	Dr. Minoo Divakaran	O: 0495-2371696	9446345038	minoo10@yahoo.com

### 3. Status of the Institution: Affiliated College : ✓ Constituent College Any other (specify)

### 4. Type of Institution:

#### a. By Gender

- i. For Men
- ii. For Women : ✓
- iii. Co-education

#### b. By shift

- i. Regular : ✓
- ii. Day
- iii. Evening

### 5. It is a recognized minority institution? Yes ✓

If yes, specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

Religious	(Enclosure No 1)
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### 6. Source of funding:

Government

Grant-in-aid : ✓

Self-financing

### 7. a. Date of establishment of the college: **01-07-1952**

b. University to which the college is affiliated /or which governs the college (If it is a

constituent college)

c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks (If any)
i.2 (f)	01-07-1972	<i>Enclosure No. 2</i>
ii. 12 (B)	01-07-1972	

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.) : Not Applicable

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges? Yes

If yes, has the College applied for availing the autonomous status? Yes

9. Is the college recognized

a. by UGC as a College with Potential for Excellence (CPE)? Yes

If yes, date of recognition: 22/04/2016

b. for its performance by any other governmental agency?  
No

10. Location of the campus and area in sq.mts:

Location	Urban
Campus area in sq.mts.	1,49,734 sq mts (37 acres)
Built up area in sq.mts.	College 14,061.49 sq.mts

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

• Auditorium/seminar complex with infrastructural facilities	✓
• Sports facilities	
* Playground	✓
* Swimming pool	
* Gymnasium	✓
• Hostel	
* Boys Hostel	-
i. Number of Hostels	-
ii. Number of inmates	-

iii. Facilities	☐
* Girls' Hostel	✓
i. Number of Hostels	2
ii. Number of inmates	370
iii. Facilities (Computer, Mess, Water Cooler, Sports, Recreation, Reading corner, Solar Water Heater)	✓
* Working women's Hostel	-
i. Number of inmates	-
ii. Facilities (mention available facilities)	-
• Residential facilities for teaching and non-teaching staff (give numbers available—cadre wise)	-
• Cafeteria	✓
• Health centre	
* First aid, Emergency care facility	✓
* Health centre staff	
▪ Qualified doctor Full time Part-time ✓	
▪ Qualified Nurse Full time Part-time ✓	
• Facilities like banking, post office, book shops	✓
• Transport facilities to cater to the needs of students and staff	✓
• Animal house	-
• Biological waste disposal	✓
• Generator or other facility for management/ regulation of electricity and voltage	✓
• Solid waste management facility	✓
• Waste water management	✓
• Water harvesting	✓

12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Program Level	Name of the Course	Duration (yr)	Entry Qualification	Medium of instruction	Sanctioned approved Student strength	No. of students admitted
1	Under-Graduate	1. Botany	3	+2 /PUC	English	36	36
		2. Chemistry	3	”	”	36	36
		3. Mathematics	3	”	”	36	36
		4. Physics	3	”	”	36	36
		5. Psychology	3	”	”	24	24
		6. Zoology	3	”	”	36	36
		7. Computer science	3	”	”	24	24
		8. English	3	”	”	40	40
		9. History	3	”	”	60	60
		10. Economics	3	”	”	60	60
		11. Travel and Tourism	3	”	”	40	40

		12. Business Administration	3	+2 - 50%	”	50	50
		13. Commerce	3	”	”	60	60
2	Post- Graduate	1. Botany	2	UG-45%	”	12	12
		2. Physics	2	UG-45%	”	12	12
		3. Computer	2	UG-45%	”	12	12
		4. Mathematics	2	UG-45%	”	12	12
		5. M.A English	2	UG-45%	”	20	20
		6. Commerce	2	UG-45%	”	20	20
3	Certificate Courses		½	+2	”	25	25
4	Diploma		1	Degree	”	40	44

13. Does the college offer self-financed Programmes?

Yes  No

If yes, how many?

14. New programmes introduced in the college during the last five years if any?

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Number	<input type="text" value="6"/>
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15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments	UG	PG	Research
Science	Botany ,Chemistry, Mathematics Physics , Psychology, Zoology Computer science	7	3	1
Arts	English, History, Economics	3	1	
Commerce	Commerce, Business Administration	2	1	
Any Other (Specify)	Travel and Tourism	1		

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)



- a. annual system : 1
- b. semester system : 19
- c. trimester system :  
Nil
17. Number of Programmes with
- a. Choice Based Credit System : 19
- b. Inter/Multidisciplinary Approach :
- c. Any other (specify and provide details) : 6 Add on and 14 Certificate programmes
19. Does the college offer UG and/or PG programmes in Teacher Education?  
No
20. Does the college offer UG or PG programme in Physical Education?  
No
21. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Assoc Professor		Asst Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government <i>Recruited</i>				11		29				
<i>Yet to recruit</i>						14				
Sanctioned by the Management/society or other authorized bodies					1	42				
<i>Yet to recruit</i>						0			-	-

\*M-Male \*F-Female

22. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent teachers</b>							
D.Sc./D.Litt.							
Ph.D.				4	-	15	19
M.Phil.				3	-	6	9
PG				4		27	31
<b>Temporary teachers</b>							
Ph.D.						1	1
M.Phil.						8	8
PG					1	10	11

23. Number of Visiting Faculty /Guest Faculty engaged with the College : 40
24. Furnish the number of the students admitted to the college during the last four academic years.

Categories	2011-12		2012-13		2013-14		2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	-	69	-	70		73		71
ST	-	14	-	15		15		25
OBC	-	269	-	273		286		334
General	-	151	-	157		161		169
OEC	-	8	-	9		11		12

25. Details on students enrollment in the college during the current academic year: 2015-16 - 1775

Type of students	UG	PG	M. Phil.	Ph.D	Total
Students from the same state where the college is located	1586	166	-	-	
Students from other states of India	21	2			
NRI students	-	-			
Foreign students	-	-			
Total	1607	168	-	--	1775

26. Dropout rate in UG and PG (average of the last two batches) :  
UG : 35                      PG : Nil
27. Unit Cost of Education  
(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled) :
- (a) including the salary component : Rs. 38,776
- (b) excluding the salary component : Rs. 4,105
27. Does the college offer any programme/s in distance education mode (DEP)? No
28. Provide Teacher-student ratio for each of the programme/course offered

Name of the Programme/Course	Teacher-student ratio
<b>UG</b>	
1. Botany	1:36
2. Chemistry	1:42
3. Mathematics	1:40
4. Physics	1:36
5. Psychology	1:24
6. Zoology	1:36

7.Computer science	1:30
8.English	1:11
9.History	1:60
10.Economics	1:60
11.Travel and Tourism	1:30
12.Business Administration	1:30
13.Commerce	1:60
<b>PG</b>	
1.Botany	1 :12
2.Physics	1 :10
3.Computer Science	1: 12
4. Mathematics	1: 7
5. M.A English	1: 4
6. Commerce	1 :10

29. Is the college applying for Accreditation : Cycle 3

30. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1 : 16/09/2004 ; Accreditation Outcome/ Result : B++ Grade

Cycle 2 : 16/09/2011; Accreditation Outcome /Result : A Grade with a CGPA 3.1

*Enclosure: 3 and 4 : Accreditation Certificates;*

*Enclosure: 5 and 6 : Peer team reports*

31. Number of working days during the last academic year. 190

32. Number of teaching days during the last academic year

*(Teaching days means days on which lectures were engaged excluding the examination days)* : 178

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC : 28/10/2004

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

AQAR	(i)	2011 - 2012	09/01/2011
AQAR	(ii)	2012 -2013	11/08/2013
AQAR	(iii)	2013– 2014	01/08/2015
AQAR	(iv)	2014– 2015	18/07/2016

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

- The College has a full-fledged extension and outreach centre
- Centre of higher studies for women empowerment

## Executive Summary

Providence Women's College was born out of the sacred vision of Mother Veronica, the Foundress of the Apostolic Carmel Congregation, on 1<sup>st</sup> July 1952. It is the first Women's College in North Kerala and from its humble beginnings with 67 students, as an institution offering Pre-university education, the college has now grown into a full-fledged centre of higher learning offering research facilities. The college was first accredited by NAAC in 2004, followed by re-accreditation with 'A Grade' in 2011. It was granted the status of College with the Potential for Excellence by the UGC in April 2016.

The college offers 13 UG and 6 PG programmes in Arts, Science and Commerce subjects, and a Diploma course in Jewellery Designing under the Community College Scheme of the UGC. Being an affiliated college, the college has only limited freedom to design its own curriculum. However, attempts are made to enrich the curriculum by offering add-on courses and certificate programmes. There are 6 skill-based Add-on Courses and 13 Certificate Programmes. Many members of the faculty are members of the Boards of Studies of the University of Calicut and can thus play a vital role in the formulation of the syllabi offered by the University for the various UG and PG programmes.

Based on the Vision and Mission of the College, a good number of enrichment programmes are offered on the campus in order to create a community of staff and students committed to the pursuit of academic and ethical excellence. The well-chalked-out Action Plan is implemented systematically and monitored regularly through strict mechanisms which makes the curriculum delivery prompt and effective. The faculty are encouraged to utilize the opportunities offered by the affiliating university and the Institution to effectively translate the curriculum and improve teaching methods.

The student enrollment process is a well accounted and closely scrutinized process that ensures utmost transparency and strictly follows the rules of the affiliating university giving due consideration to the marginalized sections of the society. The students of the college represent a wide spectrum of the society and the college is committed to providing opportunity for education to all. The demand ratio of the various programmes offered on the campus show that there has been a steady increase in the demand for the courses. The advanced learners are delegated various academic tasks to facilitate their academic growth and the students from the disadvantaged sections of society who are at the risk of drop out are supported by means of scholarships, freeships, personal counseling, and the Scholar Support Programme of the Govt. of Kerala. The structured feedback system is fully computerized and helps to improve and modify the annual action plan. The IQAC monitors the Teaching Learning – Evaluation process through the Annual Academic Audit. The AQAR and the annual newsletter 'Profile' serve as an authentic index of all the academic activities on the campus. The dedicated, well-qualified teaching community is one of the greatest assets of the institution. 20 faculty members hold Ph.D. and 19 hold M.Phil. degrees. 5 faculty members have Post Doctoral Research experience. During the post accreditation period, 22 have attended Refresher courses and 16 have attended orientation courses. Many have taken up research projects.

The research activities on the campus are co-ordinated by the IQAC and Research and Development Cell. The Dept. of Physics is an approved Research Centre of the University of Calicut, and is also a centre for the Women Scientist Programme of DST. During the post accreditation period, 9 projects were completed and the total amount granted was Rs.11.55 Lakhs. Two Major and one Minor project worth 19.12 Lakhs are ongoing. The institution has developed research facilities with support from UGC, DST, and KSCSTE. The members of the faculty regularly publish research articles in peer reviewed journals and offer free consultancy service. Major areas of consultancy are Non Conventional Energy Resources, Plant Tissue Culture and Biotechnology, Water Analysis and Women's Studies. International and National linkages have been established.

True to its vision, the institution extends the curriculum beyond the class rooms and integrates extension activities with academic programmes, thus enabling 'Learning through

Service’, a programme organized by the college to inculcate social values in the students. The college has set up a Village Facilitation Centre which is a nodal centre for the extension activities. The flagship projects include Village Adoption Programme, Charkka Centre, Mother Veronica Memorial Library, Santhisthal, a repository of Endemic Fruit Tree Species, and School adoption. The outreach programmes organized in the adopted village are many and varied. These include awareness programmes, community development programmes and entrepreneurial development programmes. Such programmes are organized in association with Government agencies like the Directorate of Environment and Climate Change, Communication and Capacity Development Unit (CCDU), Water Resources Department, Kerala Folklore Academy, CWRDM, Vegetable and Fruit Promotion Council, District Industries Centre, Institute of Palliative Medicine and NGOs like ‘Anweshi’, the Women’s Counselling Centre, and ‘SUMAN’, the Rehabilitation Centre for the Mentally Challenged Women.

The college accords top priority in maintaining and developing infrastructure congenial to academic pursuits. The management has always been keen to maintain an eco friendly campus, meticulously kept clean and plastic free. There are spacious, well-ventilated class rooms and laboratories, equipped with adequate furniture. A well-stocked library further facilitates the academic activities on the campus. There is a total number of 56,906 Books and 49 journals. A special section of audio books and a special software are made available to the visually challenged. With the active support of the PTA, a new block with a total area of 2061.49 square metres was built in 2012 when the college celebrated its Diamond Jubilee. The faculty and students make use of the available ICT resources in their teaching – learning activities and make the process learner-centric. A well-equipped computer lab and Multi-media lab further facilitate the use of computer aided teaching and learning materials. Being a partner of the Kerala IT Mission, the college has been able to improve the computer facilities for the students significantly. There are 163 computers available for use on the campus and laptops and projectors are provided in all the departments.

It is one of the prime concerns of the college to offer maximum student support so that the students can bring out the best in them. The college offers student support mainly under three categories - academic, co-curricular and extra curricular. The academic support is given through effective class room teaching supported by the tutorial system and the remedial coaching given to weak students. The two programmes of the Govt. of Kerala, the Student Support Programme (SSP) and the Walk with the Scholar Programme (WWS) cater to the needs of the academically challenged and advanced learners respectively. Support for co-curricular and extracurricular activities is extended by the Physical Education Department, the College Union, Departmental Associations, NCC, NSS and the large number of Clubs functioning on the campus. The Career prospects of the students are taken care of by the Career Guidance Cell. Psychological support, whenever necessary, is offered by the Counselling Centre. Ragging Prevention Committee, Grievance Redressal Cell and the Ethics Committee ensure relaxed and peaceful life on the campus. Entrepreneurial Development Club and the Additional Skills Acquisition Programme (ASAP) enhance the students’ employability, thus enabling them to be economically independent. The close contact maintained between the faculty and the parents promote the healthy intellectual and emotional growth of the students.

Financial help is extended to the students in the form of scholarships. During the year 2014-15 a total of Rs. 5,48,750 was distributed as Central and State Scholarships to 115 students. 58 students were given financial support from the Students’ Welfare Fund of the college. 62% of the students belong to the SC, ST and OBC categories. Due to the organised and well co-ordinated efforts of the various support mechanisms available, the dropout rate could be brought down to 3%.

A good number of our UG students pursue PG programmes in the college and in other reputed institutions such as NIT and Central Universities. Most of the PG students appear for various competitive examinations like UGC/ CSIR- NET/ JRF, GATE, JAM and CAT. The institution maintains a high pass percentage at both the UG and PG levels. During the last five years many of our students took part in international sports/games competitions and brought laurels to the

college. The College has been winning the “Best Women’s College Award” at the zonal and university level Arts Festivals for the past several years.

The College is committed to nurture the leadership qualities of the students through their involvement in the activities of the Students’ Union and various clubs. The NSS and NCC units play a pivotal role in inculcating a sense of civic and social responsibility among the students, thus enabling them to connect themselves to the society and nation at large. The NSS unit of the college has been adjudged the Best Unit in the State.

Managed by the Apostolic Carmel Congregation, Providence Women’s College has a clearly stated vision which envisages the empowerment of girl students who will be agents of social change and integration in a diverse society. The Management guided by the policy of Truth and Justice, has behind it a strong legacy of commitment to the service of society through education. The policies of the institution are continuously reviewed by the Management, the Principal and the IQAC and regular updation is done through which the institution is able to keep abreast of the times. There is a wide perspective in planning for institutional development and the plans are implemented promptly. All the quality enhancement strategies are initiated by the IQAC and the relentless quest for quality was rewarded when the institution was granted the status of College with Potential for Excellence.

The institution follows a system of participatory management which is executed through democratic delegation of responsibilities and decentralization of authority. The management strives for excellence by attempting to maintain high quality in all the activities of the college and a cordial relationship exists between the management and all the stakeholders. The exemplary support rendered by the stakeholders for the building of the Diamond Jubilee PG Block is a proof of the trust placed on the institution by them.

One of the prime concerns of the management is to motivate and empower the faculty through constant training and updation. The college follows the policy of staff selection purely based on merit. Steering clear of practices like capitation fees for student admissions and donations for appointments, the institution maintains transparency in all financial matters and thus stands apart in today’s commercialized educational field.

The two best practices of the college are Women Empowerment through Education and Learning through Service. Believing that to educate is to empower, the college has remained committed to women’s education. The students get countless opportunities to hone their leadership and working skills and the activities of the various clubs keep the campus dynamic. The college serves as a ‘Community College’ by offering training to the women of the locality in various fields and helping them to be self-reliant. The career prospects of the students get widened through ASAP, the Career Guidance Cell and Entrepreneurial Development Programme.

Social service is integral to the curriculum offered by the college. Well before NSS units began functioning in the college and much ahead of the Compulsory Social Service Programme of the University of Calicut, the college had developed its own plans and procedures for social service. True to its vision of holistic development of the individual, the college has organized a programme of learning through service to inculcate in the students love, empathy and concern for their fellow beings. Various extension activities organized as part of their curriculum help the students develop a humane outlook and mould them as empathetic and responsible members of the society. Some of the major initiatives in this direction are the Village Adoption Programme, construction of houses for the needy students, service to the Dalit colonies in the city of Calicut, the ‘Go Green’ initiatives, energy conservation drives and check dam construction. All these activities make the process of learning richer and more meaningful through which the students get motivated to spread far the message enshrined in the college motto, ‘In Thy Light We See Light’.

## SWOC ANALYSIS OF THE COLLEGE

### **STRENGTHS**

- Reputation of the college management with a history of 150 years in the field of education.
- The legacy of the college as the first women's college in the Malabar, established in 1952 even before the formation of Kerala State
- Recognition as a centre of higher education for women empowerment
- A good track record of University ranks and high pass percentage
- Verdant and serene campus ambience conducive to academic pursuits
- Appointment of competent faculty based exclusively on merit
- A wide range of extension, co-curricular and extra curricular activities
- Illustrious alumni, and Alumnae Association networks in many countries
- Good rapport among all the stake holders

### **WEAKNESSES**

- Less number of PG courses and research centres
- Government restrictions on appointment of faculty
- Inadequate internet and ICT facilities commensurate with student strength
- Shortage of administrative staff due to government policies on downsizing
- Inability to meet the growing demand for students' residential accommodation
- Heavy expenditure on maintenance of old buildings
- Lack of adequate public conveyance to the area where the college is situated
- Inability to offer semi-professional courses due to university restrictions

### **OPPORTUNITIES**

- Status of College with Potential for Excellence granted by the UGC
- Facilitates implementation of DST-Women scientist programmes
- High demand for the courses offered
- Sufficient land available for further expansion of infrastructure facilities
- Large number of clubs to tap the potential of the students
- Scope for MoUs with governmental and non-governmental enterprises
- Proximity to reputed centres of learning and research, like IIM, NIT, IISR, and CWRDM, providing better opportunities linkages
- Opportunities for internship programmes in the flourishing city of Calicut

### **CHALLENGES**

- Irregular academic calendar of the affiliating university
- Semester lag and delay in declaration of results
- Increase in the number of Arts & Science colleges in and around the city and neighbouring districts.
- Diminishing student motivation in non-professional streams of study
- Lack of interest on the part of the parents to encourage girl children to pursue higher studies
- Lack of government funding to begin new courses

## CRITERION I: CURRICULARASPECTS

### 1.1 Curriculum Planning and Implementation

1.1.1 *State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.*

The guiding vision of the college is the holistic development of the individual, through the dissemination of knowledge and the instilling of the gospel values of Justice, Love and Peace in the young women we educate.

The vision envisages the formation of responsible citizens of the country who will contribute to the transformation of the world.

#### Mission

- To create a community of staff and students committed to the pursuit of academic and ethical excellence.
- To empower young women to rise up to the challenges of the times, by enlightening them with the best of ancient wisdom and new knowledge with a global outlook
- To foster an inclusive culture, by providing equal opportunities for education to every section of society
- To inspire Catholic students to live up to their full Christian commitment
- To motivate students to imbibe the gospel values and be instruments of positive change in the society

Embarking on this mission, the college seeks to

- Guide students to be independent individuals equipped with excellent employability skills
- Empower students with the ability to think clearly and critically
- Train students to communicate effectively utilizing multiple media
- Make students competent to serve humanity in their chosen disciplines and professions
- Prepare students for meaningful work in a complex, technological and global society
- Develop social awareness, healthy relationship, innovative outlook, accuracy of expression and leadership qualities.
- Stay true to its motto, IN THY LIGHT WE SEE LIGHT

The vision and mission are reflected in the Emblem of the college and College Anthem, and clearly stated in the students' handbook, the college website and the college prospectus, and prominently displayed at chosen spots in the college. The total organizational culture and all the programmes implemented on the campus are in alignment with these. The mission and vision of the college are further conveyed to the stakeholders through orientation classes, general assemblies, tutorial classes, value education classes, and PTA meetings.

1.1.2 *How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).*

The following steps ensure the effective implementation of the curriculum: \*

- Innovative teaching strategies, time-lined curriculum planning, vertically aligned curricula and assessments that meet the individual learning styles and diverse needs of all students.
- Monthly teaching plan prepared in the teachers' diary to complete portions on time



- Regular monitoring in the college council and departmental meetings.
- Remedial classes for the benefit of slow learners.
- Opportunities for advanced learners to attend seminars, competitions, and discussions at various levels.
- Skill based certificate courses and Add-on courses to suit the fast growing employment market.

1.1.3 *What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?*

- The university conducts staff orientation programmes, refresher courses and workshops on regular basis.
- The university gives freedom to continue Add-on courses even after the tenure specified by UGC.
- University has instituted awards for best NSS volunteers and officers so as to encourage the integration of social service activities with the syllabus.
- The college management supports the research interests of teachers and encourages them to publish and present research papers at national/international conferences.
- Teachers are motivated to devise innovative methods of teaching.
- The Management encourages teachers to complete research work availing FDP.
- Management encourages publications of Guest faculty by giving incentives

1.1.4 *Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other Statutory agency.*

- Enthusiastic learners are encouraged to present papers at national/international conferences.
- Students are given research orientation at the UG level itself, by being engaged in minor research projects. Students at post graduate level are encouraged to do research projects in reputed research institutes like TIFR-Mumbai, IIA-Bangalore, IUCAA-Pune, DAMP-Manipal, NIT-C, ICAR-SBI Coimbatore, AVS-CMPR etc.
- Tutorial system followed in the college ensures both academic and moral support for the students.
- The unique day-system of time table avoids loss of class hours due to holidays.
- Hours lost due to unexpected and unavoidable reasons are compensated through special classes.
- Regular monitoring by the Head of the Department and the Principal.
- Effectiveness of teaching and learning are evaluated through regular internal examinations.
- Students are encouraged to participate in National level seminars and Management fests.
- Remedial coaching is given to weak students.
- Students are entrusted with the organization and conduct of seminars and conferences in the college.
- Departments submit action plans at the beginning of the academic year and these are evaluated and monitored by the IQAC and the Principal.

*1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?*

The college networks with various organisations to operationalise the curriculum. These include

- Skill training under the Additional Skill Acquisition Programme (ASAP) – an initiative of General and Higher Education Departments, Govt. Of Kerala.
- Scholar Support Programme, part of the ‘New Initiatives in Higher Education’ initiated by the Department of Higher Education, Govt. of Kerala
- “Walk With the Scholar (WWS) scheme” of the Govt. of Kerala for specialized mentoring
- Students are also provided with opportunities to interact with industry experts, business leaders and NGO volunteers.
- Industry visits and field visits are organized regularly by various departments.
- Students are encouraged to do short term projects in various research organizations.
- Some of the faculty members of the college are Chairperson/ Members of Boards of Studies and Academic Council and they network with the various bodies of the University.

*1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.*

Faculty members participate in the Workshops organised by the University and the Boards of Studies whenever there is Syllabus revision. They have succeeded in bringing about creative and positive changes, especially with regard to the inclusion of Women’s Studies, Gender Economics, Women’s Writing and Eco-criticism in the syllabi.

Faculty members have made significant contributions for the development of the curriculum as members of various Boards of Studies. For instance:

- Dr. Mini P Balakrishnan, Head of the Dept. of Physics is a member of the Academic Council for Physics, and is associated with all academic matters related to Physics including prescribing the courses of studies, making regulations on students’ admission and examination, and instituting faculty positions.
- Dr. Latha P (Panakkada), Dept. of Physics, is a member of the Board of Studies in Physics (2014-2015) and Instrumentation (2014 onwards) of University of Calicut and was a member of the 2015 syllabus revision committee.
- Dr. Sreekumari, Dept. Of Malayalam is a member of UG Board of Studies, of Calicut University.

Feed back is collected from students, teachers, PTA, other stakeholders, placement agencies and the society and appropriate suggestions are given to the BoS and the University on syllabus revision.

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

The following Add-on course curriculum have been developed and implemented successfully.

- Communicative English - To enhance the communication skill of students
- Women's Studies - To improve the experience in the analysis of human culture, to foster personal and intellectual development.
- Multimedia -To Provide students with opportunities to represent and express themselves through new media.

These courses were introduced in response to the demand from the stakeholders for the provision of an additional course that students could pursue during their UG programme. The courses are offered by parent departments, the faculty of which designed the syllabus and developed the strategies to run the courses successfully. The UGC funded the programmes for five years, and now the course fee is collected from the students.

#### Community Courses

The curriculum for the Community Course in Jewellery Designing developed by the college has been accepted and sanction has been given to start the course with the financial support from UGC.

Needs Assessment - This course was selected, considering job opportunity, relevance of the course in this locality, the chances of getting MOU from nearby industries and also the opinion of our present and past student community, PTA and other stake holders.

Design - The curriculum was designed by the academic committee comprising faculty members of the college, in consultation with experts in the field and industry partners

Development -The curriculum for the community course was approved by the UGC. This has to be sent to Sector Skill Council for their approval so as to make it NSDC certified.

Planning - The action plan in running these courses including the methodology, the course wise teaching plan, resource persons, guest faculty, skill based training and internship etc were designed and finalized by a committee consisting of the Management representative, Principal, External Expert and the coordinator/nodal officer of the course.

1.1.8 How does the institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

- Through an effective feedback system and annual SWOC analysis
- By introducing Value added programmes, career orientation and value education classes
- With the tutorial system and remedial coaching
- Group Discussions in classrooms
- Through ICT aided seminars and project presentations
- Through skill development programmes
- Through Regular internal assessments and result evaluation

## 1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

The institution offers various certificate courses enabling the students to learn an additional skill and acquire an additional certificate with their degree programme.

Sl. No.	Title of the course	Type	Department in charge
1	Communicative English	Add-on course	English
2	Women's Studies	Add-on course	History
3	e-commerce	Add-on course	Commerce
4	Travel& Tourism	Add-on course	Economics
5	Sericulture	Add-on course	Zoology
6	Multimedia	Add-on course	Computer Science
7	Course in Arts and Craft Skill-Learn and Earn	Certificate	Botany
8	Water quality assessment	Certificate	Chemistry
9	Bio-informatics	Certificate	Zoology
10	Ornamental fish culture	Certificate	Zoology
11	Key to better English	Certificate	Travel and Tourism
12	Diploma in Computer Applications	Certificate	Computer Science
13	Hardware maintenance and trouble shooting	Certificate	Computer Science
14	Basic Statistical Skills in Research	Certificate	Statistics & Mathematics
15	Film and documentary making	Diploma	Statistics & Mathematics
16	Retail Management and data entry	Certificate	Business Administration

17	Life Skill development	Certificate	Business Administration
18	Graphic designing	Certificate	Business Administration
19	Vocational Training in Fashion Designing	Certificate	College
20	Jewellery Designing	Diploma	College

1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If 'yes', give details.

The institution does not offer twinning/dual programmes as it is an affiliated institution and the University does not offer such options as of now.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skill development, academic mobility, progression to higher studies and improved potential for employability.

1. Range of Core / Elective options offered by the University and those opted by the college

#### OPEN COURSES

No	Department	Available options	Opted by the college	Objective
1	Botany	Plant Tissue Culture, Bio fertilizer technology, Organic farming	Plant Tissue Culture	Methods of cultivating Plants in lab as a first step towards biotechnology
2	Chemistry	Environmental Chemistry, Chemistry in everyday life, Plastics and rubbers in everyday life	Environmental Chemistry	Control, monitoring of Air & water pollution
3	Commerce	Human Resource management, E-commerce, Basic accounting	Human Resource Management	Effective Utilization of human resources so that the employer and employee enjoy max. O/P

4	Economics	International Trade & Finance, Basic principles of economics, Banking	International Trade & Finance	Importing and exporting of goods between nations so that the country gets max inflow of foreign exchange
5	English	Film Studies , Creative Writing in English, Applied Language Skills	Film Studies	Appreciate films as an index of art, culture & politics
6	History	Historical Tourism, Heritage Studies, History of Ideas	Historical Tourism	Latest trends in Tourism Industry focusing on History of Tourist sites
7	Mathematics	Mathematics for Physical Sciences, Mathematics for Natural Sciences, Mathematics for social sciences	Mathematics for Physical Sciences	Develop knowledge in Maths for Professional future
8	Physics	Elementary Medical Physics, Non-Convention Energy Sources, Amateur Astronomy and Astrophysics	Elementary Medical Physics	Studies about radiations, X -rays, ultrasound etc.
9	Physical Education	Physical Activity- Health & Wellness, Physical Health and Life Skill Education, Health and fitness education	Physical Activity, Health & Wellness	Developing & maintaining a healthy life style
10	Psychology	Psychology and Personal Growth	Psychology and Personal Growth	For holistic development
11	Zoology	Nutrition, Health & Hygiene, Applied zoology	Health & Hygiene	For developing a healthy life
12	Computer Science	Web Designing, Computer fundamentals, Introduction to computer and Office automation, Introduction to problem solving and c-programming	Web Designing	To provide ample employment opportunities for women
13	Business Admin	Hospitality Management, E-commerce	Hospitality Management	Equip the students for job opportunities in Tourism & Hotel

	istration			Industry
14	Travel & Tourism	Event Management, Tourism and Cultural Heritage of India, Travel and Tourism Infrastructure	Event Management	To open up self-employment opportunities for women.

## 2. *Choice Based Credit System and Range of Subject Options*

The syllabus comprises core, elective and complementary, practical skill, project work and an open course. Students are free to select an open course of their choice from any other discipline during their final year. This facility ensures inter-disciplinary participation.

### 3. *Courses offered in modular form*

Short term courses in modular form are offered - Film making, Mushroom cultivation, Communicative English and Sericulture

### 4. *Credit transfer and accumulation facility*

There is provision for credit transfer subject to the conditions specified by the concerned Board of studies.

### 5. *Lateral and vertical mobility within and across programmes and courses*

The College offers a Diploma in Jewellery Designing, which has the facilities for lateral and vertical mobility.

### 6. *Enrichment courses*

All UG curriculums incorporate enrichment courses that adapt to the requirements of industry and stake holders. The enrichment courses include subject related courses and soft skill courses such as Communication courses, IT training and Managerial skill development courses.

1.2.4 *Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher Qualification, salary etc.*

Yes, the college offers the following self-financing programmes

1. B Sc Computer science
2. B A Travel and Tourism Management
3. B B A
4. M Sc Computer science
5. M Sc Mathematics
6. M Com
  - Admission norms and curriculum are the same as the regular courses, as stipulated by the University. Fifty percent of the available seats are filled through centralized admission process of the university and the remaining fifty percent is filled in by the management.
  - The curriculum is as designed by the university and approved by the Board of studies of the university
  - Fee structure is decided by the university
  - Teacher qualification is in compliance with the UGC and university rules.
  - The salary is decided by the Management which matches conditions prevailing in other institutions. An annual increment is given.

*1.2.5 Does the college provide additional skill-oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.*

Yes, the college is the nodal centre for the ASAP training to improve employability of the youth, by providing additional skill sets to students along with their regular courses. Group discussions, mock-interviews, Career counselling guidance and orientation training in Spoken English, personality development programmes, soft skill development programmes, Training in Banking and other competitive examinations is offered to the students by the Career Guidance and Placement Cell. As a partner of the State IT Mission, the college has offered Certificate Courses in IT to four batches of UG students during the last five years.

Career Guidance cell in association with NSDC (National Skill Development Council) offers certificate course in Retail Management and Data Entry.

*1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice" If 'yes', how does the institution take advantage of such provision for the benefit of students?*

The institution does not have the freedom to combine distance mode with conventional face to face courses in the current capacity of an affiliated college.

### **1.3 Curriculum Enrichment**



*1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated*

To supplement the university curriculum, the institution offers 20 Certificate courses, ASAP, WWS, SSP, IT Mission as listed in 1.2.1. These programmes help in actualising the goals and objectives of the college.

In addition -

- The Women's cell functioning in the college designs and implements a number of programmes for the women of the neighbourhood. Self employment for women is the target of the vocational training provided by the Cell in book binding, tailoring, umbrella making and jewellery designing.
- Entrepreneurial skill development programmes are organized by the ED club
- Career guidance cell arranges coaching classes for bank tests and civil service examinations.
- Under the leadership of the NSS units several social awareness programmes are organized
- NSS, NCC and Bhoomitrasena organize a variety of programmes for nurturing love towards environment and biodiversity and to create awareness about environmental hazards.
- The college union organizes various programmes to promote national integration and patriotism
- Club activities are taken up by all the departments to hone the talents of the students.

*1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?*

- To cope with the needs of the dynamic employment market, training is imparted in Communication Skills in English and Basic IT courses to the student community. This ensures a large talent pool that promote a global work environment.
- "Meet the Manager Programme" of the Management club functioning under the department of Business Administration provides the students with opportunities to interact with corporate leaders that inspires and motivates them to become future managers .
- College organizes Business Meet (B2B), Trade fairs, MSME fest etc.
- Career Guidance Cell organized National seminar on "Actuarial Profession- An Overview" to familiarise the students with emerging disciplines and profession. The Cell conducts group discussions, mock interviews and classes on personality development.
- The college encourages students to participate in Management fests conducted by Business Management Institutions.
- Students are encouraged to pursue Internship programmes in the industry specific to their subject of study.

*1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?*

- Computer education is mandatory for all students
- Certificate and Diploma course in Computer Applications is offered for students to enhance their skills
- Gender Education- Seminars and talks on gender issues
  - Add-on course in Women's Studies
  - Women Empowerment initiatives undertaken by the Women's cell
- Climate change - Talks on Environmental issues under the guidance of Environment clubs of each department
- Human rights - Observation of Human Rights Day with seminars and talks by experts.
  - Legal Literacy classes conducted annually
  - Consumer club of the Department of Business Administration organises seminars and exhibitions on consumerism, consumer rights etc.
  - Cyber crime awareness programmes organized in collaboration with Kerala Police Department.

The NSS Units of the college take up a host of activities during the course of each year, which integrate these cross cutting issues into the college curriculum. (Details provided in 3.6.1)

#### *1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?*

- The College offers value-added programmes in association with the Govt. of Kerala – The Additional Skills Acquisition Programme, Kerala IT Mission, Walk with the Scholar and the Scholar Support Programme.
- The Tutorial system followed here has enabled the faculty to be mentors to their wards. Personal counselling is given to students by tutors and experts.
- Moral and ethical values are upheld through Value education and Catechism classes. Spiritual retreats are conducted every year for mental rejuvenation. Under the auspices of Jesus Youth, students get exposed to various value added programmes. The University's Chair for Christian studies conducts examinations based on prescribed text books.
- To augment the career prospects, the Career Guidance Cell organises various programmes like Personality Development Workshops, Leadership training programmes, Soft Skills training and career counselling. Job Fairs are also organised. Online coaching for Bank Tests, PSC tests and other competitive exams is provided with the assistance of a training concern named Edunet.
- The college offers various Add on courses that improve the prospects for employment. The Learn and Earn programme of the Botany department gives training in the production of Azolla biofertilizer, and Mushroom cultivation.
- The Entrepreneurship Development club of Commerce department offers training in manufacturing various products like umbrellas, readymade garments, toys, jewellery and other accessories.
- The NSS units of the college conduct many community oriented programmes like water analysis, soil analysis, renovation of public well, wick-irrigation training to residents' associations, literacy classes in the Mental Hospital, organic farming in old age homes, construction of check dam across a river, waste management- especially plastic waste and bio-waste management by installing pipe-composting
- The College is actively involved with the Compassionate Kozhikode project of the District Administration, which aims at fostering an inclusive culture. The students are also engaged in the programmes of the Blood Donors' Forum, Red Ribbon Club and the Pain

and Palliative Care centre.

- The students observe a unique programme of the college called Miss a Meal, whereby they sacrifice a meal and utilise the amount thus saved, to help the under-privileged

*1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?*

Based on the feedback received from students, parents, industry, and other stakeholders, the following modifications were introduced

- UG programme in Psychology and PG programmes in Commerce, Mathematics, Computer Science and Botany
- Diploma course in Jewellery Design
- Coaching classes for bank tests
- Coaching for PSC exam and Civil Service examination
- Add-on and certificate courses

*1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?*

- Each enrichment program is monitored by a coordinator appointed by the principal
- Continuous evaluation and assessment of the program is done by the resource persons
- Final evaluation is done by the University or the service provider.

#### **1.4 Feedback System**

*1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?*

- Feedback collected from the students is communicated to the University to make value-added changes in the curriculum prepared by the university.
- Faculty who are members of Academic Council and Boards of Studies of the University actively participate in the development of curriculum.
- Teachers participate in the workshops on syllabus restructuring, and communicate the feedback from the students and other faculty members.

*1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?*

There is a formal feedback mechanism for curriculum enrichment. The software for this has been developed by the Computer Science Department, incorporating the format for feedback, drawn up by the IQAC. The students rate the curriculum and the results are analysed by the IQAC. Many a quality improvement measure has been adopted by the college, based on these results. The faculty members also communicate to the separate Boards of Studies, the suggestions of the stakeholders.

Value added and job-oriented Certificate Courses are offered by the institution based on student demand. Career guidance and counselling is provided to meet the requirements of the students. For skill based courses like jewellery design and soft skill development courses like communicative English, the curriculum is designed as per the feedback obtained from parents, alumni and the industry.

1.4.3 *How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)*

Based on the demand from students and parents, the college has introduced the following courses

Name of the Course	Rationale for introducing the course
B.Sc. Psychology	Excellent job opportunities in the field of psychological counselling in an increasingly stressed-out world
M.Sc. Botany	Wide range of career opportunities in research, industries, teaching, public service, self employment
M.Sc. Mathematics	Job opportunities in fields like Cryptography, Cyber cell, Fingerprint Analysis
M.Com.	Large workforce needed to meet the demands of teaching Commerce to an increasing number of aspirants
MSc. Computer Science	Rising demand for software developers, web developers and system administrators.
UGC aided Diploma in Jewellery Designing	Self-employment opportunities for women

*Any other relevant information regarding curricular aspects which the college would like to include.*

- The College is rated highly in the region for the value-based, disciplined curriculum that it offers.
- The Curriculum implemented in the college gives maximum emphasis to cross-cutting issues like women empowerment and environmental awareness.
- The large number of Add-on courses offered compared to the number of such courses offered by other colleges in the region, is a major advantage.
- With adequate space for infrastructure development, the college has been able to increase the number of PG Courses over a short period of time, and this can be continued in future too.
- The Computer Science Department has created a software programme that has made the feedback system very effective.

## CRITERION II: TEACHING - LEARNING AND EVALUATION

### 2.1 Student Enrolment and Profile

#### 2.1.1 How does the college ensure publicity and transparency in the admission process?

The admissions for UG and PG courses are processed by the University through the Single Window System. The college has an Admission Committee led by a Nodal officer, which conducts the admission procedure in the college, on the basis of the Centralised Allotment List prepared by the University.

Publicity regarding the Courses offered by the college is ensured using:

- Institutional Website - The College Website is updated periodically, and furnishes the necessary information for a candidate seeking admission.
- Notification published by the University in Regional and National newspapers and on the website of the University.
- In addition, enquiries received via e-mail, telephone calls and in person at the Enquiry Counter of the college receive prompt responses, ensuring further publicity to the admission process.

The Admission Committee ensures that the admission process is a well-accounted and closely scrutinized process that ensures maximum transparency.

The list of selected students is forwarded to the University for final scrutiny and approval.

#### 2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Admission for the courses offered by the college is based on merit. Students are ranked according to merit in the Reservation and Community quotas too. The Index mark for admission is calculated giving additional weightage to the marks scored in the opted subject in the qualifying examination. Due weightage is given for participation in NCC, NSS and Social Service.

The admission for M.Sc. Computer Science is based on an entrance test. Students from disciplines other than English have to appear for an entrance test if they seek admission for M.A.English. Both these tests are conducted by the University.

#### 2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

	Programme	Maximum Percentage	Minimum Percentage *
UG	Botany	98.2	85.2
	Business Admn	96.4	87.2
	Chemistry	98.6	90.0

	Commerce	96.4	88.9
	Computer Sc	87.6	76.8
	Economics	95.8	83.2
	English	95.9	87.3
	History	92.1	82.5
	Mathematics	96.2	87.9
	Physics	99.3	92.5
	Psychology	95.7	82.6
	Travel and Tourism	88.3	72.2
	Zoology	96.1	87.5
PG	Botany	98.4	95.7
	Commerce	90.1	85.9
	Computer Science	81.6	64.0
	English	87.1	81.2
	Mathematics	85.7	79.0
	Physics	96.7	93.6

\*These are the figures for the candidates in the Open Merit category.

There has been no decrease in the marks of the candidates who seek admission in the college. The marks show an increase with each passing year. It has been found over the years that the entry-level mark pattern is the same in the major colleges within the city, with a negligible variation ranging from about 1 to 5%.

*2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?*

The Admission Committee meets regularly to streamline the admission process and to ensure the transparency of the system. The college has benefitted immensely from the recommendations made by the admission committee, and the feedback received from the students and their parents. The development of the admission software was a major step in this direction. Currently, the admission process is carried out by the University, with a Centralised Admission Process. The Admission Committee of the college ensures the smooth conduct of the interview process in the college. Significant changes if any, in the admission pattern, are discussed at the department and Academic Council meetings.

The admission committee communicates feedback from the college to the Directorate of Admission, of the University, to resolve snags, if any.

*2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion SC/ST OBC Women Differently abled Economically weaker sections Minority community*

The college is committed to providing the opportunity for education to all, irrespective of caste or creed. The policy for admission is in sync with the National commitment to diversity and inclusion. The students of the college represent a wide spectrum of the society, and the college ensures a free, secular, non-politicized ambience to deliver quality education to all the students. This is reflected in the diversity of the students seeking admission in the college.

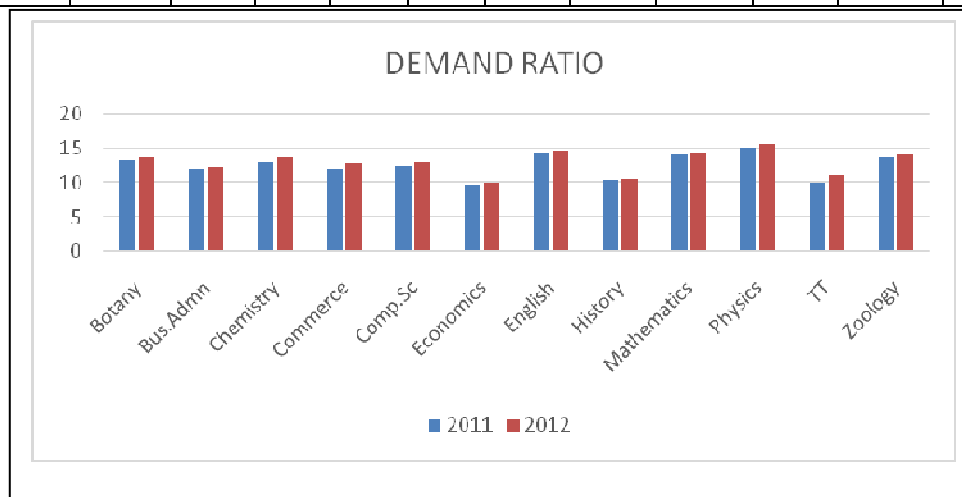
- Government norms on Reservation are strictly followed (5% for ST and 15% for SC) during the admission process. Once admitted, all the students are treated on par. The scholarships instituted for the welfare of the students in Reservation and Minority category are disbursed promptly to ensure their uninterrupted involvement in studies.
- The vision and mission of the college are directed towards the education and empowerment of women. The free, secular and non-politicized campus affords girl students maximum opportunities to excel in academics, sports, art and culture and social service. The well maintained hostel of the college is a prime factor in the choice made by many to join this college. The college makes special provisions for married and expecting students to continue their studies uninterrupted. Students are aided by the staff in availing facilities like maternity leave and Repeat Semester. Moral support is extended by the tutors to ensure that the students pursue their studies, overcoming all obstacles.
- There is a separate quota of 3% for differently-abled students, for admission. The scholarships for the differently-abled students are disbursed promptly. Effort is taken to minimize their hardships, through ways like the allotment of front-row seats in classrooms, and provision of special toilets in each block and boarding rooms on the ground floor in the hostel.
- Being a minority institution, 10% of the seats are reserved for students belonging to minority community.
- Students from economically weaker sections are exempted from the payment of PTA fund and the College Development Fund. The 20% seats allotted to the Management are mainly used to admit students from financially disadvantaged families.
- Candidates who have excelled in Sports avail the Sports Quota provision made in the General Merit category. In addition, the Dept. of Physical Education takes the initiative to identify High School students who excel in sports. They are invited to join the college, and special efforts are taken to accommodate the maximum number of such candidates in the Management Quota.
- Students excelling in fine arts and other cultural activities are likewise, given due consideration for admission.

*2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.*

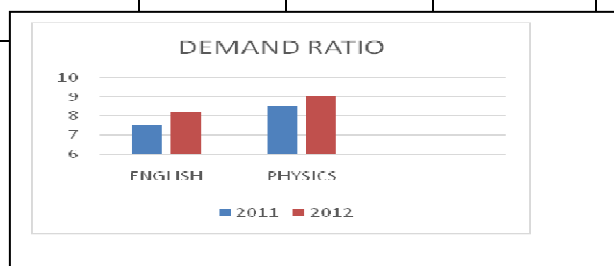
The following tables indicate the demand ratio of the various programmes offered by the college. From the year 2013, the admission process has been centralised under the Single Window system. There is no decrease in the number of applications received each year.



UG	Botany	Bus. Admn	Chemistry	Commerce	Comp. Sc	Economics	English	History	Mathematics	Physics	Psychology	TT	Zoology
Strength	36	50	36	60	24	60	40	60	36	36	24	40	36
Demand in 2011	480	600	465	720	300	575	565	619	503	542	Commen- ced	402	492
Demand in 2012	494	611	490	760	311	598	586	640	516	564	In 2013	445	510



PG	Botany	Commerce	Comp.Sc	English	Maths	Physics
Strength	12	20	12	20	15	12
Demand in 2011	Commen- ced in 2013	Commenc- ed in 2014	Commen- ced in 2013	150	Commenc- ed in 2014	102
Demand in 2012				165		108



## **2.2 Catering to Student Diversity**

*2.2.1. How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?*

The college fully adheres to the norms of the government with regard to the admission of differently-abled students. In addition, due consideration is given to enable such students to pursue higher education by accommodating them in the Management quota for admission.

Care is taken to minimize the difficulties faced by these students by allotting classrooms and boarding rooms in the hostel on the ground floor and providing ease of access to the library, toilets, etc. The administration ensures timely sanction of government aids. Their latent talents are identified, and they are motivated to participate in various extra-curricular activities, thereby ensuring their total acceptance on the college campus.

The college has special software installed and audio books to aid the visually challenged students for computer-aided learning. The tutors encourage their wards to help such students, by reading aloud to them texts and reference materials, and aiding them in the laboratories. Scribes are arranged to enable them to write their exams, and extra time is allotted for the same.

*2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.*

Each department conducts introductory tests and Bridge Courses to assess the students' needs and help them cope with the advanced syllabus, before the commencement of the programme.

Based on the results of these, the advanced learners are identified. Remedial classes are arranged to cater to the needs of the weaker students.

One-to-one academic adoption of a weak student by an advanced learner is practised in the college.

*2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?*

In addition to the Bridge Courses, Remedial classes and Academic adoption as specified above, the departments offer Add-On and Certificate Courses that enable the students to improve their skill quotient. Each department offers either an Add-on or Certificate course closely allied to the subject, so as to improve the students' overall performance. For instance, the English Department offers an Add-on course in Communicative English, and the Commerce Department, a course in e-Commerce.

At the beginning of each course of study, the students are given a thorough orientation by the faculty, introducing them to the methodology of the subject, its scope and prospects. Recapitulation and revision of the previous day's lectures is done systematically. A reading list is provided to the students to supplement the prescribed syllabus.

*2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?*

The staff and students of the college are initiated into an atmosphere that is sensitive to issues of gender, inclusion and environmental concern, these being vital aspects of the vision and mission of the college.

The college was specifically established to provide higher education facilities to girl students. This continues to be the priority of the college, which has been recognised as a significant institution nurturing women power. The curriculum adopted by the college specifically aims at women empowerment. Departments like English, Economics and History offer elective courses like Women's Writing, Gender Economics and Women's Studies. The cultural programmes put up by the students are often based on gender related themes. The activities of the Women's cell include the organization of talks and seminars on gender sensitization. Various programmes are organized by the college to help the women of the neighbourhood to earn a livelihood. The faculty identify women centred seminars, workshops and competitions organised by other institutions and organisations, and motivate the students to participate in the same. Students have been actively engaged in various movements organised to protest against atrocities inflicted on women.

The college has adopted a policy of inclusion. Admission is open to all sections of the society. Though managed by a Catholic congregation, the college upholds the secular values enshrined in the Indian Constitution. The welfare of the underprivileged and marginalized sections is prioritized in the action plan adopted by each department. Healthy practices like 'Miss a Meal' and social service activities in orphanages and poor homes sensitize the students to the issue of inclusion.

Learning through Service is one of the best practices of the college. The community-oriented extension activities of each department come under the umbrella of the mega college project of village adoption, which fosters a spirit of concern and empathy for the less privileged. The programmes of the NSS units are also geared towards this end.

The college has various programmes like Bhoomitrasena, Energy and Environmental club, Nature Club, etc, in addition to the NSS units, all of which have as the prime agenda the protection of our environment. Environment Day is observed annually with the planting of trees and distribution of saplings among students. The students are sensitized to environmental causes with their active involvement in the college campaigns for a plastic-free campus, solid waste management, water analysis, solar power generation and bio-gas production. Students enact street plays and organize flash mobs to spread the message of environmental protection.

#### *2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?*

Advanced learners are identified on the basis of tests conducted by the departments. They are then delegated tasks in accordance with their calibre. They are

- made the leaders in remedial teaching programmes like Group work, academic adoption of weaker students
- motivated to make seminar presentations both inside and outside the campus.
- encouraged to pursue Summer Research Projects and other Research Projects at premier institutions like Tata Institute of Fundamental Research (TIFR) Mumbai, Inter University for Astronomy and Astrophysics (IUCAA) Pune, Indian Institute of Astrophysics (IIA) Bangalore, Raman Research Institute, Bangalore, Sugarcane Breeding Institute, Coimbatore, centre for Medicinal Plants Research (CMPR) Kottakkal, and the Centre for Water Resources Development Management (CWRDM) Kozhikode.
- mentored by eminent faculty as part of the Walk With the Scholar programme of the Govt. of Kerala.

#### *2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?*

The college provides the maximum opportunities for all learners to pursue their education in an uninterrupted manner.

- Scholarships and Freeships like the Mother Veronica Scholarship and Alumnae Scholarships are instituted by the college, in addition to the Government scholarships.
- During the Orientation Programme organized for each new batch of students, the Scholarship Coordinator of the college gives a detailed introduction to the various governmental and institutional scholarship schemes available for the students.
- Slow learners are adopted by the advanced learners of each class. Remedial classes are arranged to help weak students cope up with the lessons taught in the classes.
- Govt. of Kerala Programmes like ASAP and Scholar Support Programme adopted by the college provide much impetus to students from disadvantaged backgrounds.
- A trained counsellor is employed by the college to counsel students who are likely to drop out of their courses for various reasons. Tutors take special care to counsel such students and persuade them to continue their studies. Whenever needed, the tutors also meet the parents of such students and advise them to provide a conducive atmosphere for the students to pursue their studies.
- Facilities like Repeat Semester have enabled many students to continue their studies, when interrupted by marriage, maternity, or illness.

### **2.3 Teaching-Learning Process**

*2.3.1 How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)*

The teaching-learning and evaluation process is given the highest priority by the college.

- Regular, disciplined and systematic conduct of classes and examinations has been rated as one of the highlights of the institution by the stakeholders.
- The college follows a Day Wise Timetable that is not scheduled in a Monday-to-Friday format. This facilitates the smooth conduct of classes, undisrupted by holidays.
- The Academic Calendar, updated annually by the Calendar Committee of the college, is planned in accordance with the academic calendar issued by the University.
- Departmental meetings at the beginning of each term draw up an Action Plan based on this academic calendar. The dates for internal exams and seminar presentations are scheduled, as are the portions to be handled in each term or semester.
- These Action Plans are submitted to the IQAC and the Principal, who evaluates them, offers suggestions for improvement, and also monitors the work done in each department in accordance with the college timetable and workload profile.
- Monthly meetings of the Staff Council and the Academic Council discuss all the academic matters, and draw up schedules to make the teaching-learning and evaluation process a smooth one.
- The Teaching Plan is drawn up individually by each teacher, and recorded in the Teachers' Diary. This incorporates the Lesson Plan and the hour-wise division of work and earmarks the topics to be allotted to the students for assignments and seminars, and to advanced learners for lectures and group discussions. This Diary is submitted to the Head of the Department and the Principal every month for evaluation.
- Attendance is taken every hour by the teachers. 25% of the Internal Assessment marks are based on the attendance of the students. The monthly attendance is displayed for the students. This is also recorded in the progress report.
- The Annual Progress Certificate with details of attendance is prepared and sent to the University to obtain the sanction for the students to appear for the external exams.

- The Examination Committee draws up the exam time table, allots exam halls to candidates and invigilation turns to teachers, and gets the question papers printed.
- After each examination, the tutors prepare progress reports, which are duly signed by the Principal and then handed over to the parents at the departmental PTA meetings.
- The Evaluation Blueprint is prepared by each department. The Internal Examination Question papers are modelled on the University Question paper, with corresponding grades and marks based on Easy, Moderate and Difficult Levels. The evaluation is carried out correspondingly, in an objective manner.
- The internal assessment marks/grades are arrived at on the basis of 4 criteria- Attendance, Assignment, Seminar, and Tests. The internal assessment coordinator of each department maintains a record incorporating the dates of the internal exams, seminar presentations and the deadlines for the submission of assignments, as well as seminar topics allotted and marks/grades secured by each student. These mark lists are subsequently forwarded to the University.

### *2.3.2 How does IQAC contribute to improve the teaching –learning process?*

- The IQAC conducts the Internal academic audit twice a year to assess the Teaching-Learning process. Each department submits its half yearly report to the IQAC.
- The IQAC meets every month to analyse the performance of the college on all fronts. Suggestions for improvement are subsequently conveyed to the faculty at the Academic Council meetings.
- The AQAR and the Newsletter “Profile” published annually serve the purpose of an index of the teaching–learning process.
- The external members of the IQAC suggest ways and means of improving the academic performance of the staff and students.
- The IQAC also makes recommendations to the college Management on the steps to be taken on infrastructure development, curriculum changes and staff deployment, so as to improve the Teaching –learning process.
- Student feedback is analyzed by the IQAC to make constructive changes in the curriculum and the teaching - learning process.
- The IQAC organizes seminars on quality improvement with assistance from the UGC and NAAC.
- It also guides the faculty to apply to the UGC and other agencies for sanction and funding of Projects and Seminars.
- At the beginning of the academic year, the IQAC coordinator addresses the students as part of the Orientation programme given to each new batch.
- The Frontier Lecture Series of the IQAC expose students to the latest trends in each discipline of study.

### *2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?*

The learning is made student centric through interactive lectures and appropriate strategies adopted by the faculty to cater to diverse needs, and the introduction of new methods of teaching.

- Group work and seminar presentations by the students give the students more space in the academic programs of the college. These facilitate interactive and collaborative learning.

- The Project work that is a mandatory part of both the UG and PG courses enables the faculty to guide the students individually, and facilitates independent work on the part of the students.
- Student feedback is sought regularly in order to incorporate the needs and demands of the students in teaching and learning. The Action Plan drawn up by each department takes into serious consideration the analysis of the student feedback.
- The practice of academic adoption of weak students by the advanced learners ensures individual participation in the learning process.
- The activities of the various clubs, the Add-on courses and the extension activities facilitate the practical application of the lessons taught and instill in the students vocational and life-skills that can make them competent and self-reliant
- Students are trained in Research Methodology through the organization of seminars, involvement in project works, and research-paper presentation competitions conducted by the R&D Cell.
- They are also given proper guidance in the use of knowledge resources like the library, advanced journals and the Infilbnet. These efforts equip the students with effective knowledge management skills.
- Off Campus lectures, study tours, inspiring talks by eminent scholars and specialists, academic and career counselling given by the teachers, alumni and the Career Guidance Cell give the students wider exposure.
- Internships are encouraged to make students more self-reliant.

*2.3.4. How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?*

The teaching- learning process is made dynamic and holistic in order to nurture critical and innovative thinking and scientific temper among the students.

- Students are allotted topics of current and social relevance, and topics beyond the textbooks, for their project work, seminar presentations and assignments. They are encouraged to refer to advanced journals, both printed and online.
- The R&D Cell organizes programmes every month, where the students are given the opportunity to present papers on topics of the latest significance in their subjects.
- Each department organizes programmes suitable for the specific subject, to encourage original, out-of-the-box thought and action. These include debates, book reviews, literary hours, dramatization of lessons, quizzes, management fests, and organization of exhibitions.
- Students are motivated to carry out Summer Projects in reputed research centres and to visit centres of higher learning in various disciplines, where they get to interact with the best brains in each field of study.
- Students are also engaged in the project works undertaken by each department.
- The College Magazine and the Manuscript magazines brought out by the students of each department encourage the creativity of the students.
- Creative writing workshops organized by the Language departments nurture the latent potential of the students.
- The Association activities of each department are fully organized by the students under the guidance of the faculty. These provide the right platform for students to engage in innovative thinking and creative expression.

*2.3.5. What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through*

*Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.*

Students are guided to refer to e-learning resources available on INFLIBNET. Informatics in part of the syllabus of each programme offered by the college. Faculty members download lectures and other learning material from NPTEL in order to improve the teaching process – screened for students. LAN facility was installed in the college under the NME-ICT Scheme. In association with M/s Edunet, the college offers virtual teaching to students undergoing training for competitive exams. Students are guided to enrol for subject related certificate courses through portals like Coursera and NPTEL. PHAST, Origin, SPSS, Matlab, Bootstrap Analysis and Mathematica software are some of the other technological facilities available for use by the faculty.

*2.3.6. How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?*

The faculty members have linkages and affiliations with the various centres of advanced learning in their subjects. Participation in the programmes of these centres of excellence has a direct bearing on enhancing the teaching-learning process in the college.

The process of teaching and learning is made to incorporate a combination of various methods – lecturing, interactive learning, digital, online and virtual. Videos of eminent lectures available online are downloaded and presented to make the classes more effective and global in orientation.

Participation of students in Summer Research programmes of TIFR, in the archaeological excavations undertaken by external agencies, and in the various Management, HRD and Tourism programmes of the District Administration are just a few instances where students get exposure to advanced levels of knowledge and skills.

Students and faculty attend seminars and workshops to be in the know of the latest advancements in each discipline. The departments also organize seminars and workshops and lectures by experts periodically, with funding from external agencies. The Major and Minor Projects taken up by the faculty are also related to the frontier areas of various disciplines.

The R&D cell of the college organises Paper Presentation sessions by faculty and students in the latest areas of research. The Frontier Lecture Series organised by the IQAC facilitates discussions on recent trends in each subject. In collaboration with APT -the Association of Physics Teachers, the Dept.of Physics organises expert lectures and workshops in advanced areas for PG teachers

*2.3.7. Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/mentoring/academic advise) provided to students?*

Under the tutorial system, all the students of the college benefit from the various support services provided by the college. These include academic mentoring, personal counselling, psycho-social support and career guidance. The students are encouraged to do internships in organisations linked to their discipline.

The special support facilities available to the students are the Career Guidance Cell of the college, a trained psychological counsellor, Jesus Youth programme, the weekly Value Education classes and the Life Guidance classes organized annually. Over the last five years, 1008 students have availed the psychological counselling facility. The Value Education examination conducted in the college adds an extra dimension to the efficacy of the weekly value education classes.

Financial support is extended to the students through various institutional scholarships and freeships and food coupons. All the departments have the book bank system to enable students from low income groups continue their education.

*2.3.8. Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?*

Faculty members constantly seek to innovate their teaching and evaluation methods. The Chalk and Talk method is supplemented with the use of Audio-Visual aids, digital resources, seminar presentations by students, quizzes and experiential learning.

To make the teaching-learning process most effective, the teachers follow a judicious mixture of various methods.

- The lecture method is effectively supplemented with interactive methods like group - discussions or debates.
- Projects allotted to the students, the seminar method, quizzes, exhibitions and study tours have been found to be very effective methods of teaching and learning.
- Experiential Learning through interaction with expert practitioners, is provided as often as possible. Some of the training sessions organized during the last four years include training in Plant Tissue Culture(Botany), Share Market Trading (Commerce), Manufacture of LED Bulbs and Maintenance of Household Appliances (Physics) and Visits to Tribal Villages in Wynad (History).
- Visits to other centres of learning -- Students of the Science Departments visit institutions like the IISR, NIT, CWRDM, CMFRI and ZSI. Arts students visit libraries, research centres, museums, archaeological sites and other places of historical, cultural and sociological importance. Commerce and Business Management students visit the IIM, industrial establishments and other business ventures. The Travel & Tourism students undergo mandatory Work-place Training in Tour Operations, Ticketing and Hotel Management.
- Films based on prescribed texts, historical films and those based on the lives of important personalities in various fields, are screened regularly, to give the students a better learning experience.
- Club activities and Extension activities of each department are channelled according to the subject, thereby adding greater zest to the learning process.
- The evaluation of teachers by the students demands constant upgrading of the pedagogical methods used by the teachers.

*2.3.9. How are library resources used to augment the teaching- learning process?*

The library is updated periodically to meet the needs of the evolving curriculum patterns. Students are encouraged to utilize the print, electronic and digital resources available, with the allocation of challenging topics for assignments and projects. Subscription to INFLIBNET is a major boost to the students. The library subscribes to some of the most reputed journals in various disciplines – the EPW, Indian Historical Review, Indian Literature, Resonance, Pramana, and Current Science. There are a good number of Career Guidance Journals also. The college Union observes a Reading Week in the month of June every year, and also award a prize to the best reader among the students, based on their use of the library resources.



2.3.10. Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

The frequent interruption of the semesters by University examinations and valuation camps is the major challenge faced in completing the curriculum within the stipulated time. The working hours thus missed are compensated with measures like Zero-hour classes and Special classes during Saturdays. Since there are no other internal factors like strikes within the campus, the institution manages to complete the curriculum on time.

2.3.11. How does the institute monitor and evaluate the quality of teaching learning?

The quality of teaching and learning is monitored meticulously by the half yearly academic audit by the IQAC and the inspection by the Apostolic Carmel Education Society every alternate year. Based on the Student feedback received annually, the departments and the individual teachers carry out a SWOC analysis. The results of the outgoing batches are analysed annually. Remedial and corrective measures are promptly taken on the basis of the findings.

## 2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.				4	-	15	19
M.Phil.				3	-	6	9
PG				4		27	31
Temporary teachers							
Ph.D.						1	1
M.Phil.						8	8
PG					1	10	11

The members of the faculty are selected strictly in accordance with the norms of the UGC, the University of Calicut and the Government of Kerala. The Managing Governing Body notifies the vacancies in leading newspapers upon receiving Government concurrence. A personal interview is conducted by a duly constituted board a month after the publication of the notification.

- Priority is given to academic qualifications and achievements, and research activities. Among the 8 appointments made during the last 4 years, 3 candidates have Ph.D. Degree, 4 have M.Phil degrees and 3 of them are pursuing research. Priority is given to select candidates from various areas of specialization so as to diversify the research activities of the institution.
- For the self-financed courses, the management of the college appoints Assistant Professors on contract basis who have the sufficient qualifications and fare well at the interview conducted by the Principal and a senior member of the department. These teachers are given financial perks and made permanent by the management when they acquire higher academic qualifications / experience.

- The faculty are motivated and given the freedom to pursue research, to apply for FDP, be affiliated with professional and academic bodies, and to publish papers.
- The College has the required number of qualified and competent teachers to handle the courses offered.

*2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.*

Teachers competent to handle modern areas of study are appointed on the basis of their specializations and research work. They undergo further training and attend Refresher Courses in their respective disciplines to teach new programmes. Talks by eminent resource persons are arranged in order to meet additional needs. The close link that the college maintains with the association of retired teachers – PART- is an asset, and the expertise of these retired teachers is frequently sought for talks and classes.

*2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.*

a) Nomination to staff development programmes

AcademicStaffDevelopmentProgrammes	Numberoffaculty nominated
Refreshercourses	22
HRDprogrammes	7
Orientationprogrammes	16
Stafftrainingconductedbytheuniversity	6
Stafftrainingconductedbyotherinstitutions	9
Summer/winterschools,workshops,etc.	6

Teachers are encouraged to avail the FDP and to participate in Orientation and Refresher courses. The institution provides all support to the faculty members availing FDP, to get their papers cleared.

*b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning*

- Teaching learning methods/approaches – Seminars on Quality Improvement are conducted every year by the IQAC.
- Handling new curriculum – Seminars are organized by each department to enhance expertise in handling new curriculum. The Physics department, in association with APT –The Association of Physics Teachers conducts training programmes every year. Specific training sessions have been organized by other departments in the use of new equipment and the Language lab. These include Bio-Rad, Holmarc, Shimadzu and Nucleonix.
- Content/knowledge management - The expertise of specialists in each discipline is sought

by the departments to be acquainted with the latest in Content and Knowledge management.

- Selection, development and use of enrichment materials – Teachers participate in workshops to get trained in research methodology, Quantitative and Statistical Analysis, archaeological excavations, digital language learning, agricultural bioinformatics, biotechnology, Nanotechnology, ICT in research and in the use and development of enrichment materials including software like PHAST, Mathematica, Astrosat, IRAF
- Assessment – Various training programmes have been organized by the college to help the faculty get initiated to new assessment methods. Teachers have also attended workshops to get trained in using digital technology for new ways of assessment.
- Cross cutting issues – The college has organized training programmes and talks by experts on Legal Literacy, Subaltern Studies, Cyber security and crime, Gender and Environmental issues.
- Audio Visual Aids/multimedia – The college organized workshops in the use of Smartboards, Blackboard software for online teaching, etc.
- OER's – Teachers constantly strive to update themselves in the use of newer electronic resources to improve their teaching and develop teaching material. For research work, software like Heasoft and Xspec are used.
- Teaching learning material development, selection and use –Textbooks Distance Education Notes, Chapters in international publications from CRC, Elsevier, Humana Press and Springer EMMRC, VMC, Spiritual lessons

c) *Percentage of faculty*

- *invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies - 25%*

*Participated in external Workshops / Seminars / Conferences recognized by national / international professional bodies -100%*

- *Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies – 75%*

These details are published in the IQAC Newsletter *Profile*, released annually.

2.4.4 *What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)*

The Management facilitates the professional development of the faculty by:

- Encouraging faculty to pursue higher studies and research and appointing substitute teachers in FDP vacancies at the earliest.
- Providing infrastructure facilities for Major and Minor projects undertaken by the faculty.
- Permitting faculty to attend national and international seminars and encouraging them to become members of Professional and Academic bodies.

- Extending financial aid and providing the infrastructure facilities for the smooth conduct of seminars and conferences.
- The college also provides facilities for the Research Scholars of the teachers who are approved Guides and to the researchers of the Women Scientist Scheme of DST.
- Arranging Quality Improvement Seminars to facilitate interface meetings with experts in various fields and providing links to various national and international schemes and programmes available for advanced studies, travel and opportunities abroad.

During the last two years, one faculty member has availed the FDP facility, three teachers have availed infrastructure facilities for their Projects and all have participated in seminars/conferences.

*2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.*

No major award has been won by any faculty member for excellence in teaching. Many faculty members are recognized and invited as experts and resource persons for seminars and conference at the state and national level. Dr. Sini R and Dr. E. Julie have been recognized as the best NSS officers of the state for the year 2014-15 and 2015-16 respectively

*2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?*

Yes, the college has the mechanism for evaluation of teachers by the students. The IQAC has prepared the questionnaire for this purpose. The whole process is computerized, and the software for this has been developed by the Computer Science Department.

The feedback results are communicated to the teachers individually, and to the department. These are analysed thoroughly and referred to when the action plan of the department and the individual teacher is drawn up the next academic year.

This exercise has proved to be of immense benefit in improving the quality of teaching and learning.

## **2.5 Evaluation Process and Reforms**

*2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?*

The evaluation methods adopted in the college are communicated to the students through the students' handbook, PTA General Body Meetings and the Orientation classes given at the beginning of the course. There is no dilution of the evaluation process at any stage, and consequently, students imbibe the significance of the evaluation process as soon as they are inducted into the rolls of the college. Parents attend the Evaluation meetings at the end of each semester to assess the students' progress. Faculty members are involved in every stage of the evaluation process, from planning to execution.

*2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?*

The University introduced the Choice Based Credit Semester System in the year 2009. Grading system of evaluation had been introduced as part of this programme. The University shifted to Indirect Grading from the year 2014. The college has altered the pattern of internal assessment in accordance with this plan. The college has a well structured mechanism for the conduct of internal exams, held twice every semester, with a proper schedule drawn up for it. The faculty also allot topics not covered by the syllabus for seminar presentations by the students, as part of internal assessment.

*2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?*

The college strictly adheres to the examination calendar of the university. Two Internal Exams per semester are conducted by the departments. The dates for these are notified in the Academic Calendar printed in the Students' Handbook at the beginning of each academic year. Students are properly oriented at the beginning of their course of study on the evaluation process. The marks are entered in the progress reports to provide ease of measuring the students' progress through their years of study. These report cards are handed over to the parents at the end of each semester. Retests are conducted for those who miss the exams for unavoidable reasons, and for those who do not clear the tests in the first attempt.

*2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.*

Formative assessment of the students is done from the very beginning of the programme that the student joins. The Bridge Course conducted by the departments helps to identify the slow and advanced learners of each programme. Steps are taken to help the weak students by the methods of one-to-one academic adoption and remedial coaching. The continuous evaluation, seminar presentations and internal exams conducted each semester enable the teachers to make a formative assessment of the students. A steady improvement has been noticed in the academic performance of the students over the semesters of study.

Summative assessment of the students is achieved through the analysis of their Project work and performance in University exams. Many of the students who have fared well in their summative assessment are currently employed in professions that justify their academic achievements.

The results of the formative assessment are analysed and discussed at the PTA meetings. Remedial teaching is provided to those in need, and these efforts have directly resulted in improvement in Summative assessment.

Appropriate measures like arranging extra classes with external faculty in Statistical Software for PG students. Informatics for BA students and Chemistry remedial for Life Sciences students have significantly improved the results in these subjects.

*2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.*

Internal Assessment is carried out with utmost rigor and transparency, in the most impartial and transparent manner. At the beginning of each semester, the dates for the two internal exams are announced. The marks or grades, calculated on the basis of Attendance, Seminars, Assignments

and Tests, are scrutinized by the Teacher in charge, the Head of the Department and the Principal. They are then displayed on the notice boards before the students appear for their external examinations, and before they are forwarded to the University.

Department wise PTA meetings are organized to hand over the progress report of the student to the parents. This system has proved to be very effective, as can be seen from the improvement in student performance over the last five years. The number of students not appearing for these exams is negligible. Retests are conducted for the students unable to appear for the exams due to their participation in intercollege competitions, due to illness or any other personal reason.

The Internal Assessment evaluates not only the academic performance of the students, but also gives due credit to behavioural aspects and soft skills. Appropriate seminar and assignment topics, based on topics outside the textbook, are assigned with the specific objective of enabling the students to learn and think independently. These are designed to improve their soft skills, communication skills, Interpersonal skills and social commitment. The Internal exams have been found to improve the confidence levels of the students, and to lead to their development as individuals.

Students are suitably recognised and rewarded for their all round performance and involvement in the college programmes, with prizes instituted by the college, the various departments, the alumnae and other well wishers.

These measures have proved effective in building up the social commitment and overall personality of the students and enabling them to play catalytic roles in the world outside.

*2.5.6 What are the graduate attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?*

The Graduate attributes of the University of Calicut are

- i. Excellence in Education
- ii. Fostering Quality Human Resource
- iii. Promoting Productive Research that benefit both the local community and wider humanity.

The Curriculum adopted by the college is totally aligned with these objectives. The academic and extra curricular programmes of the college are aimed at educating and empowering young girls who will play significant roles as agents of positive transformation in the society.

*2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?*

The transparency of the examination system adopted in the college enables the students to seek redressal for any grievance whatsoever, related to evaluation. Students are permitted to discuss the matter with the teacher concerned. Discussions with the tutors sort out the grievances in the most effective manner.

In the event of any grievance at the level of the university exams, the tutor and the department take up the matter, get it forwarded by the principal, and try to resolve it with the examination wing of the university. The University offers facilities for Revaluation, Recounting and to obtain Photocopies of answer papers.

## **2.6. Student Performance and Learning Outcomes**

*2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?*

The objectives envisaged by the college – namely, the holistic development of the individual, and the transformation of young girls into responsible adults and agents of social change – are clearly stated in the Vision and Mission Statement of the college. The teaching programmes of the college have the following as the learning outcomes:

- i. Proficiency in the chosen subject of study
- ii. Motivation to pursue higher studies and research in the field
- iii. Developing the skill quotient of the students
- iv. Perfecting the employability skills of the students and guiding them towards appropriate careers
- v. Developing the critical thinking, scientific reasoning, environmental awareness, social commitment and overall personality of the students and enabling them to play catalytic roles in the world outside.

The students and staff are constantly made aware of these through various means – the college prospectus, website, handbook and other publications. These are also highlighted at the Orientation programme given to each new batch of students, and during the tutorial sessions. Each of the curricular, co curricular and extra curricular activity of the college is designed to meet these targets.

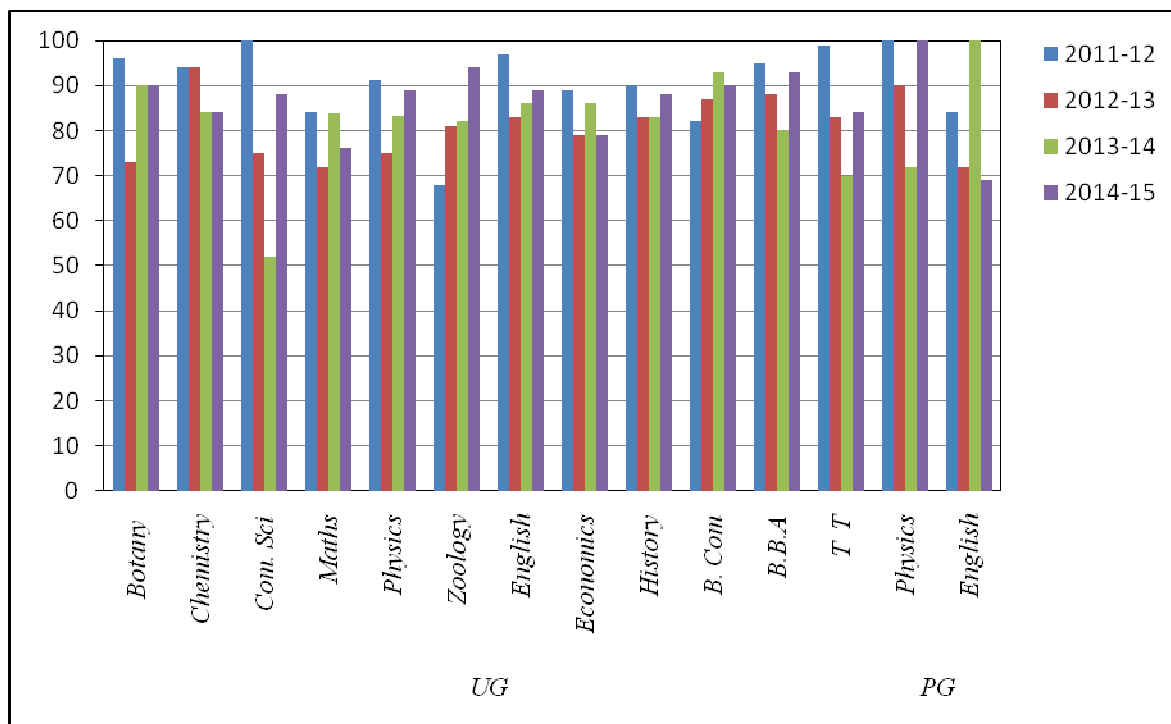
These objectives are the focal point at the discussions of the Academic and the Staff Council, where the Principal reminds the faculty of the noble mission that the college undertakes. Newly appointed teachers are given a two-day orientation programme by the Apostolic Carmel Education Society to induct them into the mission.

*2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students' results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.*

Student progress is monitored through tests and exams conducted periodically.

- The progress reports, signed by the tutor and the Principal, are handed over to the parents at term / semester wise departmental PTA meetings.
- Internal and external exam marks are analyzed and recorded in the departments, and remedial coaching given to weak students.

The analysis of the results of the last four years proves that there is improvement in the performance of the students across the semesters.



### 2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The teaching, learning and assessment strategies are structured in such a way that the learning outcomes are achieved. The college strictly adheres to the academic calendar of the university, and the action plan of each semester is drawn up in accordance with it. The college gives utmost priority to the smooth, uninterrupted conduct of classes. Since a Day-wise timetable is followed instead of a weekly one, there is no loss of days. The Examination wing of the college prepares the schedule for the two internal exams in each semester. The Add-on and Certificate courses, the R&D Cell, the activities of the various clubs, the Career Guidance Cell and the NCC and NSS Units and other extension activities further ensure the attainment of the learning outcomes.

### 2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

The college gives great priority to enhancing the social and economic relevance of the courses offered. Career guidance sessions are organized periodically by each department. The alumnae of each department are invited to interact with the students and give them tips on career planning. The Career guidance and placement cell functioning in the college arranges job fairs in collaboration with recruiting agencies and companies.

Students are encouraged to do Internships in organisations outside the college. Each department maintains close links with the industries and fields of enterprise related to the subject of study.

Entrepreneurship is instilled in the students through the EDP of the Commerce department. Students are given training in the manufacture of many products.



The R&D Cell conducts various programmes to enthuse the students towards research and innovative thinking. Departments also coordinate student visits to centres of higher learning in each discipline, to expose them to new trends and research opportunities.

*2.6.5 How does the institution collect and analyse data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?*

The results of the internal tests, and the scores for the seminar presentations and assignments are filed by the tutor. This facilitates easy and prompt analysis of the learning outcomes. These are also reckoned in the formulation of the action plan for each semester. Books and journals have been added to the collection in the library based on these analyses.

The college has been able to remove barriers to learning on the basis of these and the feedback collected from students at the end of their course of study. The major barriers of learning are economic, psychological and linguistic. Scholarships, freeships, and financial support given by the faculty have reduce the economic barriers. Remedial coaching and counselling are provided to remove the psychological barriers of learning. Extra classes are given to students from the vernacular medium schools who find it difficult to cope with the medium of instruction.

*2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?*

The Half yearly report compiled by the IQAC maintains the standard and rigour of the academic process. The method of recording each students' academic progress through the course of study in the college enables the tutors to monitor the learning outcomes of the curriculum. Certificate course appropriate to industry needs are designed to achieve the desired learning outcomes.

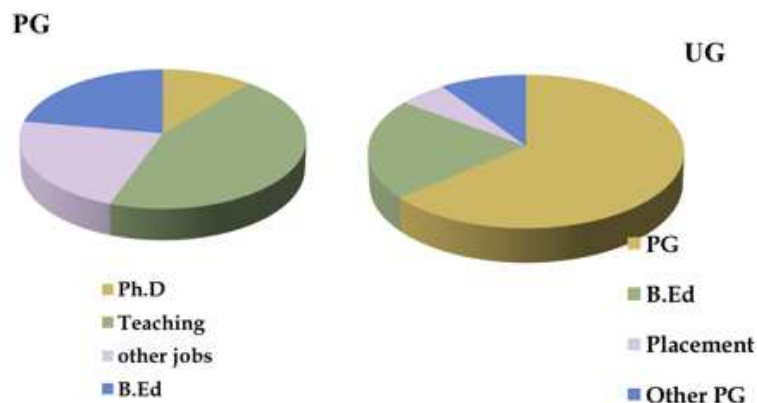
The feedback collected from students, alumnae, parents and other stakeholders also serves this purpose. The discussions at Parent Teacher meetings and the views expressed by external examiners form other institutions during viva voce exams are taken into account to ensure that the learning outcomes are fulfilled.

Two instances that highlight the fulfilment of the learning outcomes are: (i) Three of the students,Shahanaz E, Ashitha and Catherine John got admission in the Tata Institute of Social Sciences because of the Learning through Service orientation they got through their involvement in the NSS activities of the college.(ii) Shyama Varier did a Summer Research Project at Tata Institute of Fundamental Research during theMSc Physics programme, and was selected for the Ph.D. programme of the institute.

*2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.*

Yes, the institution and the individual teachers use assessment/ evaluation outcomes as indicators for evaluating student performance, and in planning for enhancing the learning outcomes.

## Student Progression and Placement Records



*Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.*

The highlights of the Teaching-Learning programmes of the college are

- The opportunity for education in a reputed institution, the first of its kind in North Kerala, with a glorious history of 65 years behind it.
- Transparency in the enrolment process ensures admission for students belonging to all classes and categories, particularly from the rural areas and backward communities, thereby boosting the higher education prospects of women.
- Regular, uninterrupted classes in a calm and serene ambience, without any loss of working hours or days of the timetable.
- Appointment of teachers strictly on the basis of merit, giving due weightage for research work and publications.
- Systematic work culture based on an Academic Calendar drawn up at the beginning of each year, with timely modifications in the evaluation process
- Holistic education that fosters critical thinking, research aptitude, gender awareness, environmental concern and social commitment.
- Extending the teaching –learning process beyond the textbook and the classroom, and practising learning through service to society.

### CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

#### 3.1 *Promotion of Research*

3.1.1 *Does the institution have recognized research center/s of the affiliating University or any other agency/organization?*

Yes. The Department of Physics is recognized as a research center of the University of Calicut.

3.1.2 *Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.*

Yes, the college has bodies like Apostolic Carmel Educational Society, the Internal Quality Assurance Cell and the Research and Development Cell, to monitor and address the issues of research.

- Composition and objectives of monitoring bodies
  - a. The Apostolic Carmel Educational Society (ACES), is composed of the Provincial of the Southern Region (President), First, Second (Education Secretary), Third and Fourth Councilors to the Provincial and the Principal (Secretary of the Governing Body). The ACES motivates the faculty to get more involved in research. All the necessary support in terms of infrastructure and technology is made available to researchers by the ACES.
  - b. The IQAC is composed of the Principal, coordinator, management representative, five faculty members, student representative, and external members from various fields. IQAC insists on greater research orientation as a step towards quality enhancement. It also encourages the faculty to take up research projects, and forwards to the UGC and other agencies, the proposals for major and minor research projects.
  - c. The R&D cell is composed of a Coordinator, an Executive Committee comprising 2 senior teachers, along with staff and student representatives from all departments. It aims to create awareness among students about the recent developments in various disciplines, motivate students to participate in research oriented activities and to guide the faculty in undertaking externally funded research projects.
- Recommendations made by the committees for implementation and their impact.
  - a. Apostolic Carmel Educational Society:
    - Promote the culture of research in its institutions
    - Improve infrastructure and communication facilities.
    - Encourage teachers and students to take up research projects.

Recommendations made by ACES have created a research ambience in the institution.

- b. IQAC:
  - Motivate faculty to undertake more externally funded projects.
  - Improve infrastructure of research labs through external funding
  - Organize national /international seminars/ symposia/ workshop etc. with external funding.
  - Organize frontier lecture series by the faculty involving the presentation of topics of current interest.

The recommendations of IQAC have resulted in implementing 2 major and 10 minor research projects during the last five years. Infrastructure of the research labs has

improved through external funding from FIST, UGC etc. At least 3 lectures are delivered as a part of frontier lecture series annually.

c. R&D Cell:

- Encourage students to participate in seminars
- Encourage students to publish their findings
- Send students for paper presentation competitions outside the campus
- Organize interdepartmental paper presentation competitions
- Organize students' seminars

The R&D Cell has facilitated, over the last five years, increase in the number of publications by faculty, number of research projects undertaken, and student participation in research activities. Recommendations made by the R&D Cell have created a research culture on the campus.

3.1.3 *What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?*

- *Autonomy to the Principal Investigator*- The PI is given complete freedom to make purchases and complete the project in an independent manner.
- *Timely availability and release of resources* - The amount received is handed over to the PI who makes the purchases of required items and keeps account of the grant utilized.
- *Adequate infrastructure and human resources*- Adequate infrastructure and other facilities like project rooms, new equipment etc. are provided by the institution. The institution encourages the inclusion of selected students and research assistants as per the requirements of the project.
- *Time-off, reduced teaching load, special leave etc. to teachers*- The management sanctions leave to faculty members under FDP and appoints substitute teachers. As per government rules for affiliated colleges, there is no provision for time-off and reduced work load.
- *Support in terms of technology and information needs* - Internet connectivity, access to INFLIBNET and e-journals, and all the necessary technological support is available to the principal investigator
- *Facilitate timely auditing and submission of utilization certificate to the funding authorities* - The management and the authorities ensure timely auditing and settling of the accounts with the funding authorities.

3.1.4 *What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?*

The institution motivates students to participate in research-oriented activities and encourages the faculty to design the curricula so as to offer such opportunities. Through the faculty, awareness is created among the students on the ongoing research projects of the department. Student participation is further enhanced by

- Exposure to research centres like IIM-K, IISR, NIT, CWRDM, CMPR etc.
- Interaction with scholars and off-campus lectures in centres of higher learning and research
- National/International seminars in every subject
- Motivating them to present their findings in national/ international seminars
- Encouraging them to publish their research findings in reputed journals
- Implementing programmes like 'Walk with the Scholar', to motivate advanced learners.

- Conducting talks on research methodology and research opportunities
- Encouraging participation in off-campus seminars, symposia and summer fellowship programmes in premier institutions
- Conducting presentation competitions on recent developments in every subject at the intercollegiate /college level
- Observing days of relevance like National Science Day, World Wetland Day, World Environment Day, Statistics Day, Consumer Rights Day etc.
- Motivating the students by organizing the presentation of the UG and PG project works and their findings, by the senior students
- Organising exhibitions on recent trends in every subject
- Conducting Science Fest and Management Fest
- Conducting competitions in various fields (working models, still models, poster making etc.)
- Encouraging students to participate in 'Best Dissertation competition' in humanities and social sciences

3.1. 5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.)

Faculty recognized as research guides:

- Dr. Minoo Divakaran (Environmental Science - MG University; Botany - University of Calicut)
- Dr. Sreekumari S.(Malayalam) - University of Calicut, Kerala Kalamandalam Deemed University
- Dr. Jeena K.(Physics) -University of Calicut

Faculty guiding Research Students

Sl No	Research Guide	Student	Programme & Year of registration	Broad area
1	Dr. Minoo Divakaran	Saranya Babu Jayaprakash (Full time research scholar)	PhD, 2014	Botany
2	Dr. Minoo Divakaran	Sreeranjini (Full time research scholar)	PhD, 2014	Botany
3	Dr.S Sreekumari	Bindu MK (Asst. Prof., SN College, Chelannur)	PhD, 2013	Malayalam
4	Dr.S Sreekumari	Arya Surendran (HSST, Ayrur, Malappuram)	PhD, 2013	Malayalam
5	Dr S Sreekumari	Sumitha (Full time research scholar)	PhD, 2013	Malayalam
6	Dr.S Sreekumari	Sreekala CE (Full time research scholar)	PhD, 2013	Malayalam

7	Dr.S Sreekumari	Shiju (Asst. Prof., Silver Arts & Science College, Balussery)	PhD, 2016	Malayalam
8	Dr.S Sreekumari	Beena (Editorial Asst., Kerala Bhasha Institute)	PhD, 2016	Malayalam

#### Faculty guiding UG & PG research projects

All faculty members guide UG & PG research Projects as part of the curriculum.

#### Faculty Research projects

The faculty members seek external funding to support their research interests. The following Faculty Research Projects are funded by different agencies as given below:

Research projects completed

12 (UGC funded-11; KCHR funded-1)

Research projects ongoing

Major Research Projects: 1- KSCSTE funded

Minor Research Projects: 1(UGC funded – 1).

Collaborative Research Projects: 1 SERB funded – in collaboration with IUCAA, Pune.

Details are provided in 3.2.7.

*3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbining research culture among the staff and students.*

Sl No	Title of workshop/ training programme/ sensitization programme	Beneficiary	Funding Source	Nature
Science Section				
1	Workshops cum exhibition on Silk Mark & Sericulture (Zoology)	Teachers and students	Central Silk Board	State level
2	Workshop on Solar Astrophysics (Physics)	Teachers and students	RSC and IUCAA	National level
3	Workshop on Statistical Tools in Medical Research (Statistics)	Teachers, research scholars and	KSCSTE	National level

		students		
4	Workshop on Molecular Biology (Botany)	Teachers and students	Internal funding	Institution level
5	Workshop on Bioinformatics and Drug Designing (Botany)	Teachers and students	Internal funding	Institution level
6	Workshop on Biological Applications of Statistics (Botany)	Teachers and students	Internal funding	Institution level
7	Workshop on Preserving Nature through Brush Strokes (Botany)	Teachers and Students	DoECC (Bhoomitrase na)	Institution level
8	Analytical Chemistry (Chemistry)	Higher secondary students	Internal funding	State level
9	Three day workshop on Group Theory (Physics)	Teachers	Academy of Physics Teachers (APT)	National
10	APT series in Experimental Physics (APTSEP) workshop (Physics)	Teachers at Post graduate level	APT	National
11	Workshop on Multiwavelength Astronomy (Physics)	Researchers, Teachers & students	IRS, Cochin & IUCAA, Pune	National
12	One day seminar on Foundations of Quantum Mechanics (Physics)	Students and Teachers	KSCSTE	State
13	Three day workshop series in Electrodynamics (Physics)	Teachers	APT	National
Arts Section				
14	Academic Writing (English)	Staff and Students	Department Fund	Institution level
15	Stock Markets (Commerce)	Students	Department Fund	Institution level
16	Research Methodology in Humanities (English)	Staff and Students	Department Fund	Institution level
17	Digital Explorations in	Staff and	Department	Institution

7	Graphic Narratives (English)	Students	Fund	level
1 8	Reading in the age of Digital Media (English)	Staff and Students	Union Fund	Institution level
1 9	The Bible and Literature (English)	Staff and Students	Department Fund	Institution level

3.1.7 *Provide details of prioritized research areas and the expertise available with the institution.*

**Botany:** Environmental Science, Conservation of Genetic Resources in the Wake of Climate Change, Floral Diversity; Biotechnological Tools for Crop Improvement, Taxonomy, Cell Biology

**Zoology:** Taxonomic Studies and Biosystematics, Biodiversity of Mantid Fauna of Western Ghats

**Chemistry:** Water Chemistry, Theoretical and Computational Chemistry, Corrosion Chemistry, Polymer Chemistry

**Physics:** Materials Science, Astronomy and Astrophysics, Nuclear and Radiation Physics, Black Hole Physics, Ultrasonic Technology

**Mathematics:** Graph Theory, Fuzzy Set Theory, Small Area Estimation

**Computer Science:** Natural Language Processing, Networks, Data mining

**Economics:** Developmental Economics. Land economics

**History:** Folklore studies, Dalit studies

**Commerce:** Marketing, Green Banking

**Business Management:** Finance, Human Resource Management, Marketing

**Travel & Tourism:** Tourism, Finance, Aviation

**English:** Women's Studies, Eco-feminism, Cultural Studies, Film Studies

**Malayalam & Hindi:** Cultural Studies, Linguistics, Feminism, Socio Cultural History

3.1.8 *Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?*

The institution gives top priority to invite researchers of eminence to visit the campus and interact with teachers and students.

Some of the eminent researchers who visited the campus during the last five years are the following:

1. Prof. P K Gupta (Indian National Science Academy Scientist, Meerut, Uttar Pradesh)
2. Dr. NS Raju (Dept. of Microbiology, Mysore University, Karnataka)



3. Dr. Lalitha Vijayan (Senior Principal Scientist, SACON, Coimbatore, Tamil Nadu)
4. Dr. Sayuj K P (Research Fellow, CIRAD, de la Reunion, France)
5. Dr. Rebijith (Research Fellow, ICHR Bangalore, Karnataka)
6. Dr. PM Varrier (Addl. Chief Physician, Arya Vaidya Sala Kottakkal, Kerala)
7. Dr. Indira Balachandran (Director, CMPR Kottakkal, Kerala)
8. Dr. Geetha S Pillai (Scientist, CMPR Kottakkal, Kerala)
9. Dr. Aswathy G (Amritha School of Nanosciences, Kochi, Kerala)
10. Dr. U C Abdul Jaleel (PI, OSDD, ChEMI informatics Centre, MCC Kozhikode, Kerala)
11. Dr. A Achuthan, (Rtd Prof., NIT Kozhikode & Environmental Activist, Kerala)
12. Prof. PV. Madhusoodanan (Emeritus Scientist, Malabar Botanical Garden, Kozhikode, Kerala)
13. Dr. Prakash Kumar K (Director, Malabar Botanical Garden, Kozhikode, Kerala)
14. Dr. N. Sasidharan (Rtd Scientist, Kerala Forest Research Institute, Thrissur, Kerala)
15. Dr. ARR Menon (Emeritus Scientist, CED, Thiruvananthapuram, Kerala)
16. Dr. Anil Kumar (Director, Community Agrobiodiversity)
17. Dr. M. Anandaraj (Director, IISR Kozhikode, Kerala)
18. Dr. P.S. Easa (Director, Kerala Forest Research Institute, Peechi, Kerala)
19. Dr. Sinu PA (Asst. Professor, Dept. of Animal Science, Central University, Kasaragod, Kerala)
20. Dr. U. Unnikrishnan (Asst. Prof., Dept. of Environmental Science, Central University, Kasaragod)
21. Dr. Kunji Krishnan (Former HoD, University College, Thiruvananthapuram, Kerala)
22. Dr. T.V. Sajeev (Entomologist, Kerala Forest Research Institute, Peechi, Kerala)
23. Ms. Aman Deep Kaur IFS (DFO, Kozhikode, Kerala)
24. Dr. N B Narasimha Prasad (Director, CWRDM, Kozhikode, Kerala)
25. Dr. C Jayan (Prof., Dept. of Psychology, University of Calicut, Kerala)
26. Dr. Sreekumaran, (Assoc. Prof., University of Calicut, Kerala)
27. Dr. Beena Johnson, Clinical Psychologist & Nutritionist, Baby Memorial Hospital, Kozhikode
28. Dr. Joy (Scientist, NCL, Pune)
29. Dr. Sabu Thomas (Prof. and Head, Dept. of Nanotechnology, MG University, Kerala)
30. Dr. Gouri (Scientist, VSSC, Thiruvananthapuram, Kerala)
31. Dr. Shafi (Prof. and Head, Dept. of Chemistry, Calicut University, Kerala)
32. Dr. Sandhya Rani (Asst. Prof., NIT, Kozhikode, Kerala)
33. Dr. Chembakam (Principal Scientist, IISR, Kozhikode, Kerala)
34. Dr. Sheba Velathoor (Director, Core Valley Herbals, Kozhikode, Kerala)
35. Dr. Anila Mathew (Tokyo University, Japan).
36. Dr. Ranjeev Misra (IUCAA Pune)
37. Dr. Reji Philip (RRI, Bangalore)
38. Dr. Ravindra (Indian Institute of Astrophysics (IIA), Bangalore)
39. Dr. Aloysius R P (Senior Scientist, National Physical Laboratory, New Delhi)
40. Dr. Durgesh Tripathi (Inter University Centre for Astronomy and Astrophysics - IUCAA)
41. Dr. Girjesh Gupta (Inter University Centre for Astronomy and Astrophysics - IUCAA)
42. Mr. Shaneeth M. (Head, Fuel Cell Section, VSSC, ISRO, Thiruvananthapuram)
43. Dr. C.B. Sobhan (Prof., School of Nano Science and Tech. & Dept. of Mech. Engg, NIT Calicut)
44. Dr. M Sreekumaran Nair (HoD of Statistics, Manipal University)
45. Mr. Sharmedra (NSSO, Coimbatore)
46. Dr. C. Jaya Kumar (Dept. of Statistics, Calicut University)

47. Ms. Rajula (NSSO, Kozhikode)
48. Mr Abdul Rajab (Deputy Director of Economics & Statistics, Kozhikode, Kerala)
49. Dr. Abbas T.P (Asst. Prof., Central University, Kasargod)
50. Dr. Margret Frenz (St. Cross College, University of Oxford)
51. Prof. Kesavan Veluthat (University of Delhi)
52. Prof. Upinder Singh (University of Delhi)
53. Mr. KK Muhammed (Former Director, Archaeological Survey of India, Delhi)
54. Prof MGS Narayanan (Former Chairman, ICHR)
55. Prof. M R Raghava Varier (Eminent Historian)
56. Prof. Rajan Gurukkal (Former Vice Chancellor, M G University Kottayam)
57. Prof. Scaria Zacharia (Sree Sankara Sanskrit University)
58. Prof. KKN Kurup (Former Vice Chancellor, University of Calicut)
59. Dr. K Jayakumar (Vice Chancellor, Malayalam University)
60. Dr. P. Mohan (Prof., DCMS, University of Calicut)
61. Dr. Naveen C Amblee (IIM, Kozhikode)
62. Dr. Alice Mani (Christ University Bangalore)
63. Dr. KG Jose (Director, Rajagiri Business School, Kochi)
64. Dr. Toney K Thomas, -Taylor's University, Malaysia
65. Dr. B. Vijaya Kumar, Principal, KITTS, Trivandrum
66. Dr. Alexander Dunst (University of Potsdam, Germany)
67. Prof. Bhaskaran Nayar (Lincoln University, UK)
68. Dr. P. Ratheesh Radhakrishnan, (Dept. of Humanities and Social Science, IIT Mumbai)
69. Prof. MV Narayanan, (Dept. of English, University of Calicut)
70. Dr. Deepa Sreenivas, (Dept. of Women's Studies, University of Hyderabad)
71. Dr. Toney K Thomas (Taylor's University, Malaysia)
72. Mrs. Sheela E.K (Public Diplomacy District Officer, State Department, Washington DC)
73. P.K. Gopi (Poet)
74. Dr. K.V. Thomas (Well known critic)
75. Sri Kalpetta Narayanan (Eminent writer)

3.1.9 *What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?*

The University currently does not have the provision for sabbatical leave. Research is carried out by the faculty either on Part-time basis or utilizing the FDP scheme.

3.1.10. *Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)*

- Multiplication of economically important and endangered plants through tissue culture
- Making LED lamps
- Training on web designing
- Popularization and distribution of *Azolla* based biofertilizers
- Training in vermicompost making
- Installing pipe compost in the adopted colony
- Training in Mushroom cultivation
- Installing waste disposal units at Mental Health Centre

- Water quality analyses, in collaboration with Residents Associations
- Training in Roof top farming with Wick irrigation technology using plastic bottles.

### 3.2 Resource Mobilization for Research

3.2.1 *What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.*

The institutional budget makes provision for research and development by allocating funds for the following purposes:

Sl No	Heads of Expenditure	Financial Allocation	Actual Utilization
1	Upgrading library and computers	8,81,069	8,81,069
2	Laboratory equipment	9,92,113	9,92,113
3	Research journals	1,79,404	1,79,404
4	Seminars on new trends in various disciplines	9,17,000	8,78,000
	Other Sources: DST	59,50,000	57,32,803

3.2.2 *Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?*

The Management helps procure financial support from UGC and provides infrastructure facilities like project rooms and equipment for projects that involve lab work. It undertakes maintenance of laboratories for subject oriented research.

3.2.3 *What are the financial provisions made available to support student research projects by students?*

The students undertake research projects according to the priority areas identified by their departments. Most of the projects are department-initiated, without specific fund allocation.

3.2.4 *How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.*

- The Students and faculty of various departments interact in undertaking inter-disciplinary research in a very healthy way. Research papers have been published in this manner. Example:
  - Deena MJ (Faculty, Dept. of Botany), Suchithra E (Faculty, Dept. of Statistics), Divya M, Drishya K, Kavya C, Shamna P and Sariga P (Students, Dept. of Botany) (2015) Morphometric analysis of a few species of *Caesalpinia*. *Journal of Advances in Biological Sciences* 2(1-2): 22-25.
- Lab sharing between science departments:
  - Nanoparticles synthesized in Chemistry laboratory was used in the fabrication of conducting polymers in Physics laboratory.
  - Spectrophotometer in Physics lab is used by PG students of the Dept. of Botany
- Faculty members collaborate and undertake inter-disciplinary research. Paper presentations have been made at interdisciplinary seminars. Some examples are the following:
  - Dr. Minoo Divakaran, Dr. Jija Mathew, Ms. Reshnu Suresh, Ms Amrutha, Ms Resmi P Thomas, Sr. Pilty Peter (Faculty, Dept. of Botany), Dr. Sangeetha G Kaimal ((Faculty, Dept. of Zoology) Sr. Sheeba Andrews, Smt. Vidya KT, Smt. Jyothishmathi (Faculty, Dept. of Economics), Smt. Julie PJ (Faculty, Dept. of Political Science) and Smt. Anjana George (Faculty, Dept. of Chemistry) presented papers at the International History Conference held in the college in Novemebr 2014
  - Dr. S. Sreekumari, Dr. Jaseena Joseph (Faculty, Malayalam), Smt. Santhi Vijayan (Faculty, English) presented papers at the Third International History conference held at CMS College Kottayam 2015.

3.2.5 *How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?*

- Externally funded research projects support students' projects by providing extra facilities.
- Interdisciplinary approach and lab sharing between science departments (instruments like muffle furnace, electronic balance, electric oven, colorimeter, spectrophotometer etc. of the Chemistry lab are used by students from other departments)
- Facilities for cytological studies and instruments like Microtome in Botany Lab are used by students from the Dept. of Zoology.
- Computer labs with Net connectivity enable the students to prepare assignments, projects etc. and submit them online.

3.2.6 *Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.*

Yes.

- Rs. 25,000 received from CCDU, Water Resources Dept., Govt. of Kerala for

establishing Jalasree Hatrithasala Laboratory for water analysis.

- Rs. 59,50,000 received through Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program for upgrading science laboratories

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years

### Completed Research Projects

Nature of the Project	Duration Year	Title of the project	Name of fundin	Total Grant		Total grant received
				Sanctio	Receiv	
	Sept. 2013 - March 2014	Pollen Variability Studies and Interspecific Hybridization in <i>Vanilla</i> (PI: Dr. Minoo Divakaran,	UGC	1,70,000	1,63,500	1,63,500
	Sept. 2013 - March 2014	Water Quality Analysis and Effect of Water Pollution on Aquatic and Wetland Flora of Calicut District (PI: Dr. Deena	UGC	1,50,000	1,43,000	1,43,000
	Sept. 2013 - March 2014	Chemical Composition and Mosquito Larvicidal Activities of <i>Salvia</i> in South India (PI: Dr. Jija Mathew, Botany)	UGC	1,20,000	1,15,500	1,15,500
	Sept. 2013 - March 2014	Studies on Brachyphyline Oribatid Mites of Nilambur Forests Reserve (PI: Dr. Julia E. Zoology)	UGC	1,50,000	1,15,000	1,15,000
	Sept. 2013 - March 2014	Strong Field Gravitational Lensing of Black Holes Space Time Pierced by Cosmic Strings (PI: Dr.	UGC	80,000	30,000	30,000
	March 2014 - October 2015	Studies on the Feeding Biology and Elucidation of Leaf Damage Induced by Spider Mites on Vegetable Crops. (PI: Dr. Sangeetha C Keimol, Zoology)	UGC	1,50,000	1,20,000	1,20,000
	March 2014 - October 2015	Migrant Labour Influx to Kozhikode (PI: Dr. Priyadarsini P, History	UGC	1,35,000	90,000	90,000
	Jan 2014 - Nov 2015	Manual Scavenging in Kozhikode with Special Reference to the Night Soil Carriers of Kozhikode (PI: Dr. Priyadarsini P,	KCHR	50,000	20,000	20,000

March 2014 – October 2015	The role of NGOs in Income and Employment Generation- A Case Study of Calicut District. (PI:	UGC	1,50,000	1,35,000	1,35,000	
Major projects		Nil				
Interdisciplinary projects		Nil				
Industry sponsored		Nil				
Students research projects		Nil				
Any other (Specify)		Nil				

### ***Ongoing Research Projects***

Nature of the Project	Duration Year From	Title of the project	Name of the funding agency	Total Grant		Total grant received
				Sanction	Received	
Major projects	April 2016 –	Development of Advanced Multifunctional Capacitors for Electronic Packaging (PI: Dr.	KSCSTE	12,65,000		--
	March 2016 – March 2019	Broadband Studies of Active Galactic Nuclei by ASTROSAT (PI:	SERB (Science and Engineering	5,87,000		--
Minor Projects	April 2016- September 2017	The Trajectories of Dalit Uprisings in Post Independent India.	UGC	60,000	40,000	---

### **3.3 Research Facilities**

*3.3.1 What are the research facilities available to the students and research scholars within the campus?*

The major facilities developed are:

Library	Common Facilities	Laboratories and Instruments
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Subscription to e-journals and other journals	Multimedia Lab	<b>Material Science Research Lab</b>
INFLIBNET	Internet connectivity	Thin film vacuum coating Radiation Detector with accessories Spin coating unit UV Visible double beam spectrophotometer Digital constant temperature bath
Digital library	Computer labs	
Dept. libraries	Computers in all departments	<b>Astronomical Data Analysis Lab</b>
	Seminar and Conference halls	<b>Chemical Science Lab</b> Flame Photometer Water Analysis Kit Turbidity Meter
	Project Rooms.	<b>Plant Taxonomy Lab</b> Stereozoom microscope with Image analyzer Automatic Microtome
		<b>Plant Physiology &amp; Biochemistry Lab</b> Centrifuges, Deep freezer
		<b>Bioinformatics labs</b>
		<b>Molecular Biology Lab</b> Gel doc
		<b>Tissue Culture Lab</b> Autoclave Laminar air flow cabinet Culture racks
		<b>Water Analysis Labs</b>
		<b>Animal Science Lab</b> Berlesse extraction Unit Microcentrifuge with rotor head Haemocytometer Electrophoresis unit Digital PH unit Digital photocolormeter Autoclave Electrophoresis Gel-SDS PAGE
		<b>Entomology &amp; Animal Taxonomy Lab</b> Magnus Olympus MSZ Magnus trinocular stereozoom microscope msz

		Laboratory monocular microscope <b>Animal Physiology &amp; Biochemistry Lab</b> Digital PH unit Digital photocolormeter <b>General Informatics and Multimedia Lab</b> <b>Psychology Lab</b>
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3.3.2 *What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?*

- Applying for external sources of funding for research projects
- Increasing allocation for research component
- Establishing specialized laboratories according to thrust areas in each discipline
- Upgrading existing laboratories
- Introducing new laboratory facilities
- Upgrading computer facilities and installing new softwares
- Improving library facilities with the addition of e books and e journals.

3.3.3 *Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments / facilities created during the last four years.*

Other than the UGC funds for research facilities under Project Grant, the College has received financial support under 'Fund for Improvement of Science and Technology Infrastructure(FIST) programme. The facilities created through this are the following:

1. MINIM bin & Power supply Nucleonix
2. NaI detector 3" x 3"
3. 8K MCA card with accessories
4. Radiation Source
5. Lead shield for 3" x 3"
6. Radiation Counting System
7. Detector & Accessories for alpha, beta and gamma samples
8. UV Visible double beam spectrophotometer
9. Muffle furnace
10. Ultrasonic cleaner
11. Digital constant temperature bath
12. Ball mill
13. Spin coating unit
14. K-Br press & accessories
15. HeNe laser



16. Automatic Microtome
17. Pipetting kit
18. Stereozoom microscope with Image analyzer
19. Liquid nitrogen container
20. Electrophoresis system with power pack & electrophoresis gel unit
21. Laboratory monocular microscope (40 Nos)
22. Autoclave(90L)
23. pH meter (10 Nos.)
24. Water analysis kit +pH electrode + Conductivity electrode (2Nos.)
25. Flame photometer
26. Turbidity meter

3.3.4 *What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?*

- Research Centre in the Dept. of Physics is utilized by Dr. Raje Bhageerathi, Research Scientist under Women Scientist Programme of DST (Mentor –Dr. Latha P(Panakkada)
- The Zoology Laboratory is used by PG students of other colleges for their project work
- The museums of the Dept. of Zoology and History are used by students from nearby colleges and schools for study purpose
- Research scholars from Malabar Botanical Garden and Institute of Plant Sciences use the Automatic Microtome and Image Analyzer of the Botany laboratory.

3.3.5 *Provide details on the library/ information resource center or any other facilities available specifically for the researchers?*

The library subscribes to a good number of Academic Journals. In addition, research work is facilitated with the Infilbnet subscription. Research scholars working under the recognised guides of the institution utilise the resources in the college library for their literature review.

3.3.6 *What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.*

- Jalasree Harithasala Lab established in the dept. of Botany with financial support from CCDU, Water Resources Department, Govt. of Kerala, which provides facility for water quality analyses for the public, free of cost.
- Laboratories associated with the departments of Physics, Chemistry, Botany & Zoology have developed more facilities through the FIST programme

### **3.4 Research Publications and Awards**

3.4.1 *Highlight the major research achievements of the staff and students in terms of*

- *Patents obtained and filed (process and product)*

Nil

- *Original research contributing to product improvement*

- The studies on antibacterial and antifungal plant products and nano particles can be fine-tuned for developing them as potential microbicides.
- *Research studies or surveys benefiting the community or improving the services*
  - Studies on mosquito larvicidal plants
  - Studies on water quality and pollution levels in water bodies of Kozhikode
  - Studies on *in vitro* multiplication and conservation of endangered plants
  - Studies on wetlands and mangroves of Vengalam, Kozhikode
  - Studies on spider mites and leaf damage on vegetable crops
  - Preparation and Characterization of Thin Film Solar Cells
  - Electrical and Magnetic Properties of Soils in Different parts of Kerala
  - Migrant Labour Influx to Kozhikode
  - The role of NGOs in income and employment generation
  - Manual Scavenging in Kozhikode with Special Reference to Night Soil Carriers
  - Studies on Dalit Movements
- *Research inputs contributing to new initiatives and social development*

The Project work on LED Bulbs for Energy Conservation carried out by Jinu Peter and Anusree, B.Sc. students of the 2013 batch, won the State Level Second Prize in the Spark Competition for Innovations conducted by the Student Empowerment for Environmental Development initiative of Mathrubhumi Publications.

3.4.2 *Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?*

Yes, an annual Research Journal *Diotima's* with ISSN2319 4189 is published by the Dept. of English

Composition of the Editorial Board : Advisory and Peer Review Board comprising eminent scholars, and the faculty members of the Dept. of English

Publication Policies : Publish original, previously unpublished articles on new readings of literary texts.

Whether this is listed in any International Database : No

3.4.3 *Give details of publications by the faculty and students:*

Publication per faculty : 3.75 ( 2011-12 to 2015-16)

Number of papers published by faculty and students in Peer reviewed journals (national / international) : 162

**Research Articles in Journals  
Science Section**

**2015-16**

1. **Liji PG** and Jayan C (2016) Influence of Pornography and Cybersex in Mental Health of Female Youth. *International Journal of Multidisciplinary Educational Research*. 5, 3 (2): 9-21.

2. **Liji PG** and Jayan C (2016) Child Sexual Victimization and Mental Health- An Exploration. *Academia – An International Multidisciplinary Journal* 6(5).
3. **Minoo Divakaran** (2015), Micropropagation and *in vitro* Conservation of Two Medicinally Important Species of Long Pepper (*Piper longum* and *P. chaba* Hunt) *Innovative Journal of Horticulture*, 4(1) :20-25
4. **Minoo Divakaran** (2015) Induction and Field Performance of In Vitro Microrhizomes of Turmeric (*Curcuma longa* L.) for Production of Disease Free Planting Material. *International Journal of Innovative Horticulture* 3(2): 142-150.
5. **Deena Meria Jose, Suchithra E,** Divya M, Drishya K, Kavya C, Shamna P and Sariga P (2015) Morphometric Analysis of a Few Species of *Caesalpinia*. *Journal of Advances in Biological Sciences* 2(1-2): 22-25.
6. Raju Francis, **Deepa K. Baby,** Y. Gnanou(2015). Synthesis and Self-Assembly of Chitosan-g-Polystyrene Copolymer: A New Route for the Preparation of Heavy Metal Nanoparticles, *Journal of Colloids and Interface Science*, 438,110–115.
7. Raju Francis and **Deepa K. Baby (2016)** A Reactive Polystyrene-block-Polyisoprene Star Copolymer as a Toughening Agent in an Epoxy Thermoset., *Colloids and Polymer Science* (Springer) (accepted. DOI 10.1007/s00396-015-3810-6)

## 2014-2015

8. **Minoo Divakaran,** Nirmal Babu K, Ravindran PN and Peter KV (2015) Biotechnology for Micropropagation and Enhancing Variations in *Vanilla*. *Asian Journal of Plant Science and Research*, 2015, 5(2):52-62
9. **Minoo Divakaran** (2014) Somatic Embryogenesis and Transgenic Development in Black Pepper for Delayed Infection Decreased Spread of Foot and Rot Caused by *Phytophthora Capsici*. *Journal of Plantation Crops* 42(1): 20-28
10. Thoppil J E, Tajo A, Minija J, **Deena Meria Jose,** Sreeranjini K, Leeja L, Sivadasan M & Alfarhan A H (2014) Antimicrobial Activity of the Essential Oils of Three Species of Pogostemon. *Journal of Environmental Biology* 35(5): 795-798.
11. **Deena Meria Jose & Thoppil J E** (2014) Micropropagation and Phytochemical Analysis of *Mentha Rotundifolia* (L.) Huds. *Indian Journal of Applied Research* 4(9): 41-44.
12. Deena Meria Jose (2014) Water Quality of Wetland Ecosystems - A Sample Study from Kozhikode District, Kerala. *Indian Journal of Applied Research* 4(10): 259-262.
13. **Sangeetha G. Kaimal & N. Ramani** (2014) Influence of Temperature and Relative Humidity on Oviposition and Fecundity of *Oligonychus Biharensis* (Hirst) (Acari: Tetranychidae), a Pest on Cassava. *International Journal of Scientific Research*, 3(9):297, 298.
14. **Sangeetha G. Kaimal** (2015) The Coconut Pest *Aceria Guerornis* Keifer (Acari: Eriophyidae) a Plague in Kerala. *International Journal of Science and Research* 4(3) 693,696.
15. **Sangeetha G Kaimal** (2016) Breeding Biology of *Oligonychus Biharensis* (Hirst) (Acari: Tetranychidae) – A pest on Cow Pea, *International Journal of Scientific Research*, 5(3), 19 – 21
16. **Manjusha K. K,** K Sankaranarayanan, Seena P. (2015) Data Mining in Dermatological Diagnosis: A Method for Severity Prediction. *International Journal of Computer Applications*, Vol.117,11, 2015
17. **Manjusha K. K,** K Sankaranarayanan, Seena P. (2014) Prediction of Different Dermatological Conditions using Naive Bayesian Classification. *International Journal of Advanced Research in Computer Science and Software Engineering*, Vol 4, issue 1 ISSN: 2277 128, 2014.
18. **Manjusha K. K,** K Sankaranarayanan, Seena P. (2014) Medical Data Mining: An Expert Diagnostic Method For Dermatological Diseases. *Karapagam Journal of Computer Science*, Vol:08 Issue:05 July-Aug Edition, 2014.

19. **Jisha K** and **Savitha** (2014) Session Key Authentication Mechanism for Wireless Sensor Network Users” in *International Journal of Scientific & Research Publication* ISSN-2250-3153 Vol-4 (6 ) June 2014.
20. **Jisha K** (2014) Conflict Free Query Scheduling in Multihop Sensor Networks. *International Journal of Advanced Engineering and Global Technology*[IJAEGT]ISSN-2309-4893 vol 2 Issue 6 June 2014
21. **Savitha S V**(2014) Comprehensive study on Vehicular Ad hoc Networks” in Conference Proceedings of *IJERT Journal*
22. **Sobha A, Sumangala. R** and **Mini P Balakrishnan** (2014) Preparation and Characterization of Fluorine Doped SnO<sub>2</sub> Thin Film by Vacuum Coating Technique- *International Journal of Developmental Research*, Vol.4 (2): 306-309.
23. Geetha Krishnan P.M, **Sobha A., Sumangala R.** and **Mini P. Balakrishnan** (2014) Synthesis and Charecterization of Ag/PVP Nanocomposites by Reduction Methods. *Open Access Library Journal* 1,1-10.
24. Jithesh V., Misra R., Shalima P., **Jeena K.**, Ravikumar C.D, Babu B.R.S., (2014) Long Term Optical Variability of Bright X-Ray Point Sources in Elliptical Galaxies. *RAA14*, 10, 1251-1263.
25. **Latha, P.** Magudapathy P, Abdullah K K, Nair K G M, Babu B R S, Varier K M (2015) Anomalous Scattering Factor Using Proton Induced X-Ray Emission Technique. *Radiation Physics and Chemistry* 107 103-108.
26. **Shija K, Sini R** (2014) Co Precipitation Synthesis, Optical And Magnetic Properties of Mn<sub>x</sub>Fe<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> Ferrofluids. *International Journal of Chem. Tech. Research*, ISSN 097404290, 7(3): 1392- 1398.
27. Dhanya K.P., Blessy Babukutty, **Shija K. Sini R**, Swapna S. Nair (2015) Co-Precipitation Synthesis, Optical and Magnetic Properties of Mn<sub>x</sub>Fe<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> Ferrofluids. *International Journal of Chem Tech Research* Vol.7, No.3, pp 1392-1398,
28. **Julie E.**, Ramani N. (2015) Feeding Habits of Panphytophagous Brachypyline Oribatid Mites (Acari: Oribatei) of Kerala. *Journal of Soil Biology & Ecology* 35(1&2) 19-27.
29. Raju Francis and **Deepa K. Baby**, (2014). Toughening of Epoxy Thermoset with Polystyrene-block-Polyglycolic acid StarBlock Copolymer: A Nanostructure - Mechanical Property Correlation. *Industrial and Engineering Chemistry Research*, 53, 17945–17951

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1. **Minoo Divakaran** (2013) *In vitro* Technology for Conservation of *Vanilla* Genetic Resources, Fifth International Orchid Conservation Congress (IOCC5), Saint Denis, Reunion Island, 2-6 Dec. 2013
2. **Minoo Divakaran** (2013) Status of Transgenics in Indian Spices, *Journal of Tropical Agriculture* 51 (1-2) : 1-14,
3. **Liji PG** and Manikandan K (2013) Sex Role Orientation and Emotional Labour among Nurses. *Academicia – An International Multidisciplinary Journal* 3(3): 65-76.
4. **Sangeetha G. Kaimal** (2013) Life Table of *Oligonychus Biharensis* (hurst) (Acari Tetranychidae), a Pest on *Vigna Unguiculata* (l) Walp. *Global Journal of Bio Sciences and Biotechnology*, 2(4): 305-308.
5. Shalima P., Jithesh V., **Jeena K.**, Misra R., Ravindranath S., Dewangan G.C, Ravikumar C.D., Babu B.R.S. (2013) Mid Infra-red and X-ray Luminosity Correlations of X-ray Point Sources in *NGC1399 MNRAS* ,434,639-651
6. **Sangeetha G. Kaimal**, Athira A., Aswathi S.B., Fathima Safna, Jishna M.P. and A. Akshaya. (2013) Breeding Strategies of *Eutetranychus Orientalis* (klien) (Acari Tetranychidae) on Neem. *International Journal on Science and Nature*: 4(3): 468-472.

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1. **Minoo Divakaran** (2013) Genetic Diversity And Phylogenic Relationships among Small Cardamom (*Elettaria Cardamomum* Maton.) Cultivars and Related Genera using DNA Markers *International Journal of Innovative Horticulture*. 1(1):47-56
2. **Jija Mathew** & J E Thoppil (2012) Genotoxicity of Methyl Parathion and Antimutagenic Activity of *Salvia officinalis* L. (Sage) Extracts in Swiss Albino Mice, *Asian Journal of Pharmaceutical and Clinical Research*.
3. **Latha P.**, Magudapathy P, Abdullah, K K, Nair K G M, Babu B R S, Varier K M (2012) Effective Atomic Numbers for Gamma Ray Interaction at 59.54KeV in Heterogeneous Layers of Materials using <sup>241</sup>Am gamma rays, *Radiation Physics and Chemistry* 81 1817-1822,
4. **Latha P.**, Magudapathy P, Abdullah K K, Nair K G M, Babu B R S, Varier K M (2012) Differential Scattering Cross Sections for Elements with <sup>137</sup>Cs using 59.54 keV Gamma Rays. *Physica Scripta*, 85, 35303(1-5)
5. Menon. Ragi, K. S. Umadevi, Paul Nees, Jovia Jose, **M.V. Keerthy**, and V.P. Joseph., (2012) Flexible Split-Ring Resonator Metamaterial Structure at Microwave Frequencies., *Microwave and Optical Technology Letters* Vol. 54, no.6

## 2011-2012

6. **Anjana George** (2012) Fluorescent Coronene Monoimide Gels via H Bonding Induced Frustrated Dipolar Assembly. *Chemical Communications* 48: 1467-1469.
7. Jithesh V., **Jeena K.**, Misra R., Ravindranath S., Dewangan G.C, Ravikumar C.D., Babu B.R.S. (2011) Black Hole Mass Limits For Optically Dark X-Ray Bright Sources in Elliptical Galaxies *Astrophysical Journal (Apj)*, 729,67,
8. **Jija Mathew** & J E Thoppil (2011) Chemical Composition and Mosquito Larvicidal Activities of *Salvia* Essential Oils. *Pharmaceutical Biology*; 49, 5: 456-463
9. Jija Mathew & J E Thoppil (2011) Investigation of the Antimutagenic Activity of Three *Salvia* Extracts. *International Journal of Pharmacy and Pharmaceutical Sciences*
10. **Nisha Pet al.** (2011) *Selaginella Lakkidiana* sp. Nov. (Selaginellaceae) from India. *Nordic Journal of Botany*. 28: 1-3.
11. **Julie E.**, N. Ramani, M. Anjana. (2011) Studies on Feeding Habits of *Protoribates Punctata*, Grobler, 1991 (Acari: Oribatei). *Advances in Environment Research: An Interdisciplinary Approach*. 28-31.
12. **Jija Mathew** & J E Thoppil (2012) Antimutagenic Effect of Methanol Extract of *Salvia Coccinea* Buc' hoz ex Etl. 'White' in Swiss albino Mice. *International Journal of Pharmaceutical Research and Development* 4 (1): 13.
13. **Jija Mathew** & J E Thoppil (2012) Chemical Composition and Mosquito Larvicidal Activities of *Salvia Coccinea* Essential Oils. *International Journal of Pharmaceutical Research and Development*

## Arts Section

### 2015-16

14. **Surya K.** (2016) Gender Politics and Cultural Representation: The Dynamics of Power in Women's Magazines. *Singularities*. Vol.3. No. 1. January 2016.
15. **Shanthi Vijayan (2016) Postfeminist Mythopoeia: Oppositional Consciousness at Work in Sarah Joseph's Oorukaval.** Vol 3. No:1. Jan-Mar 2016. *International Journal of English*

16. **Shiji P** (2015) Rural Women Empowerment through Self Help Groups in Calicut District. *Lux Montis* (ISSN 2321-8053) 4: 188-196.
17. **Shiji P** (2015) Awareness among Investors regarding Investments In Mutual Funds Mirror (ISSN 2249-8117) *International Research Journal of Commerce Management and Social Sciences* 5(2): 80-86
18. **Shiji P** (2015) Job Stress Among Nurses Working in Private Hospitals with Special Reference to Calicut District. *Research Scholar* (ISSN 2249-6696)5: 157-160
19. **Shiji P** (2015) Actuarial Profession an Overview -New Numbers and Letters (ISSN 23208317) *Interdisciplinary Journal* 6(1) 164-170.
20. **Surya K.** (2015) The Ideal of Femininity: Woman in Indian Television Advertisements. *Research Scholar*. V.ol.5. No.3. September 2015.

#### **2014-15**

21. **Laina P.** (2014), Gandhian Prasthanathile Stree Pankaalitham', in *Sanghaditha*, January Vol. No. 7(1). ISSN-2319-9741.
22. **Smitha S** (2014) Climate as a Strength Factor Journal of Science, Technology & Management, 07 (03) MACFAST Thiruvalla, Kerala
23. **Smitha S** (2014) Village Tourism in Kerala International Journal of Management and Commerce Innovations,ISSN:2348-7585(Online) Volume 02 Issue 02 *Research Publish Journals*, Lucknow.
24. **Smitha S** (2014) Disaster Management in Tourism with Special Focus on Natural Disasters, *Vijnana Prabha Multi-Disciplinary Journal*, ISSN:2231-3214 Vol.3 (2) St. Philomena's College, Mysore
25. **Sheeba Andrews** (2014) Dynamics of Cropping Pattern Shift and Sources in Kerala and Determinants. *Journal of Agriculture Situation in Kerala*.
26. **Shiji P** (2014) FDI – An Outward Perspective with Reference to India as an Emerging Market. *International Journal of Contemporary Research in India*, Vol.4.
27. **Shiji P** (2014) Indian Education- Still a Sick Child. *International Journal of Contemporary Research in India*, Vol.4.
28. **Ninikala K** (2014) Kerala Dinesh Beedi Workers Central Cooperative Society Ltd.- Financial Analysis of Diversified Units. *International Research Journal of Management Society and Humanities*. 5(8)

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29. **Jaseena Joseph** (2013) Sargachinthakalum Streeswathwabodhavum Athikala Nadakangalil, *MalabarManual*ISSN 2320-947X.
30. **Aparna Nandakumar** (2013) Mapping Desire and Violence on the University Campus, in *Anveshi Broadsheet on Contemporary Politics*, Vol. 2, No. 2, December 2013, ISSN: 2278-3423
31. **Aparna Nandakumar** (2013) The Romance of the Campus: Revisiting the Genre of Campus Films in Malayalam, *Diotima's: A Journal of New Readings*, December 2013, ISSN: 2319-4189.
32. **Preethy Mary George** (2013) Beyond Cultural Identity: Reflections on Multiculturalism in One Amazing Thing. *Discourse*, Vol.1No.2 September2013/ISSN2321-0214
33. **Preethy Mary George** (2013) Voices and Silences in One Amazing Thing. LUX MONTIS( Girideepam Institute of Advanced Learning), Vol.1No.1 July2013/ISSN2321-8053
34. **Preethy Mary George** (2013) Continuous and Comprehensive Evaluation in English - Success or Failure?, Hindustan University Chennai-The Modern Journal of Applied Linguistics, Special Issue January 2013/ISSN 0974-8741

35. **Jaseena Joseph** (2013) ‘Sargachinthakalum Sthreeswathwavum Adyakala Nadakangalil’ *Research Journal of Dept of Malayalam*. M.C.C Calicut
36. **Jaseena Joseph** (2013) Bible Translation: for Bible Translation of MST Fathers Pariyaram.
37. **Susmitha Ramakrishnan** (2013) Feminist Analysis of Theyyam Myths. *Journal of Academic Staff College*, University of Calicut.
38. **Sreekumari S.** (2013) Sthreepaksha Nadakam: Oro Kalatheyum Aspadamaki Oru Padanam. *Malabar Manual* ISSN 2320 947 Vol. 1(2).

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39. **Jaseena Joseph** (2012) ‘Athiru Kadanna Sthree Swathwabdam Sthree Nadakangalil – Aranginte Sadhyathakal Sthree Nadakathil’ *Keli Journal of Kerala Sangeetha Academy*
40. **Sreekumari S.** (2012) Vaikarikathayilninnu Aaswadyathayileku Oru Koodumattom - *Keli Journal of Kerala Sangeetha Academy*. pp88-90. ISSN 7681164-
41. **Preethy Mary George** (2012) Victimization of Women: A Study on Margaret Atwood’s Novel Surfacing, *Research Scholar*, Vol. II. No. IV. December 2012/ISSN 2249-6696
42. **Preethy Mary George** (2012) The Play Hayavadana: An Innovative Experiment and a New Direction to Modern Indian Theatre, *Research Journal, Misbah*, Book 7. Vol. 7. January-2012/ISSN 0976-2523
43. **Preethy Mary George** (2012) Feminist View of R.K. Narayan’s The Guide. *Research Lines*, Vol. I V No.1. June 2012/ISSN0975-8941
44. **Preethy Mary George** (2012) A Post-colonial Reading of the Play Hayavadana. *Research Scholar*, Vol. II. No. II. June 2012/ISSN 2249-6696
45. **Preethy Mary George** (2012) Postcolonial Concepts in *The English Teacher*. *Research Scholar*, Vol. II. No. I-B March 2012/ISSN-2249-6696
46. **Preethy Mary George** (2012) Deconstruction of the Poem ‘Mirror’ *Baselius Researcher*, Vol. XIII. No. 2. July-December 2012/ISSN 0975-8658
47. **Surya K** (2012) Jumpa Lahiri, The Chronicle of Maladies (Book Review) *Annual Magazine of Providence College of Teacher Education for Women* 2012.
48. **Radhika MD** (2013) ‘Yakshi’ (Poem) *Madhyamam* March 18, 2013
49. **Radhika MD** (2013) ‘Abhayam’ (Poem) *Bhashaposhini* January 2013
50. **Radhika MD** (2013) ‘Sinimayum Penkuttiyum’ (Poem) *Madhyamam* March 18, 2013

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51. **Radhika MD** (2012) ‘Oridam’ (Poem) *Annual Magazine of Providence College of Teacher Education for Women* 2012.
52. **Radhika MD** (2012) ‘Difference’ (Poem) *Indian Ink*, Issue 4, 2012.
53. **Lalitha Menon** (2012). ‘Night’ (Short story) *Inkpot: Annual Magazine of Providence College of Teacher Education for Women* 2012.
54. **Sreekumari S** (2011) Nadakam Oru Parishkarana Prasthanam *Keli* ISSN 768164.

### Seminar/ Conference Proceedings

#### Science Section

#### 2015-16

1. **Minoo Divakaran** (2015) *In Silico* Mining, Characterization and Validation of Micro Rnas from Medicinal and Pesticidal Angiosperm *Azadirachta indica* (Abstract – *National Seminar on Patents Plant Breeding Biotechnology and Conservation* organized by MBGIPS Kozhikode 3-5<sup>th</sup> Dec 2015, p77).

2. **Minoo Divakaran** (2015) Investigations on Phenology of *Celastrus paniculatus* Willd (Abstract – *National Seminar on Patents Plant Breeding Biotechnology and Conservation* organized by MBGIPS Kozhikode 3-5<sup>th</sup> Dec 2015) p. 102.
3. **Deena Meria Jose** (2015) Macrofungal Diversity of Kozhikode. (Abstract –*National Seminar on 'Role of Lower Plants in the Forest Ecosystem: Diversity, Conservation and Utilization Potential'*. Organized by Govt. College Chitter, Palakkad. 9-10<sup>th</sup> Dec 2015
4. **Manjusha K. K.**(2015) “ Search Engine Optimization ” in Proceedings of UGC sponsored *National seminar on “Refining marketing in digital era of globalization”* conducted by Department of Commerce, Providence Women’s College, Calicut 3-09-2015 to 4-9-2015
5. **Manjusha K. K** (2015), “Natural Language Processing” in on UGC sponsored *National Workshop on Research Trends in IT* “conducted by Department of Computer Science , Mary Matha College, Mananthavadi ,Wayanad 17-10-2015 to 19-10-2015.
6. **Jisha K** (2015) Application of VANETs Present and Future” in UGC sponsored *National Seminar* organized by EMEA College of Arts and Science, on 24-02- 2015&25-02-2015
7. **Jisha K** (2015) Comprehensive Study on Vehicular Ad hoc Networks. UGC sponsored *National Seminar* by organized by St. Mary’s College of Arts and Science on 08-10- 2015 & 09-10-2015
8. **Jisha K** (2015) Comprehensive study on Vehicular Adhoc Networks” in Conference proceedings of IJERT Journal.
9. **Jisha K** (2015) E-Commerce implementing Security Issues. Proceedings of UGC sponsored *National Seminar on Refining Marketing in Digital Era of Globalization* Conducted by Department of Commerce, Providence Women’s College, Calicut 3-09-2015 to 4-9-2015
10. **Jisha K** (2015)“Scheduling Aggregate Queries in Multihop Sensor Networks” at UGC National Seminar. Organized by Sullumassalam Science College, ISSN [978-53-5137-472-5]
11. **Savitha S V** (2015) Comprehensive study on Vehicular Ad hoc Networks “ in UGC National Seminar organized by St. Mary’s College of Arts and Science, 08-10- 2015 & 09-10-2015
12. **Shika M V** (2015) Search Engine Optimization UGC *National Seminar on “Refining marketing in digital era of globalization* “conducted by department of commerce, Providence Women’s College 3-09-2015 and 4-9-2015
13. **Shika M V** (2015) Natural Language Processing. UGC sponsored *National Workshop on “Research trends in IT”* conducted by Department of Computer Science, Mary Matha College, Mananthavadi,Wayanad dated:17-10-2015 to 19-10-2015.
14. **Sangeetha G Kaimal** (2015) Vengalam Mangroves and Odonates. UGC sponsored *National Seminar on ‘Ecofriendly Aquaculture’*, organized by SH College, Chalakkudy, Trissur (15th - 16th Sept).
15. **Sangeetha G Kaimal** (2016) Post Embryonic Development of *Oligonychus biharensis* (Hirst) (*Acari: Tetranychidae*) Infesting Cow Pea. UGC sponsored *National Seminar on ‘Mosquito and Vector borne Diseases’*, organized by Sree Krishna College, Guruvayur, Trissur, Kerala<sup>4</sup>th Feb).

## 2014-15

16. **Sangeetha G Kaimal** (2014) Elucidation of Leaf Damage Induced by Carmine Spider Mite *Tetranychus cinnabarinus* (Boisd.) (*Acari: Tetranychidae*) infesting *Justicia adhatoda* L. 24th Swadeshi Science Congress, held at Thunchath Ezhuthachan Malayalam University, Malappuram, Kerala. (6th – 8th Nov).
17. **Sini R** (2014) Trajectory of Particles near Reissner Norstorm External Black Holes. *National Seminar on Recent Trends in Physics* organized by Govt. Arts & Science College, Kozhikode.



18. **Shobha A, Mini P Balakrishnan, Sumangala R, Karthika** (2014) Optical and Electrical Properties of Chromium Doped Zinc Telluride Thin Films Prepared by Thermal Evaporation Method. *UGC National Seminar Spectrum 2013-14 on Isotope and Nuclear Techniques*.
19. **Sobha A** (2014) Preparation and Characterization of Copper Doped ZnTe Thin Films. *UGC National Seminar Spectrum 2013-14 on Isotope and Nuclear Techniques*.
20. **Jisha K** (2014) Scheduling Aggregate Queries in Multishop Sensor Networks. *Advances in Computing Communication and Application*. Organized by SS College Arcode.
21. **Mini P Balakrishnan** (2014) Characterization of Physical Properties of Soils Collected from Different Parts of Kerala *Proceedings of NSFP 2014*.
22. **Sobha A** (2014) Effect of Zn Diffusion and Doping On Electrical and Optical Properties of CdTe Thin Films, Effect On Structural Electronic Transport And Optical Properties Of Metal Incorporated Zinc Telluride Thin Films, *Proceedings of NSFP 2014*.
23. **Sumangala R** (2014) Electrical properties of carbon black filled natural rubber composites. *Proceedings of NSFP 2014*.
24. **Sini R** (2014) Optical And Magnetic Properties Of Cobalt Substituted Magnetite Fluids. *Proceedings of NSFP 2014*.
25. **Jija Mathew** (2015) Antimutagenic Activities of Salvia Leucantha, *National Seminar on 'Biodiversity its Concepts and Concerns'* organized by Providence Women's College Kozhikode, sponsored by UGC (January 15-16,)
26. **Reshnu Suresh E** (2015) A Scientific Approach To The Pharmaceutical Properties of Avicennia officinalis L. and Clerodendron inermis Gaertn of Kumbalangi village of Ernakulam District. *National Seminar on 'Biodiversity its Concepts and Concerns'*, organized by Providence Women's College Kozhikode, sponsored by UGC (January 15-16)

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27. **Febina K, Fasma K, Anu Antony, Aswathy ET, Anusree EP & Deena MJ** (2015) Macrofungal Diversity of Florican Hill. *National Seminar on Biodiversity its Concepts and Concerns* organized by Providence Women's College Kozhikode, sponsored by UGC (January 15-16)
28. **Neema scaria, Reshnu Suresh E** (2015) Qualitative Phytochemical Analysis of *Acanthus Illicifolius* *National Seminar on 'Biodiversity its Concepts and Concerns'* organized by Providence Women's College Kozhikode, sponsored by UGC (January 15-16,)

### **2013-14**

29. **Arathymol A. & Deena Meria Jose**, (2013) Antibacterial herbs from Apiaceae. *Proceedings of the National Seminar- Forest Biodiversity Conservation* organized by Providence Women's College on 10th and 11th October 2013.
30. **Navya Jayakrishnan, Bhagyasree Raveendran & Deena Meria Jose**, (2013) Antifungal Properties of a few Genera from Lamiaceae *Proceedings of the National Seminar- Forest Biodiversity Conservation* organized by Providence Women's College on 10th and 11th October 2013.
31. **Vinjusha N, Shikha M, Sruthi V P & Deena Meria Jose**, (2013) Essential Oil Studies on Two Species of *Ocimum*. *Proceedings of the National Seminar- Forest Biodiversity conservation*. Organized by Providence Women's College on 10th and 11th October 2013.
32. **Sneha VV & Deena Meria Jose**, (2013) Anatomical And Phytochemical Studies on Two Species of *Costus*. *Proceedings of the National Seminar- Forest Biodiversity Conservation* organized by Providence Women's College on 10th and 11th October 2013.
33. **Minoo Divakaran & Jeeja Jayakrishnan**, (2013) *In vitro* Multiplication of Endangered and Endemic Indian *Vanilla* Species, *Proceedings of the National Seminar- Forest*

- Biodiversity Conservation* organized by Providence Women's College on 10th and 11th October 2013.
34. **Shamna AP & Minoo Divakaran**, (2013) Digitized Documentation of some Underutilized Plant Species and Preparation of an e-Database of Indigenous Plants. Proceedings of the *National Seminar- Forest Biodiversity Conservation* organized by Providence Women's College on 10th and 11th October 2013.
  35. **Deena Meria Jose**, & Thoppil JE (2013) Conservation of *Mentha Gentilis* L. (Ginger Mint) through Micropropagation. Proceedings of the *National Seminar- Forest Biodiversity Conservation* organized by Providence Women's College on 10th and 11th October 2013.
  36. **Ruvyda E. V, Sarommabi CP, Shajee F, Sulfath MK, Litna Jose K & Jija Mathew**, (2013) Mosquito larvicidal activities of Sugandhi Triphala *Proceedings of the National Seminar- Forest Biodiversity Conservation*, organized by Providence Women's College on 10th and 11th October 2013.
  37. **Krishnapriya K, Arshida PK, Jincy George, Delna VP & Minoo Divakaran** (2013) Biosynthesis of Silver Nanoparticles using Leaf Extracts of Piper species Proceedings of the *National Seminar- Forest Biodiversity Conservation* organized by Providence Women's College on 10th and 11th October 2013.
  38. Anju T K, Aparna Prasad & **Minoo Divakaran** (2013) Studies on Micropropagation of *Aloe Vera* Linn Proceedings of the *National Seminar- Forest Biodiversity Conservation*, organized by Providence Women's College on 10th and 11th October 2013.
  39. **Arya Krishnan & Deena Meria Jose**, (2013) Micromorphology of a Few Members of Asteraceae. Proceedings of the *National Seminar- Forest Biodiversity Conservation*, organized by Providence Women's College on 10th and 11th October 2013.
  40. **Reshnu Suresh E & Romilly Margaret Mendez** (2013) A Preliminary Investigation on a True Mangrove – *Rhizophora Mucronata*, Lamk. and its Associate *Cayratia trifolia* L. of Kumbalangi Village in Ernakulum District, organized by Providence Women's College on 10th and 11th October 2013.
  41. **Kavya V S & Deena Meria Jose**, (2013) Anthelmintic and Mosquito Larvicidal activities of some introduced hedge plants, organized by Providence Women's College on 10th and 11th October 2013.
  42. **Julie E., Anusree.E.K and Afreen**, (2013) A preliminary study on the oribatid (*Acari: Oribatei*) Fauna of Nelliampathi Forest Reserve-Western Ghats, Kerala. National seminar on Forest Biodiversity Conservation, organized by Providence Women's College on 10th and 11th October 2013
  43. **Deena Meria Jose** (2013) Leucas Essential Oils as Bio-rational Microbicides Proceedings -UGC sponsored Seminar '*Biopesticides for Sustainable Agriculture*' organized by Malabar Christian College, Calicut
  44. **Jija Mathew** (2013) Mosquito Larvicidal Activities of *Syzygium Aromaticum* (Myrtaceae). UGC sponsored *Seminar on Biopesticides for Sustainable Agriculture*, Malabar Christian College, Calicut
  45. **Julie E & Ramani N.**, (2013) Studies on the Postembryonic Development of *Ramusella Philippinensis* on Decayed Pneumatophores. Swadeshi Science Congress at M.G. University, Kottayam on 6-8, November 2013.
  46. **Julie E. & Ramani N.**, (2013) Impact of Global Warming on the Faunal Diversity of Oribatid Mites (*Acari: Oribatei*) of Mangrove Ecosystem of Kozhikode, Kerala. 3rd International Congress on Global Warming on Biodiversity of Insects: Management and Conservation Strategies held on 26th to 28th, November, 2013.
  47. **Julie E. & Ramani N.**, (2013). Feeding Habits of Panphytophagous Brachypylinae Oribatid Mites (*Acari: Oribatei*) of Kerala. 10th *National Symposium on Soil Biology and Ecology* held on 19th -21st December, 2013 at University of Agriculture Sciences, GKVK, Bangalore.

## 2012-13

48. **Minoo Divakaran** *et al*, (2012) Advances in Food and Agricultural Biotechnology - with special reference to Spices, *International Conference on Advances in Biological Sciences (ICABS)*, (Abst. p.15), Inter-University Centre for Microbiology and Biotechnology, Kannur, Kerala
49. **Minoo Divakaran & Jeeja Jayakrishnan** (2012) Investigations on Two Ecologically Important *Avicennia* Species Abst., 7-8th Sept, *International Seminar on Climate Change Impact*, SNC Trivandrum
50. **Sini R** (2012) Gravitation Lensing by RN Extreme Black Holes. *UGC National Conference on Emerging Trends in Theoretical and Experimental Physics*, organized by Farook College Kozhikode.
51. **Latha P** (2012) Attenuation Studies near K-edge using PIXE 19<sup>th</sup> *National Symposium on Radiation Physics*, organized by Indian Society for radiation physics held at Mamaliapuram, Chennai.
52. **Latha P** (2012) Anomalous scattering factors to the forward Rayleigh Scattering Amplitudes of Elements, 19<sup>th</sup> *National Symposium on Radiation Physics*, organized by Indian Society for Radiation Physics held at Mamallapuram, Chennai
53. **Jeena K** (2013) The Multi-Wavelength Studios of Ultra-luminous X ray Sources in *NGC 1427*; organized by Astronomical Society of India IST Trivandrum.
54. **Jinshira MP, Nisha PO, Manju K, Riswana T, Chahana VC & Deena Meria Jose**, (2013) Floral Biology of a few *Bauhinia* Species from Western Ghats. *Proceedings- UGC Sponsored Seminar - Western Ghats -Biogeography, Biodiversity & Conservation*, organized by NSS College, Manjeri.

## 2011-12

55. **Keerthy M.V**, Jovia Jose, Ragi P. Menon, and V.P. Joseph., (2011) Field Distribution Near an Array Antenna in the Presence of a Negative Index Prism, *National Seminar on Materials for Electromagnetic Applications-* Christ College, Irinjalakuda. 29-30, November 2011
56. Jovia Jose, **Keerthy M.V**, Ragi P. Menon, and V.P. Joseph., (2011) Analysis of Electromagnetic Wave Distribution Near a Negative Permittivity Slab Using FDTD, *National seminar on Materials for Electromagnetic Applications-* Christ College, Irinjalakuda. 29-30, November 2011
57. Cryspi John, Shikha Simon, Jovia Jose, **Keerthy M.V**, and V.P. Joseph., (2011) FDTD Analysis of the Radiation Characteristics of Dual and Tri Corner Reflector Antennas, *National seminar on Materials for Electromagnetic applications-* Christ College, Irinjalakuda. 29-30, November 2011
58. Shikha Simon, Cryspi John, Jovia Jose, **Keerthy M.V**, and V.P. Joseph (2011) FDTD Analysis of Certain reflector Antennas with an Isotropic Array Source as Feed Element, *National seminar on Materials for Electromagnetic applications-* Christ College, Irinjalakuda. 29-30, November 2011
59. **Minoo Divakaran** (2011) Cryopreservation of Pollen and Interspecific Hybridization in Important Orchid Species *V. planifolia* and *V. aphylla*. In *Abst. National Consultation on Production and Utilization of Orchids*, 19-21 Feb, Sikkim, p.98.

## Arts and Commerce Section

### 2015-16

60. **Shiji.P**, (2015) Content Marketing: A Tool for Digital Marketing, in proceedings for UGC sponsored *National Seminar on Refining Marketing in Digital Era of Globalization* conducted by Department of Commerce, Providence Women's College, Calicut, on 3rd & 4th September,2015
61. **Reshma.P** 'A Study on Factors Affecting Online Shopping' in the *National Seminar on Redefining Marketing in the Digital Era of Globalization* organized by Department of Commerce, Providence Women's College, Calicut on 3rd & 4th September,2015.
62. **Laina P** (2015) Democratic Decentralization in Kerala's People's Plan Campaign: An Overview in the Light of Gandhian Grama Swaraj. Proceedings of the *Second Annual International Kerala History Conference* held in Nov 2014 ISBN 978-93-85725-63-6
63. **Susmitha Ramakrishnan** (2015) Spatial Representation of the Rituals of Goddesses in Kerala. *Proceedings of the Second Annual International Kerala History Conference* held in Nov 2014 ISBN 978-93-85725-63-6
64. **Sheba Andrews** (2014) Land Reform and its impact on Kerala Economy. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16).
65. **Priyadarsini. P** (2015) "Beyond The Margin; Mayilamma's Struggle Towards Solidarity and Justice" in the *Proceedings of the Second Annual International Kerala History Conference* held in Nov 2014 ISBN 978-93-85725-63-6
66. **Smitha S** (2015) Social Media Marketing In Tourism Industry. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 48-50.
67. **Shiji P** (2015) Content Marketing: A Tool For Digital Marketing. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 19-21.
68. **Savitha SV** (2015) Digitalization and Social Media. *National Seminar on Redefining Marketing in the digital era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 80-81.
69. **Reshma P** (2015) A Study on Factors Affecting Online Shopping. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 37-39.
70. **Shilka MV** (2015) Internet Marketing- Search Engine Optimization. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 74-75.
71. Ann Rose Angels (2015) *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp

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72. **Shilpa N** (2015) A study on Mobile Marketing Among Youngsters. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 57-61.
73. **Sareena Akbar** (2015) A study on Online Shopping- The Revolutionized Wave in Next Gen Shopping. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 45-47.
74. **Nivedya Pramod and Anusree P** (2015) Online Advertising. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 64-66.
75. **Henaas Musthafa and Fathima Zarin K** (2015) Online Shopping. *National Seminar on Redefining Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 69-70.
76. **Afeefa K and Nefertiti J** (2015) Social media marketing. *National Seminar on Redefining*

*Marketing in the Digital Era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 76-77.

77. **Amina Abdul Hakkim** and **Rose Mary Mathew** (2015) Social Media Marketing. *National Seminar on Redefining Marketing in the digital era of Globalization*, organized by Providence Women's College Kozhikode ISBN 9789382709954. Pp 78-79.

#### 2013-14

78. **Ninikala.K** (2013) "A Study on Job Stress of Employees in SBI with Special Reference to Kozhikode District" in the *National Seminar on 'Multi Variate Analysis in Commerce and Management Research'* conducted by Kuriakose Gregorious College, Pampady, on 16th and 17th December, 2013.
79. **Priyadarsini. P** (2013) 'Manual Scavenging; A case Study of the Night Soil Carriers of Kozhikode' at the *National Conference for Vice Chancellors and Principals of the Member Institutions of The All India Association for Christian Higher Education* held at Christ University, Bangalore on 2nd May, 2013 ISBN No.978-93-81208-24-3
80. **Priyadarsini. P** '(2013) A Brief Study of Manual Scavenging in Kozhikode ' in the *Proceedings of the South Indian History Congress* held at Thiruvananthapuram, 2013 , ISSN 2229-3671

#### 2012-13

81. **Syama E.** (2012) Deceptive Polarities in Raja Rao and V. S. Naipaul. *Proceedings of UGC sponsored National Seminar on New Literatures* published by the Dept. of English, Govt. Brennen College, Thalassery.
82. **Surya K**(2012) The Enigma of Female Independence. *Proceedings of UGC sponsored National Seminar on New Literatures* published by the Dept. of English, Govt. Brennen College, Thalassery
83. **Priyadarshini P.** (2013). A Brief Study of Manual Scavenging in Kozhikode. *proceedings of South Indian History Congress* held at Thiruvananthapuram.
84. **Susmitha Ramakrishnan.** (2012) Retrieving Social History: A Study of Women's Status based on the Analysis of Vadakkan Pattus *Proceedings of 32<sup>nd</sup> Session of SIHC* Madras University, Chennai
85. **Susmitha Ramakrishnan.** (2013) Spatial Relationship from the Inner to the Outer in Rituals and Religious Symbols *Proceedings of 33rd Session of SIHC* Kerala University, Thiruvananthapuram
86. **Laina P.** (2013) The Colonial State and Gandhian Strategy' in *Proceedings of the Indian History Congress, 74<sup>th</sup> Session, Cuttack, ISSN 2249-1937.*

#### Popular articles

1. **Jaseena Joseph**(2013) Saphthagunanglude Amma, in *Sandesam Catholic bulletin*
2. **Jaseena Joseph** (2013) Vithugunam Pathugunam, in *Sandesam Catholic bulletin*
3. **Jaseena Joseph** (2013) St. Teresa of Avila and Carmelite Spirituality, in *Sandesam Catholic bulletin*
4. **Jaseena Joseph** (2013) Karuna- Manushikadhivikabavangal, in *Sandesam Catholic bulletin*
5. **Jaseena Joseph** (2013) Prakiyile Suvisheshngal., in *Sandesam Catholic Bulletin*
6. **Jaseena Joseph** (2013), Dhivaviliudevazhikal. *Cherupushpam*
7. **Jaseena Joseph** (2014) Sanyasathinte swathvabavangal' *Carmel- A Religious Magazine*
8. **Jaseena Joseph** (2014) Vows and Religious Life. *Sidhiyum Sandanum Samarpanaam*

9. **Jaseena Joseph** (2014) Creative Fidelity & St. Teresa of Avila., *Sidhiyum Sandanum Samarpanaum*
10. **Jaseena Joseph** (2014) Script writing and Asst. director - Mother Veronica, Foundress of Apostolic Carmel Documentary film - Boulevard of Mother Veronica
11. **Jaseena Joseph** (2014) Articles on Gospel values, family oriented articles in Catholic Bulletins-February, May, July.

### Oral / Poster presentations in seminars/ Conferences

#### Science Section

##### 2014-15

1. **Reshnu Suresh E.** (2014) Ethnogaecological Practices Among the Tribes Of Kerala. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, sponsored by Kerala State Higher Education Council & ICHR (Nov 14-16, 2014).
2. **Reshmi P Thomas** (2014) Historical Aspects of Ayurveda and its emergence in Kerala, *Second Annual International Conference on Kerala History*, organised by Providence Women's College, sponsored by Kerala State Higher Education Council & ICHR (Nov 14-16, 2014).
3. **Minoo Divakaran & Amritha A M.** (2014) The Spice Route-linking India to the World History. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, sponsored by Kerala State Higher Education Council & ICHR (Nov 14-16, 2014).
4. **Pilty Peter A.** (2014) Sacred Groves of Kerala – The Historical Aspect. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, sponsored by Kerala State Higher Education Council & ICHR (Nov 14-16).
5. **Jija Mathew** (2014). Historical Aspects of the Medicinal Importance of Sage (*Salvia officinalis*) *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16, 2014).
6. **Sangeetha G Kaimal** (2014) The Coconut Mite *Aceria Guerreronis* Keifer – A Plague in Kerala. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16)
7. **Anjana George** (2014) Chemical Perspectives of Endosulphan Disaster in Northern Kerala. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16).
8. **Manjusha K.K.** (2014) Malayalam Computing. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16, 2014).
9. **Julie E.** and Ramani N., (2014). Diversity of Oribatid Mites of Kerala –A Historical Review. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16, 2014).
10. **Sini R** (2014) “Strong Field Gravitational Lensing by Schwarzschild Black Hole and Schwarzschild Anti de Sitter Black Hole having Cosmic String”, *National Seminar on Recent Trends in Astro Physics* organized by St. Peter's College Kolencheri on 13-14 Aug 2014.
11. **Subha Babu Jayaprakash** (2015) Survey on Ant Species Diversity in Providence Women's College Campus. *National Seminar on 'Biodiversity its Concepts and Concerns'*, organized by Providence Women's College, Kozhikode, sponsored by UGC (January 15-

16.)

### Students

12. **Fasna K, Febina K, Anu Antony, Aswathy ET, Anusree EP&Deena MJ**, (2014) *Macrofungal Diversity of Southern Region of Kozhikode District. National Seminar on Plant Diversity* organized by Govt. Arts & Science College Kozhikode, sponsored by Directorate of Collegiate Education (December 10-11, )

### 2013-14

13. **Subha Babu Jayaprakash** (2013) Comparison of Litter Arthropod Community in Coffee and Pepper Plantations in Wayanad *Region Biological Conference 2013*.

### Arts Section

### 2015-16

1. **Smitha S and Ninikala K** (2015) FDI in Tourism. *National Seminar on FDI and Indian Economy a Multiperspective Evaluation* organized by SN college Calicut 23-24 Oct 2015.
2. **Smitha S** (2015) Surrogacy a Translational Practice in Medical Tourism. ICMR & ICSSR SRC. *National Seminar on Social and Economic Dimensions of Medical Tourism in India*. organized by Periyar University Salem 8-9 Jan 2015.
3. **Smitha S** (2015) Advances and innovations in tourism and hospitality management. *National seminar* organized by Mangalore University, 5-6, march 2015.
4. **Annie Antony** (2015) Islamic Banking'. UGC sponsored *National Seminar 'Recent trends in Capital Market'* organized by Amal College, Nilambur on 7th & 8th Jan 2015.
5. **Reshma P& Swapna** (2015) Successful Women Entrepreneurs in India", UGC sponsored *National Seminar 'Educational, Innovation & Entrepreneurship-a Development Perspective'*, CKG Memorial Govt. College Perambra, on 3-4 Feb, 15.
6. **Sheeba Andrews** (2015) "Religion and Spirituality of Swami Vivekananda" *National Seminar* organized by Nirmala College Moovattupuzha. 15-1-2015
7. **Susmitha Ramakrishan** (2015) Paper-Representation of Bhagavathi Myths in various parts of Kerala. *International Conference on Space, Spatiality and Performance* organized by CPRACISIS, Thrissur on 7-8 Feb 2015.
8. **Laina P** (2015) Political Paradigms of Gandhian Gram Swaraj in Democratic Decentralisation- A Cultural Critique of People's Plan Campaign in Kerala" *19th Annual Conference and International Seminar on Crisis Affecting Peace, Prosperity and Culture-The Third World Scenario*, organized by the Association of Third World Studies South Asia Chapter, Sree Sankaracharya University of Sanskrit, Kaladi.
9. **Deepa K&Prasy VK** (2015) Role of FDI: A special Reference to Infrastructure in India. *National Seminar* organized by SN College Chelannur).
10. **Sreekumari S**, (2015) Charithram Vismarichavarude Adhijeevana Samaram. *Third Annual International Conference on Kerala History*, organised by CMS College, Kerala, sponsored by State Higher Education Council & ICHR (26-27th Nov)
11. **Sreekumari S**, (2015) 'Samskarika Samvedanavum Purogamana Kala Sanghadanayum', in the *Seminar 'Literary Criticism'* organized by VK Krishna Menon College, Kannur (31st July)
12. **Sreekumari S**, (2015) Purogamana Sahithya Sanghavum Malayala Sahithyavum, in the *Seminar* organized by SARBTM Govt. College Muchukunnu.
13. **Jaseena Joseph** (2015) Laudathosiyum Chila Bhoomivicharangalum. *Third Annual International Conference on Kerala History*, organised by CMS College, Kerala, sponsored by State Higher Education Council & ICHR (27th Nov)

14. **Santhi Vijayan** (2015) Oppositional Consciousness at Work in Sarah Joseph's *Oorukaval*. *Third Annual International Conference on Kerala History*, organised by CMS College, Kerala, sponsored by State Higher Education Council & ICHR (27th Nov)
15. **Sreekumari S.** (2015) 'KPAC Nadakangalile Sthree Kathapathrangal. *National Seminar* organized by Govt. college kasaragod.
16. **Arunima.P** (2016) 'IPO in Indian Capital Market' India' in the *National Seminar* organized by Post graduate Department of Commerce, Christ College, Irinjalakuda on 16,17,&18 February, 2016.
17. **Ninikala.K**(2015) A study on the Student's Perception about Entrepreneurship Development Club with special reference to Calicut city' in the *International conference on 'Emerging Trends in Finance and Development'* organized by Post graduate department of commerce, M.E.S Asmabi college, P.Vemballur on 26<sup>th</sup> and 27<sup>th</sup> November, 2015.
18. **Priyadarsini. P** (2015) The presence of Caste in the Social Milieu of Kerala: The Relevance of the Ideologies of Dr. B R Ambedkar" at the *Third Annual International Conference on Kerala History* held at CMS College, Kottayam ,2015
19. **Priyadarsini. P** (2016) An Overview of Dr. Ambedkar's Long- term Strategies and the Question of Caste in Contemporary Indian Society. *South Indian History Conference* held at Pondicherry,2016

## 2014-15

20. **Vidya KT** (2014) Relevance of River Basin Organizations in Kerala. *National Seminar* organized by Asmabi College Kodungallur.
21. **Vidya KT** (2014) Missing Women- the Economic Impact. *National Seminar* organized by Govt. Arts & Science College Kozhikode.
22. **Vidya KT** (2014) Tracking the Path of Women Lost in Red Streets. *National Seminar* organized by Govt Arts & Science College Kozhikode
23. **Vidya KT** (2014) The Paradox of Gender Inequality in Kerala. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16).
24. **Jyothismathi** (2014) Consumption Patterns in Kerala. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16).
25. **Ninikala K** (2014) Changing Dimensions of Kerala State Lottery – a Study on Buyer's Perception with Special Reference to Kozhikode District. *Second Annual International Conference on Kerala History*, organised by Providence Women's College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16).
26. **Vidya KT**(2014) Indo-China Trade: From Silk Route to the Present. *International Conference on India's Asian Order-Culture, Economy and Security*, organized by the Dept. of Civics and Politics, Firozshah Mehtha Research Centre in collaboration with Mulana Abul Kalam Centre for Culture, Kolkata, University of Bombay, 14-16 Dec 2014.
27. **Ninikala K.** (2014) Foreign Direct Investment in Tourism" UGC sponsored *National Seminar 'FDI and Indian Economy-A multi perspective evaluation* 'S.N College, Chelannur on 23rd & 24th Oct 2014.
28. **Vidya KT** (2014) Ensuring Sustainability of Rivers by Integrating RBOs with NGOs". *The Annual International Conference*, Department of Economics, Central University of Kerala Kasargode, 16-17 Feb 2015.
29. **Aparna Nandakumar** (2014) "A Generation Awakens: Youth and Politics in a Postcolonial Nation" *25th Annual ASNEL and 14th Biennial GAST International Conference on Postcolonial Justice*, University of Potsdam, Berlin, 29 May-1 June 2014
30. **Aparna Nandakumar** (2014) "The Emergence of the Rebel; Rahman and the Figuration of Youth in Malayalam Cinema" UGC *National Conference on Film, Film studies and ideology*, Sree Kerala Varma College, Thrissur, 12-14 Nov,14.



31. **Elizabeth Antony** (2014) Revisioning Caste and Gender: A Dalit Critique of Select Poems of Meena Kandasamy” UGC *National Seminar on Dalit Feminist Autobiography*, organized by S.H. College, Thevara, Kochi, 28-29 Oct, 14.
32. **Priyadarsini P**(2014) India China Trade: From Silk Route Days to the Present’ *International Conference on India’s Asian order-Culture, Economy and Security* organized by the Dept. of Civics and Politics, Pheroze Shah Mehta Bhavan Research Centre, University of Mumbai Collaboration with Maulana Abul Kalam Azad Centre for Culture, Kolkata in Mumbai on 14th Dec 2014.
33. **Priyadarsini P** (2014) ‘Democracy and the Question of Caste in Modern India’ at the *National Seminar on ‘Political Process Towards a Democratic Culture: Strands in the Construction of Modern Kerala’* organized by The University of Kerala on 18th March 2015.
34. **Jaseena Joseph** (2014) ‘Arangum Sthree Swatha Vishkaramu’, UGC *National Seminar*, Vimala College, Oct 11,2014.
35. **Smitha S** (2014) Village tourism in Kerala. UGC *National Seminar on the Prospects for Development of Travel & Tourism*, organized by Pazhaasiraja College Pulpally, Wayanad 27-28 Aug 2014.
36. **Jaseena Joseph** (2014) Thozhilkendrathile Udachuvarkunna Sthreethwam. *Second Annual International Conference on Kerala History*, organised by Providence Women’s College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16).
37. **Ninikala.K** (2014) Changing Dimensions of Kerala State Lottery- A Study on Buyer’s perception with Special Reference to Kozhikode District” in the *Second International Kerala History Conference* organized by Providence Women’s College, Kozhikode, on 14,15 & 16th November 2014.
38. **Julie P John**(2014) Judicial Activism in Kerala. *Second Annual International Conference on Kerala History*, organised by Providence Women’s College, Kerala, sponsored by State Higher Education Council & ICHR (Nov 14-16, 2014).
39. **Ninikala.K** (2014) FDI in Tourism” in the *National Seminar entitled ‘FDI and Indian Economy- A multi perspective evaluation’* conducted by Department of Commerce, S.N college, Chelannur on 23rd & 24th October 2014.
40. **Reshma.P** (2015) Successful Women Entrepreneurs in India’ in the *National Seminar on ‘Innovation & Entrepreneurship’* organized by Department of Commerce, CKG Memorial Govt. College, Perambra on 3rd & 4th February, 2015.
41. **Shiji. P.** and **DeepaAshok** (2014) Role of Self Help Groups in Rural Women Empowerment*National Seminar* organized by St. Agnes College, Mangalore on 26th and 27h September 2014.
42. **Shiji P.** (2014) Avenues of PPP in Irrigation Management *National Seminar* organized by Little Flower College, Guruvayoor 6th and 7th August 2014.
43. **Shiji.P** and**SunithaSunny** (2014) “FDI: an Outward Perspective” *National Seminar* organized by Department Of Commerce, Sree Narayana Guru College, Chelannur. On 23rd and 24th October
44. **DeepaAshok** and **Prasy**“FDI with special reference to Infrastructure. *National Seminar* organized by Department Of Commerce, Sree Narayana Guru College, Chelannur. On 23rd and 24th October
45. **Shiji.P** (2014) Leadership Theories from Bhagavatgita, in the *International Seminar* organized by the Department of History, Providence Women’s College, Calicut On 14th,15th, And 16th November2014.
46. **Deepa Ashok** and**Prasy V.K** (2014) “Women empowerment through kudumbasree. *International Seminar* organized by the Department of History, Providence Women’s College, Calicut On 14th,15th, And 16th November 2014.

47. **Ninikala.K** (2013) A study on Quality of Research Work done by Students. *National Seminar on Contemporary Issue of Research Methodology in Social Science* conducted by post graduate department of commerce, N.M.S.M. Govt. college, Kalpetta, on 25th & 26th November 2013.
48. **Priyadarsini. P** (2013)‘ A Brief History of Manual Scavenging in Calicut; with special reference to the History of Night Soil Carriers of the Locality. *South Indian History Congress* held at Thiruvananthapuram in 2013
49. **Priyadarsini. P** (2013)‘ ‘Ecofeminism in India with Special Reference to the Chipko Movement at the *National Seminar* organized by the post graduate Dept. of History of Sri, C. Achyutha Menon Govt.College, Kuttanellur, Trissur
50. **Priyadarsini. P** (2013)‘ ‘Contract Farming or Gandhian Trusteeship,What is Good for Agriculture in India?’ at the *National seminar on ‘Globalisation and Rural Economy* organized by the Chair for Gandhian Studies and Research,University of Calicut in 2013.
51. **Priyadarsini. P** (2013) ‘Ecofeminism : ACase Study of Plachimada at the *International Conferenceon Kerala History*, organized by Govt Arts and science College in.2013.
52. **Sreekumari S** (2013) ‘Keralathile Thozhilali Prasthanathinte Charithravum Viplavamsam Pakarnna Malayala Nadakavum’ *Seminar* organized by Dept. of Malayalam and Kerala Studies (3rd Nov)

## 2012-13

53. **Rose Mary George** (2012) Contested bore wells: Apartment Boom and Groundwater Crisis in Kozhikode city Corporation. *National Seminar on Water Management: Mounting Challenges and Responses*organized by C Achutha Menon Study Centre Thiruvananthapuram
54. **Rose Mary George** (2012) Resource Appropriation in Kerala’s Private Lands: some Socio-political and Legal Issues. *National Seminar on Land Question in Kerala: Socio Economic and Environmental Perspectives* organized by Dept. of Political Science and Institute Of Parliamentary Affairs Thiruvananthapuram.
55. **Laina P** (2012) The politics of Gandhian Nationalism mobilization of Indian Women. *Indian History Congress*, University of Mumbai.
56. **Laina P** (2013) Subversive Strategies in (Re)gendering Indian National struggle. *National Seminar on Redefining Morals and Recasting Models, Gender Formations During Colonial Period* organized byKKTM Govt. College Kodungallur.
57. **Ninikala.K** (2012) Customers’ Perception on Gold Loan: A Comparative Study on Banking and Non Banking Financial Institutions” in the *National Workshop on Research Article writing in Commerce & Management* conducted by Department of Commerce, Govt. Victoria college, Palakkad on 22nd & 23rd November, 2012.

\*Number of publications listed in International Database

Scopus-7

Inspire – 6

### \* Books/Monographs (By Faculty)

1. **Sreekumari S** (2016) *Keralathile Sthreevimochanathinte Charithram*, Kerala Bhasha Institute
2. **Sumangala R** (Published in 2007, Revised in 2015), *A Course material on Methodology of Science and Physics*, Calicut University Central Cooperative Stores Ltd.
3. **Rose Mary George** (2012) *Common Property Resources and Human Rights : Grass root Politics of Water Struggle in India*. Century Publication, NewDelhi. (ISBN 978-

81-7708-320-0)

4. **Lakshmi Devi B** (2012) *Inorganic Chemistry*. Manjusha Publications Kozhikode.  
(By Students)

1. **Anjumol B.** (2012) *Thulamazha Peyyumbol*. Lipi Publications.
2. **Ananya G** (2015) *Njan Seetha*. Mathrubhumi Books

**\*Chapters in Books**

**Science Section**

**2015-16**

1. Nirmal Babu K., E.V.D. Sastry, K.V. Saji, **Minoo Divakaran**, H.J. Akshitha, S. Aarthi, A. Sharon, P.N. Ravindran and K.V. Peter (2015) Diversity and Erosion in Genetic Resources of Spices, In MR Ahuja and SM Jain *et al* (eds) Sustainable Development and Biodiversity 7. Genetic Diversity and Erosion in Plants Indicators and Prevention, Vol. 1 Springer, Switzerland, p: 225-261
2. Nirmal Babu K, **Minoo Divakaran**, Rahul PR, Anupama K, Peter KV and Sarma YR (2015) Biotechnological approaches in improvement of Spices – a review, in B. Bahadur, M. Venkat Rajam, L. Sahijram, K.V. Krishnamurthy (Eds.) Plant Biology and Biotechnology - Vol., Plant Genomics and Biotechnology, Springer. p: 487-516

**2014-15**

3. **Minoo Divakaran** (2015), Mustard, in *Encyclopedia of Agriculture and Food Systems*, Elsevier
4. **Minoo Divakaran** (2015) Micropropagation, *In Vitro* Conservation and pollen storage of Vanilla (*Vanilla planifolia* Andrews) pp xxxx. In SM Jain and PK Saxena (Eds), *Springer Protocols, Methods in Molecular Biology 547, Protocols for In Vitro Cultures and Secondary Metabolite Analysis of Aromatic and Medicinal Plants*, The Humana Press, (Springer), USA.
5. **Minoo Divakaran** (2015) Micropropagation, Plant regeneration, synseed, *in Vitro* Conservation, and genetic transformation in Black pepper. pp xxxx. In SM Jain and PK Saxena (Eds), *Springer Protocols, Methods in Molecular Biology 547, Protocols for In Vitro Cultures and Secondary Metabolite Analysis of Aromatic and Medicinal Plants*, The Humana Press, (Springer), USA.

**2013-14**

6. **Julie E.**, Ramani N. & Sheeja U.M. (2013). Diversity of oribatid mites in some mangrove ecosystems of Calicut district of Kerala. In: *Mangroves of India- their biology and uses*. Bhatt J R. Ramakrishnan, S. ANJAPPA.M., Remadevi.O.K., Nilaratna.V and Venkataraman. (Eds) Zoological survey of India;. 361:368.
7. **Minoo Divakaran** (2014) Randomly Amplified Polymorphic DNA (RAPD) and Derived Techniques, in Pascale Besse (ed.) *Molecular Plant Taxonomy: Methods and Protocols, Methods in Molecular Biology, Vol.1115*, Springer Science + Business Media, New York, p.191-209, 2014.

**2012-13**

8. **Minoo Divakaran** (2012) Capers and Caperberries. In *Handbook of Herbs & Spices* (Peter KV Ed). Vol.2.193-224.
9. **Minoo Divakaran** (2012) Curry Leaf. In *Handbook of Herbs and Spices*. Vol.1.
10. **Minoo Divakaran** (2012) Galangal. In *Handbook of Herbs & Spices* (Peter KV Ed). Vol.2.303-318.

11. **Minoo Divakaran** (Year) OtherHerbs and Spices. In *Handbook of Herbs & Spices* (Peter KV Ed). Vol.2.534-582
12. **Minoo Divakaran** (2012) Cryopreservation of Spices Genetic Resources, In Igor I. Katkov (Ed). *Current Frontiers in Cryobiology* , ISBN- 978-953-51-0191-8, InTech-Open Access Publisher (Croatia) P. 457- 84

## Arts Section

### 2015-16

1. **Sreekumari S**, (2016) 'Sahithya Sanghadanayum Malayalasaahithyavum' In: '*Malayala Sahithya Charithram*' Ed.N Sam., Kerala Sahithya Acdemy.
2. **Sreekumari S**, (2015) 'BM Suharayude Akasabhoomikalude Thakol' (Malayalam) In: '*Sthreepaksha Novalukal*' Ed. Sushama.

### 2014-15

3. **Sreekumari S**, (2015) 'Samskarika Samvedanavum Purogamana Kala Sanghadanayum' (year) In: '*Vimarsanathinte Rashtreeyam*'; likhitham books ISBN 978-819-251-11 60. Pp 238-242.

### 2013-14

4. **Rose Mary George** (2013) UN Jalasahakarana Varsham 2013, Nadijalasamyojanam. *Malayala Manorama Year Book* 2013. Pp 503-508.
5. **Sreekumari S** (2013) Nadakam oru Parishkarana Prasthanam - *Pennarangu-Kaalantharathil- Samada A collective for Gender Justice-* Eds: Priya Nair, Rajalakshmi, Savitha.

### 2012-13

6. **Laina P.** (2012) The Politics of Constructive Programme: The Temple Entry Movements in Kerala' in Dr. K.N.Ganesh (Ed.) *Exercises in Modern Kerala History*, Sahithya Pravarthaka Co-operative Society Ltd., Kottayam,. ISBN- 978-81-922822-8-2
7. **Sreekumari S**, (2012) 'Visudha Sthree Silpam Varthedutha Silpi' In: '*Ezhuthachante Kavyalokam*' Publ, University of Calicut

## Books Edited

1. Modern Kerala Section of Proceedings of the Second International Kerala History Conference ISBN 978-93-85725-63-1(2016)(Editor: Priyadarshini P)
2. Proceedings of the National Seminar on Redefining Marketing in the Digital Era of Globalization.(2015). (Editors: Ninikala K & Sunitha Sunny)
3. Proceedings of the National Seminar on 'Biodiversity, its Concepts and Concerns. (Editor: Nishi Ann, Sangeetha G Kaimal & Julie E)
4. Proceedings of the National Seminar on Forest Biodiversity Conservation (2013). (Editors: Dr. Deena Meria Jose, Dr. Minoo Divakaran)
5. Proceedings of the National Seminar on Facets of Physics (2014) (Editors: Dr. Sobha A & Dr. Sumangala R)
6. *An Acorn that was Quickened by Grace, A Brief History of Providence Women's College.* (Author: Sr. Carmila AC, Co Editors: Bindu A, Syama E, Priyadarshini P. Susmitha Ramakrishnan & Laina P)

## Books with ISBN/ISSN numbers with details of publishers

1. Proceedings of the National Seminar on Facets of Physics, ISBN 978-81-927973-6-6, NAS Publishers, 2014
2. Proceedings of the National Seminar on Redefining Marketing in the digital era of

Globalization. ISBN 9789382709954. Dept. of Commerce & Management PWC Kozhikode 2015

3. Proceedings of the National Seminar on 'Biodiversity, its Concepts and Concerns. ISBN 978-93-82709-80-0. Dept. of Zoology, PWC Kozhikode

\*Citations : Ranges from 17 to 274  
\*SNIP -  
\*SJR -  
\*Impact factor :  
\*h-index range : Ranges from 2 to 8

### **Radio talks on All India Radio - by**

1. Dr. Sr. Neetha, on Chemistry in our Lives
2. Dr. Jaseena Joseph (9 Nos)
3. Ms. Thressiakutty PV, on National year of Mathematics
4. Ms. Suchitra E, on Statistics Day
5. Dr. Sini R, on Ozone
6. Ms. Bindu Amat – 'Music for Language Learning' 'Presentist Shakespeare' and 'A Review of *A History of Seven Killings*'
7. Dr. Priyadarshini on Manual Scavenging: A Socio Political Analysis

#### 3.4.4 *Provide details (if any) of*

- *Research awards received by the faculty*

Dr. Minoo Divakaran - The best scientific article award 2015 for a paper published in International Journal of Innovative Horticulture by Confederation of Horticulture Associations of India, New Delhi

- *Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally*
- Dr. Minoo Divakaran – invited by the International Orchid Conservation Consortium to chair a session at the International Orchid Conservation Congress, France, 2013.
- Aparna Nandakumar was invited to chair a session at the 25th Annual ASNEL and 14th Biennial GAST International Conference on Postcolonial Justice, University of Potsdam, Berlin, 29 May-1 June 2014

#### **Faculty as Research guides**

- Dr. Minoo Divakaran recognized as research guide by MG University (Environmental Science), Calicut University (Botany)
- Dr. Sreekumari recognized as research guide by Calicut University & Kerala Kalamandalam Deemed University (Malayalam)
- Dr. Jeena K recognized as research guide by Calicut University (Physics)

#### **Faculty as members in**

##### **a) National committees**

4. Dr. Mini P Balakrishnan - Member, Academic Council, University of Calicut.
5. Dr. Latha P (Panakkada), Member Board of Studies UG Physics, University of Calicut.
6. Dr. Latha P (Panakkada), Member, Board of Studies Instrumentation, University of Calicut.

7. Dr. Sobha A -Member, Academic Regulatory Committee, Veda Vyasa Vidyalaya, Kozhikode
8. Dr. Deena Meria Jose- Member, Board of studies in PG Botany, St Joseph's College Devagiri (Autonomous)
9. Dr. Minoo Divakaran – Member of Selection Board, Malabar Botanical Garden, Kozhikode
10. Bindu A - Member of Interview Panel For Selection of SDEs of ASAP
11. Bindu A. – Member, Syllabus Revision Board, Maharajas College, Ernakulam
12. Dr. S. Sreekumari- Scrutiny Board Chairman, Career Related Degree Programme, University of Kerala
13. Dr. S. Sreekumari- Member Board of Studies -UG, University of Calicut
14. Dr. S. Sreekumari- Member Board of Studies -UG University of Calicut
15. Dr. S. Sreekumari- Director Board Member of Calicut District Bhavana Nirmana Bank
16. Dr. S. Sreekumari- Adjudicator, Evaluation of PhD Thesis, Kerala University
17. Dr. Laina P- Member, Indian History Conference
18. Dr. Priyadarshini, Dr. Susmtha Ramakrishnan, Dr. Laina P- Members, Kerala History Conference
19. Dr. Priyadarshini P- Member, Kerala Council of Historical Research
20. Mrs. PV Thressiakutty- Kerala Mathematical Association
21. Mrs. Rosamma Devasia- Kerala Mathematical Association
22. Mrs. Suchithra E- Kerala Statistical Association

## b) International Committees

1. Dr. Minoo Divakaran - Member of Research Committee for Ph.D. Thesis of Mr Sayuj (CIRAD, France) Molecular approaches for resistance to *Fusarium oxysporum* in *Vanilla* (Orchidaceae)

### c) Editorial Boards

1. Dr. Minoo Divakaran - Editorial Board Member - Advanced Research in Biological Sciences (Access International Journals)

### Faculty as Reviewers of Journals

1. Dr Minoo Divakaran - African Journal of Biotechnology, Journal of Biotechnology and Pharmaceutical Research, European Journal of Scientific Research
2. Dr. Deena Meria Jose - Journal of Agriculture and Biodiversity Research, African Journal of Biotechnology
3. Dr. Jija Mathew - Pharmaceutical Biology

- Incentives given to faculty for receiving state, national and international recognitions for research contributions.

Nil

## 3.5 Consultancy

### 3.5.1 Give details of the systems and strategies for establishing institute-industry interface.

The college designs its curriculum in accordance with the changing trends in the industry and employment sector. In designing the Add-on and Certificate courses, the departments sign MoUs with leading companies and other establishments. Some of the sector where such institute-industry interface has been developed, are, industries like IATA, Hotel Management and Travel agencies, Share trading companies, Central Silk Board, Keltron, Malabar Gold,

Tourism industry etc, for conducting on-the-job trainings, internship, certificate courses and add on courses

3.5.2 *What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?*

The institution encourages and supports the faculty members to channel their expertise in different fields, towards the benefit of the community. Expertise of the faculty and other facilities available in the institution are informed through the exhibitions arranged by the departments, website of the college, the village facilitation centre, and the annual Profile published by the college.

3.5.3 *How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?*

The institution encourages the staff to utilize their expertise and available facilities for consultancy services through interaction with other institutions and through its extension activities. The Mother Veronica Prize instituted by the ACES for excellence in extension activities annually, is a major incentive for the faculty to utilize their expertise. The institution encourages the use of its laboratory facilities for water analysis, sky watching, museums and other lab equipment by the public.

3.5.4 *List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years*

- Resource Persons for UGC approved Refresher Courses in the fields of Fractals and Image Compression, Non-Linear Dynamics and Feminist Literary Theory
- Convenors and Organising Secretaries for Organising Committees of various International, National and Regional Conferences organised in association with other institutions.
- Question Paper setters for various Universities and Autonomous Colleges
- External Evaluators for Theory and Practical Examinations of Autonomous Colleges
- Resource persons for various talks held at other institutions
- Quiz Masters at District and State levels
- Chair for various sessions in International, National and Regional seminars and conferences
- Jury Members for various competitions, Exhibitions etc.
- Resource persons in Spoken English and Communication Skills
- Resource persons for radio programmes

*Revenue generated:* Most of these consultancy services are done in an honorary capacity. The remuneration for question paper setting and valuation is provided as per University norms.

3.5.5 *What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?*

The policy of the institution in this regard is to utilize any remuneration generated through consultancy, for arranging further training sessions and workshops for the benefit of the students and the community.

### **3.6 Extension Activities and Institutional Social Responsibility(ISR)**

#### **3.6.1 How does the institution promote institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

The vision of the college is the holistic development of the individual. Learning through Service is one of the best practices of the institution. The college thus accords significant priority to involving the community in its extension activities through the following means:

#### **Community development programmes**

- Adoption of village, housing colonies and schools
- Cleanliness drive of public places like the Collectorate, hospitals, beach, old age Homes, orphanages, residential colonies and public parks
- Distribution of paper bags to shops to reduce the use of plastic
- Cleaning rivers, public ponds and wells
- Collection, segregation and recycling of plastic waste from homes, the campus and the college neighbourhood
- 'Home for Homeless' project
- Drive for organ donation; hair donation for cancer patients
- Distribution of teaching aids and school kits to adopted schools and anganwadis
- Observation of days of social relevance
- Giving priority for management quota admissions to students of underprivileged sections and the college neighbourhood.
- Initiating relief activities during floods and other natural calamities like the landslide at Pullurampara Village(2012), Uttharakhand(2013) and Chennai floods(2015).
- Initiating drives against drugs, alcohol and organizing campaigns for AIDS awareness
- Observing Miss-a-Meal Programme and sharing its proceeds with the less-privileged during festivals
- Promoting organic farming in the adopted village
- Propagating the Gandhian Philosophy through the Charkha Centre
- 'Oru Pidi Ari' venture in collaboration with the Rice bucket challenge team to donate rice to the Free birds orphanage.
- Constructing check dam across Chethukadavu river, ensuring water availability in the village during summer
- Energy conservation drive
- Preparation of audiobooks to be used by the blind toCHMKLibraryCalicutUniversity
- Participation in 'Operation Sulaimani' (hunger eradication drive) and 'Yo Yo Appooppa' (attempt to improve and extend the quality of living among the elderly, especially of those living alone) as part of Compassionate Kozhikode Programme launched by the District Collector

#### **Women centred activities**

- Giving employment to women from the neighbourhood
- E Governance classes and other awareness talks given by the students to the women of neighbourhood



- Vocational training in umbrella making, embroidery, tailoring etc.
- Mother Veronica Library for women & children
- Training in mushroom cultivation
- Sewing machines to women of the college neighbourhood

### **Health Care Programmes**

- Medical camps
- Monthly visits of students to Pain & Palliative care units.
- Training programmes on First Aid in collaboration with Red Cross Society
- Awareness programme ‘Ayalsree Jeevan Raksha’ at Baby Memorial Hospital Calicut
- Blood donation, Blood Group identification camps and health survey
- Awareness programme on food adulteration

### **Academic extension**

- Conducting tuitions and self –discovery workshop” BLOSSOM” for students of locality
- Exhibition and workshop for plus two students on techniques in Analytical Chemistry

### **Programmes for Parents**

- Awareness programme on effective parenting, organic farming and plastic menace
- Mothers’ meets

### **Activities for Protection of Environment**

- Maintenance of ‘Santhisthal’ (Repository of Endemic Fruit Tree Species) in 10 cents of land outside the campus, with financial support from Kerala State Biodiversity Board.
- Participation in MAP (Mass Action for Plastic eradication) launched by the district administration
- Popularization & distribution of *Azolla* and saplings for cultivation
- Planting Avenue trees along the roadsides
- Training in Paper Bag making and vermicomposting

### **Activities for Promotion of organic farming**

- Awareness programme on natural farming- ‘Touching Land and Mind’
- Formation of Youth Farmers Club on the campus
- Collection and distribution of grow bags from Agriculture Dept. to staff and students
- Training on the preparation of Biofertilizer formulations like Jeevamritham, Beejamritham etc.
- Awareness programmes on biological pest control and preparation of biopesticides
- Restoration of soil health by Zero Budget Natural Farming introduced by Mr. Subash Palekkar in college campus

### **Water Conservation and Clean Water Drive**

- Water Literacy Programmes (awareness campaigns) – distribution of pamphlets describing well recharging, rain water harvesting etc. by members of Jalasree Club.
- Survey and analysis in the nearby localities of the college based on water survey sheet provided by CWRDM and distribution of water cards.

3.6.2 *What is the Institutional mechanism to track students’ involvement in various social movements / activities which promote citizenship roles?*

- The institution nominates faculty members as co-ordinators of social service activities annually.
- The activities are systematically documented by the departments.
- Students are directed towards social responsibility. Proper recognition and certificates are given to students performing well in the social service field.
- Thought provoking topics are assigned to students in literary and cultural competitions
- The college ensures participation in movements based on contemporary issues and social awareness programmes.

3.6.3 *How does the institution solicit stakeholder perception on the overall performance and quality of the institution?*

Stakeholder representatives are included in the IQAC and CDS. All major decisions are discussed before implementation at the annual general body meetings of the PTA. The stakeholders, including parents, alumnae and well-wishers from the college neighbourhood are invited to participate in the socially relevant programmes of the college. Their feedback is collected and suitably implemented.

3.6.4 *How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.*

Decisions regarding the extension activities are planned at various levels. Broad areas of extension activities are planned during the Staff council meetings. After this, meetings of the staff of individual departments, students' councils of individual departments, various clubs, NSS units etc. discuss and chalk out detailed action plan for the whole year.

Sl No	Activity	Amount allocated	Impact on the students
1	Community development programmes	4,00,000	Students become socially responsible and take part actively in all the programmes with social commitment
2	Women centered activities	2,00,000	A community of empowered young women is created who are aware of their rights and are able to fight against social evils, injustice, inequality etc. They are equipped with skills for becoming self-reliant.
3	Care for lesser privileged	10,00,000	Awareness of the challenges faced by the lesser privileged community and they volunteer themselves to the service of the people like the blind, physically handicapped, mentally retarded, people in the mental health centres, old age homes, poor homes, children in orphanages etc.

4	Health Care Programmes	1,50,000	Students become aware of natural health care, first aid, life style diseases etc. and they provide awareness training to the community in these aspects
5	Programmes for Parents	1,20,000	The activities planned for parents are executed with the help of students. They provide awareness and training for the parents in various aspects which boosts their confidence and commitment
6	Activities for Protection of Environment	2,50,000	Students become sensitized on the environmental hazards created by human activities and become actively involved in remedial measures to fight environmental degradation. They plan and execute activities for environmental protection
7	Activities for Promotion of organic farming	8,75,000	Awareness of the value of organic farming and promotion of activities for improving soil quality, traditional seeds, cultivation of traditional fruit trees, establishment of organic farms, production and use of biopesticides and natural fertilizers like <i>Azolla</i> , <i>jeevamritham</i> etc.
8	Water conservation and Clean water Drive	1,75,000	Students become aware of the current water related issues. They conduct surveys and awareness programmes as part of water literacy drive. They are trained in water quality analysis.
9	Energy Conservation and Management	7,20,000	Students are capable of making LED lamps themselves. They provide training to the people of the adopted village also.

*3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?*

The new members of students and faculty are given an orientation during which they are sensitized on all the extension activities and the social commitment of the college. The students are encouraged to be members of at least one of the above units. Motivational talks by the Commanding Officer, 9 Kerala Girls Battalion and the Calicut University NSS Programme Officer, are arranged every year, to encourage the students further.

The units are engaged in various activities and the college recognizes the outstanding services of the NCC cadets and NSS volunteers, with the award of prizes and merit certificates every year. Faculty members are appointed as Coordinators of the NSS units. A trained ANO guides the NCC cadets.

The two NSS units of the college have a membership of around 200 volunteers each year. Residential Camps, Seminars, Leadership Training Programmes, Peace Marches, Medical Camps and Environment Protection Initiatives are some of the regular activities. The training that the volunteers undergo helps them in their pursuit of higher studies and careers. The construction of two houses and roads in the college neighbourhood are notable achievements.

The NCC cadets of the college have excelled in various activities like Basic Leadership Camp, Thal Sainik Camp, Republic Day Parade, and training in Para jumping, Para gliding, Shooting, etc. Many of our cadets were selected to participate in the prestigious RD March on Rajpath, New Delhi. Some of them have also joined as Commissioned Officers of the Armed Forces.

The cadets and volunteers engage in extension activities also. The college arranges special classes and retests for the cadets and volunteers who miss classes and exams due to participation in various activities. They also get grace marks granted by the university.

*3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?*

The staff and students are sensitized on the problems faced by the under privileged sections. Socio economic surveys are conducted by the faculty. The Students' Profile filed by the tutors documents the socio economic background of each student. Needy students thus identified are helped in various ways like:

- Home for the homeless: Diamond Jubilee Housing project initiated in 2012, which aims at building a house for a needy student every year
- Students' Welfare Fund collected from the staff utilized for economically weak students to meet their academic needs.
- Food coupons provided to the needy students
- Fee concession in hostel for deserving students
- Mother Veronica scholarship for deserving students
- Scholarships instituted by the faculty and alumnae for deserving students
- Faculty visiting the homes of economically weak students to render aid
- Research carried out by faculty in Dalit studies

*3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.*

True to its vision, the college has adopted a curriculum that integrates outreach programmes with the academic programmes. The major activities under the Learning through Service practice are:

- Colony adoption programme  
Three colonies (Santhinagar Colony, Kattuvayal Colony & Nadakave Colony) were adopted by the college. The knowledge acquired by the students is put into practice in activities like cleaning and restoration of wells, water quality analysis, establishing waste disposal units, conducting classes on health and hygiene, tuitions for the children etc. These programmes were organized based on surveys conducted by the students in the colonies
- Blood Donors' Forum

A Blood Donors' Forum functioning in the college maintains a database of the blood groups of the staff and students. Blood is donated regularly to the needy as well as to the Blood banks. The Forum works in association with the Kerala Blood Donors' Forum, and has been recognized with many state level awards for the maximum participation in Blood Donation.

- Pain and Palliative Care

Student Volunteers undergo training in Pain and Palliative Care at the Institute of Palliative Medicine (IPM), Calicut Medical College. The Pain and Palliative Care Unit of the college has, with the IPM, organized exhibitions to display the skills of the inmates. A Donation Box has been installed in the college canteen to raise funds for the care of the terminally ill people. All these activities sensitize students to work for the benefit of the terminally ill patients. In the year 2013, the college organized a special screening of alumna Anjali Menon's film *Ustad Hotel*, for the Palliative Care patients.

- Mother Veronica Library

Mother Veronica Library, an initiative of the Dept. of English, serves the women and children of the locality. Students donate books to the collection every year. Literary events and competitions are conducted by the students of the department for the members, which enhance their organizational skills.

- Tie-Up with SUMAN

The Department of English has a tie-up with SUMAN, an NGO for the rehabilitation of young women recuperating from mental ailments. Students visit the centre to assist in the various skill-development occupations of the inmates and arrange the sale of the products they manufacture. The faculty members render financial aid to the centre. This initiative broadens the students' social outlook.

- Participation in Compassionate Kozhikode Programme

Students serve as volunteers of different programmes as part of the Compassionate Kozhikode Programme launched by the District Collector, and learn valuable lessons in the principle of inclusion.

- Care for the Old and Serving the Needy

Faculty and students visit the various old age homes, rehabilitation centres and hospitals to share food, clothing and the joy of various festivals with the inmates.

- Community Development and Welfare Activities

The following activities were undertaken by the students as a step towards upgrading the society by applying the knowledge and skills acquired during their study period.

- Distribution of study aids prepared by students, to the children in the neighbouring school
- Coaching for students in the neighbourhood by the students in English and Mathematics
- Popularization and distribution of *Azolla*, a highly nutritious cattle feed, chick feed and fertility enhancer
- Offering classes on vegetable cultivation and mushroom culture and distribution of seed material and spawn
- Computer literacy classes offered to the local women
- Socio economic survey among the houses in the adopted colony.

- Training for members of Kudumbasree Self-Help Groups in various self-employable skills.
- Training in LED Bulbs making.

#### Entrepreneurial Development Programmes

Entrepreneurial skills are promoted by the following programmes:

- Industrial motivation programmes to guide the women of the college neighbourhood to draw the benefit of various Government schemes, Entrepreneurial Opportunities for Women in the District, National Employment Guarantee Programme etc.
- Entrepreneurial Development Club, with its activities, hones the entrepreneurial skills of the students.

#### *3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?*

The college links up with residents' associations, NGOs and other organisations for community development activities. The institution has involved the community in almost all its extension activities by:

- Organizing community development programmes as part of NSS camps
- Employing women from the neighbourhood
- Initiating relief activities during floods and other natural calamities in association with the Postal department and the media
- Organizing classes and awareness talks for the women of the neighbourhood
- Initiating the drive against drugs, alcohol and organizing campaigns for AIDS awareness
- Celebrating festivals and sharing the spirit of brotherhood
- Undertaking peace rallies

#### *3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.*

The Institution associates with the following institutions:

- Directorate of Environment and Climate Change, Govt. of Kerala for protection of environment works in collaboration with Bhoomithrasena
- Communication and Capacity Development Unit, Water Resources Dept., Govt. of Kerala for water literacy and conservation, works in association with Jalasree Club
- CWRDM for water analysis
- SUMAN, rehabilitation centre for mentally challenged women
- Anweshi, women's counseling centre.
- Green World, Nanma for organic farming in the adopted village
- Vegetable and Fruit Promotion Council to promote vegetable cultivation.
- Students visit Old Age Homes, Juvenile Homes, and Rehabilitation Centres for the Mentally Challenged, Anganvadis etc.
- Various clubs function under the auspices of each department, which collaborate with other institutions for the conduct of their activities. The Radio Club works in collaboration with All India Radio, Kozhikode, the Biodiversity club in

collaboration with Kerala State Biodiversity Board, the EDP Unit with the District Industries Centre, and the Folklore Club with the Folklore academy.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

- NCC Cadets Athira S Nair and Dona Alex got selected to attend the Republic Day Parade at New Delhi in 2013 and 2016 respectively.

Sl no	Name of Award	Recipient	Category	Year	Level
1	Best NSS Unit Award	NSS unit	NSS	2015	State level
2	Best Programme Officer	Dr. Sini Dr. E. Julie	NSS	2015 2016	University level
3	Best Programme Officer	Dr. Sini R. Dr.E.Julie	NSS	2015 2016	State level
4	Best Volunteer	Sijina KP Gayathri P.	NSS	2015 2016	University level
5	Best Unit Award for Republic Day & Independence day Parades	NCC unit	NCC	2011-2016	District level

### 3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities? Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

Linkages have been established for resource personnel, imparting training to students and members of the adopted village, resource materials etc., with the following institutions:

International:

Staatliche Museum fur Naturkunde Karlsruhe, Germany

CIRAD, France

National

a. Research / Scientific / Educational organizations:

IUCAA

ISRO, Bangalore

Kerala State Biodiversity Board, Thiruvananthapuram

Communication and Capacity Development Unit, Water Resources Dept., Govt. of Kerala  
Directorate of Environment and Climate Change, Govt. of Kerala  
Zoological Survey of India (ZSI) Kozhikode  
Malabar Natural History Society, Kozhikode  
Tamil Nadu Agricultural University, Coimbatore  
Indian Council of Historical Research (ICHR)  
Kerala Council of Historical Research (KCHR)  
Sugar Cane Breeding Institute (SBI) Coimbatore  
Centre for Water Resources Development & Management  
Malabar Botanical Garden and Institute of Plant Sciences  
Centre for Medicinal Plant Research (CMPR), Kottakkal  
Central Marine Fisheries Research Institute (CMFRI)  
Indian Institute of Spices Research (IISR) Kozhikode  
Indian Institute for Social and Economic Change, Bangalore  
Regional Analytical Lab Kozhikode  
Kerala Institute for Research and Training on Adivasi Development Studies, Kozhikode  
Kerala Folklore Academy, Kannur  
Malayalam University, Tirur  
Kerala Kalamandalam, Cheruthuruthy  
Information and Public Relations Department, Govt. of Kerala  
Regional Archives, Kozhikode  
National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram  
Educational Multimedia Research Centre (EMMRC) University of Calicut  
CHMK Library, University of Calicut  
Indian Institute of Management (IIM) Kozhikode  
Indian Institute of Astrophysics, Bangalore  
National Institute of Technology, Kozhikode  
CUSAT, Cochin  
Dept. of Atomic and Molecular Physics, Manipal University  
Regional Science Centre, Kozhikode  
Attapadi Hill Development Society (AHADS) Agali, Palakkad



b. Industries:

District Industries Centre

Micro, Small & Medium Enterprise Institute, Trichur.

District Tourism Promotion Council, Kozhikode.

Central Silk Board

Keltron

Hotel Management and Travel agencies

Share Trading companies like Geojit

The institution has benefited from these collaborations on various fronts:

- (a) Curriculum development - The links with institutions of higher learning have led to upgrading the knowledge of faculty and students in modern techniques in various disciplines.
- (b) Internship - The students receive quality exposure as well as awareness on the available job opportunities.
- (c) On-the-job training – Many students of the Travel & Tourism and Commerce streams have found placements with other agencies.
- (d) Faculty exchange with the neighbouring colleges and University.
- (e) Research- Links with research institutions provide opportunities to students to have hands-on exposure to latest developments and prospects of research in their discipline.
- (f) Consultancy-The expertise of the faculty in various specializations is recognized.
- (g) Extension- CCDU- Water Resources Dept., Govt. of Kerala, Directorate of Environment and Climate Change Govt. of Kerala and Kerala State Biodiversity Board extends support for extension activities
- (h) Publication – Faculty get more opportunities to publish their findings and articles.
- (i) Student Placement- Many travel agencies and educational institutions have evinced keen interest in recruiting our students in their institutions.

*3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.*

MoU has been signed with Kerala State Folklore Academy for academic and extracurricular purposes. This allows the institution to organize seminars, workshops, interactions, folk performances etc. to acquire knowledge in the field of history and folklore.

MoU has been signed with Malabar Gold Industries for the Community College Course.

Though there is no formal undertaking, facilities are mutually shared with other academic institutions and agencies.

- KELTRON for Add on course
- Career Guidance Academy
- Waves Institute for Fashion Designing Courses.

- ‘Edunet’ for NET and Bank Test Coaching
- Emphasis Institute for Civil Services Exams Coaching

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

In collaboration with the above Research Institutions, the college has benefitted by way of knowledge upgradation. The research facilities of these institutions aid data analysis for research projects of staff and students.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

- **International level**

Sl no	Title of seminar	Organizing Department	Eminent scientist/ participants	Funding agency	Grant received
1	The Second Annual International Kerala History Conference	History	<ol style="list-style-type: none"> <li>1. Dr. Margret Frenz (St. Cross College, University of Oxford)</li> <li>2. Prof. K Gopalankutty (University of Calicut)</li> <li>3. Prof. M R Raghava Varier (Rtd Prof., University of Calicut)</li> <li>4. Prof. Rajan Gurukkal (Former Vice Chancellor, M G University Kottayam)</li> <li>5. Prof. Kesavan Veluthat (University of Delhi)</li> <li>6. Dr. MP Mujeebu Rehiman (University of Calicut)</li> <li>7. Mr Ajith Sridhar (Secretary, SPSS Kottayam)</li> <li>8. Prof. Scaria Zacharia (Sree Sankara Sanskrit University)</li> <li>9. Mr. V Sasikumar (SPSS Kottayam)</li> <li>10. Dr. Muhammed Maheen A (University of Calicut)</li> <li>11. Prof. Upinder Singh (University of Delhi)</li> <li>12. Prof. KN Ganesh (University of Calicut)</li> <li>13. Dr. P Sivadasan (University of Calicut)</li> <li>14. Prof. KKN Kurup (Former Vice Chancellor, University of Calicut)</li> <li>15. Prof. Gladys Isaac (former Principal, MCC Kozhikode)</li> <li>16. Dr. Susan Thomas (SUSS Kalady)</li> <li>17. Smt Reshma Bharadwaj (SUSS</li> </ol>	Indian Council of Historical Research & Kerala State Higher Education Council	1,50,000 (from ICHR) + 77,000 (from KSHEC)

			Kalady) 18. Mr. KK Muhammed (Former Director, Archaeological Survey of India, Delhi)		
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- **National level**

Sl no	Title of seminar / conference	Organizing Dept.	Eminent scientist/ participants	Funding agency	Amount sanctioned
1	Forest Biodiversity Conservation	Botany	1.Mr. Binoy Viswam (Former Minister for Forests, Govt. of Kerala) 2.Mr. Jayaprasad IFS (Chief Conservator of Forests, Northern Circle, Kannur) 3.Prof. PV. Madhusoodanan (Emeritus Scientist, Malabar Botanical Garden, Kozhikode) 4.Dr. Prakash Kumar K (Director, Malabar Botanical Garden, Kozhikode) 5.Dr. N. Sasidharan (Rtd Scientist, Kerala Forest Research Institute, Thrissur) 6.Dr. ARR Menon (Emeritus Scientist, Centre for Environment and Development, TVM) 7.Dr. NS Raju (Dept. of Microbiology, Mysore University) 8.Dr. Lalitha Vijayan (Senior Principal Scientist, Salim Ali Centre for Ornithology & Natural History, Coimbatore) 9.Dr. Anoop Das (Asst. Professor, MES Mampad College, Nilambur) 10. Dr. Anil Kumar (Director, Community Agrobiodiversity Centre, MS Swaminathan Research Foundation Wayanad)	UGC	49,000
2	National seminar on Statistical tools Medical Research	Mathematics & Statistics	11. Dr.M.Sreekumaran Nair (Manipal University) 12. Ms. Melisa Glanda Louise 13. Mr. Kalish M Karun	KSCSTE	20,000
3	Facets of	Physics	14. Dr. Mohanachandran, HHV Bangalore	UGC	1,28,000

	Physics		15. Mr. Satheesh MVSSC Trivandrum 16. Prof. C B Sobhan NIT Kozhikode 17. Dr. Aloysius RP CPL New Delhi 18. Dr. Renji Philip RRI Bangalore		
4	Materials Chemistry	Chemistry	19. Dr. N B Narasihma Prasad, Director, CWRDM, Calicut 20. Dr. Sabu Thomas Prof. and Head, Dept. of Nanotechnology, MG Uty. 21. Dr. Gouri, Scientist, VSSC, Trivandrum 22. Dr. Joy, Scientist, NCL, Pune 23. Dr. Shafi, Prof. and Head, Dept. of Chemistry, Calicut University 24. Dr. Sandhya Rani, Assistant Professor, NIT Calicut 25. Dr. Suni Vasudevan, Assistant Professor, NIT Calicut 26. Dr. Lisa Sreejith, Associate Professor, NIT Calicut 27. Dr. Chembakam, Principal Scientist, IISR, Calicut	UGC	1,00,000
5	Biodiversity - Its Concepts & Concerns	Zoology	28. Dr. M. Anandaraj, Director, IISR 29. Dr. P.S.Easa, Director, Kerala Forest Research Institute, Peechi. 30. Dr. Sinu P.A., Asst. Professor, Dept of animal science, Central University, Kasaragod. 31. Dr. U. Unnikrishnan, Asst. Professor, Dept of Environmental Science, Central University, kasaragod. 32. Dr. Kunji Krishnan, Former Hod, University College, Thiruvananthapuram. 33. Dr. T.V. Sajeev, Entomologist, Kerala Forest Research Institute, Peechi. 34. Ms. Aman Deep Kaur, Ifs, Dfo, Kozhikode	UGC	1,10,000
6	Advances in Genetics and Genetic	Botany	35. Prof P K Gupta (Indian National Science Academy Scientist, Meerut, Uttar Pradesh)	KSCST E	20,000

	Engineering				
7	Redefining Marketing in the Digital Era of Globalization.	Commerce	<p>36. Dr. Naveen C Amblee (Director, IIM, Kozhikode)</p> <p>37. Dr. Alice Mani (Christ University Bangalore)</p> <p>38. Mr. Shone Bibin (Strategic Relations Manager, ISDC Bangalore)</p> <p>39. Dr. Johnson DCMS (University of Calicut)</p> <p>40. Prof, Saini (SN College of Engineering Kolenchery)</p> <p>41. Mr. Rajanarayanan N (Asst. Gen. Manager, Marketing)</p> <p>42. Dr. KG Jose (Director, Rajagiri Business School, Kochi)</p> <p>43. Dr. Noushad (Farook College, Kozhikode)</p> <p>44. Ms. Sandhya Bhaskar (Chartered Accountant, Kozhikode)</p> <p>45. Mr. Arun S Unnithan (International Skill Development Corporation)</p>	UGC	Sanctioned 1,30,000, Received 1,04,000
8	Image text subjectivity visual culture and the humanities	English	<p>46. Dr. AT Mohanraj (Former Prof, Govt. Brennan College Thalassery)</p> <p>47. Dr. Deepa Srinivas (Centre for women studies, University of Hyderabad)</p> <p>48. Prof MV Narayanan (University of Calicut)</p> <p>49. Dr. Ratheesh Radhakrishnan (Indian Institute of Technology, Mumbai)</p>	UGC	Sanctioned 65,000, Received 52,000

- **State level**

Sl no	Title of seminar	Organizing Department	Eminent scientist/ participants	Funding agency	Grant received
1	Turning Pollution to Prosperity	Botany	<p>1. Dr. Lisa Sreejith, (Faculty, Dept. of Chemistry, NIT Kozhikode, Kerala).</p> <p>2. Mr. Raveendran (District Coordinator, Suchitwa Mission Kozhikode, Kerala).</p> <p>3. Mr. Babu, (Project Officer,</p>	DoECC	5,000

			CREDAI Kozhikode, Kerala).		
2	Our Environment	Botany	4. Dr. A Achuthan, (Rtd Prof., NIT Kozhikode & Environmental Activist, Kerala)	DoECC	5,000
3	Strategies for sustaining quality in higher education	IQAC	5. Dr. Ponmudi Raj (Advisor, NAAC) 6. Dr, Sailas Benjamin, Director of Research, University of Calicut. 7. Prof. Tharsis Joseph (NAAC Peer Team Member)	NAAC	50,000
4	Education in Malabar, A Retrospection	History	8. Dr. K Jayakumar (VC, Malayalam University) 9. Dr. Shinas KM (Govt. Arts & Science College Kozhikode) 10. Dr. Susan Thomas (Sanskrit University Kalady)	---	---
5	Women Empowerment	Botany	11. Adv. Noorbina Rasheed (Kerala Women's Commission member) 12. Adv. Sreela Menon (Chair person, Child Welfare Committee)	KWC (Kerala Women's Commission)	8,000

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated –

a) Curriculum development/enrichment

- Dept. of History has signed an MoU with Kerala State Folklore Academy
- A new Diploma Course 'Jewellery Designing' has been introduced under the UGC Community College Scheme, with MoUs from Malabar Gold, Calicut & Laiqa Gold and Diamonds, Thamarassery.

b) Internship/ On-the-job training : Nil

c) Summer placement : IUCAA, TIFR, BARC, IIA for Summer projects

d) Faculty exchange and professional development : Nil

e) Research : DST project in association with IUCAA

f) Consultancy : Nil

g) Extension : Nil

h) Publication: Publications in association with CIRAD, IISR, IGCAR, KCHR, IHC, SIHC, IUCAA, Central University of Kerala

i) Student Placement : Nil

j) Twinning programmes : Nil

k) Introduction of new courses : Jewellery Designing

l) Student exchange : Nil

m) Any other : Nil

3.7.6. Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

Various departments plan their activities at the beginning of the academic year and make necessary steps towards establishing linkages with other institutions. These activities are coordinated by the R&D cell and IQAC.

*Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.*

- Begun as an institution offering Pre University education to young women, the college has grown to a major centre for women's higher education, offering facilities for research in many departments
- Internal assessment of students' projects is done by the R&D cell
- The college actively collaborates with a large number of Research Centres, Government establishments and industries through linkages, research collaborations and student internships.
- Internal assessment of the departmental extension activities and awarding the Mother Veronica trophy for the best performing department.
- The curriculum of the college extends beyond the classroom, aiding the society at various levels, especially under the umbrella of the Village, Colony and School Adoption programme.
- Many faculty members offer their expertise for consultancy, particularly in areas like Non conventional energy resources, Women's studies, Plant Tissue Culture and Biotechnology, and Water analysis.

## CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 *Physical Facilities*

#### 4.1.1 *What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?*

The institution accords top priority to infrastructure development in order to ensure effective teaching and learning. The infrastructural needs identified are communicated to the Managing Governing Body (MGB). After getting the approval of the MGB, the required information and assistance are obtained from competent firms and the necessary actions are taken.

#### 4.1.2 *Detail the facilities available*

##### *a) For curricular and co-curricular activities:*

##### Lecture Halls

- A clean, green campus, with 55 spacious, well ventilated lecture halls equipped with adequate furniture, lights and fans

##### Technology enabled learning spaces

- All PG classes are enabled with audio visual tools
- Each department has a projector and laptop to supplement classroom teaching
- A centralized audio visual room with a seating capacity of 250
- Wi-Fi zones

##### Seminar halls

Two spacious halls with ICT facility

##### Laboratories

- Well equipped science labs to facilitate UG and PG practical sessions
- Plant Tissue culture lab
- Water analysis lab
- Molecular biology lab
- Radiation research lab
- Astronomical data analysis lab
- Materials Science lab.

##### Botanical Garden

A well maintained Botanical garden with space for plants from various ecological groups, members from all groups and families, rare and endangered species and plants from different agroclimatic zones.

##### *Specialized facilities and equipment for teaching, learning and research:*

- Well stocked library, departmental libraries and a digital library
- Spacious Reading room with a good number of dailies and periodicals
- Conference room



- Computers with internet facility
- Reprographic facility
- Computer labs, multi media lab and project rooms
- Museums in the Departments of History, Zoology and Botany
- Departmental staff rooms, Common staff room
- Hostels (3 nos)

**b) For extra –curricular activities**

**Sports**

- Sports ground
- Indoor stadium, basket ball and tennis courts
- Sports hostel
- Basement of auditorium for indoor games

**Physical Fitness:**

Fitness centre cum gymnasium with Tread mill, Exercise cycles, Squat stand, Abcore coaster, Body massager, Leg curl extension, etc

**Auditorium:** Spacious auditorium with the seating capacity of 1500

**NSS and NCC:** Meeting rooms for NSS and NCC for planning activities and store rooms

**Cultural activities :** College Union room, Seminar halls and auditorium, Open air stage with stone benches surrounded by trees

**Health and Hygiene**

- Medical room
- Washrooms
- Comfort zone
- Napkin vending machines and Incinerators
- Separate bins for degradable and non-degradable waste in all departments
- Water purifiers in all blocks

**Others**

- Counselling room
- Generators for uninterrupted power supply
- Separate staff rooms for men and supporting staff
- Common room for students
- College canteen
- ATM facility
- Books and stationery store
- Rainwater harvesting system
- Solar power generators
- Space for B.Ed and Fashion Designing courses
- Prayer zones: Grotto, Chapel

*4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of*

*the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).*

Optimal utilization of infrastructure is ensured by the following measures:

- The classrooms are converted into halls for University and other competitive examinations.
- The conference room serves as the examination control room and as the Counselling Centre during the time of admissions.
- The A.V. room and Seminar Halls are used for various activities – academic, co-curricular and extra-curricular.
- The spacious auditorium is the nerve centre of all extra curricular programmes. It serves as a hall for common assembly, examinations, exhibitions, and college elections.
- The Multimedia Lab is used for the various Add-on Courses, and the Computer Lab for conducting e-Commerce Course and other Certificate Courses
- The sports ground and Indoor stadium are used for Sports Day, games, practice sessions, coaching camps, inter-collegiate matches,
- The open stage is the venue for a variety of activities ranging from the academic to the extra-curricular
- The multi media lab is used as the venue for APTIS test conducted by the British Council
- The class rooms provide venue for job fairs of various companies
- The Mother Veronica Seminar hall was the venue for the state wide launch of the ASAP camp
- The class rooms are utilized for the University exams for private candidates and also for PSC exams
- The college canteen is used as the dining hall when seminars, workshops and other get-togethers are held.
- The common rooms in the hostel are used to accommodate students from other institutions when inter-collegiate events are held on the campus
- The sports hostel accommodates sports students of other institutions in accordance with the stipulations of our linkage with the District Sports Council
- Preparation of the Master Time Table, specifying the room numbers, ensures optimal utilization of all the classrooms

Amount spent on development of facilities

- PG Block : Rs 3.0 crores
- Renovation of Auditorium: Rs 20.0 lakhs
- Renovation of Canteen : Rs 3.0 lakhs
- Tennis court : Rs 3.5 lakhs
- Cricket field : Rs 5.0 lakhs
- Furniture : Rs 20 lakhs
- Maintenance of washrooms and comfort zone : Rs 1.5 lakhs

Master Plan - Enclosure no.7

Future plans include

- Expansion of the auditorium, with the addition of a new floor so that all students can be accommodated
- An additional seminar hall with state-of-the-art facilities

*4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?*

Depending on the number of differently-abled students and the nature of the students' disabilities, the required support is extended by the following measures:

- Easily accessible classrooms are allotted for students with mobility disabilities
- Scribes are appointed for visually challenged students and extra time is allotted
- Ramp is provided in the newly built PG block
- A section of audio books is provided in the library.
- The library provides a special software for the visually challenged
- Students are sensitized to help them.

4.1.5 Give details on the residential facility and various provisions available within them:

- *Hostel Facility – Accommodation available-* 110 rooms
- *Recreational facilities:* 4 recreational rooms, T.V, Radio, computers with internet facility, garden, yoga room and access to fitness centre
- *Computer facility including access to internet in hostel:* Yes
- *Facilities for medical emergencies:* Sick room, First aid facility and the proximity of a super speciality hospital.
- *Library and reading room:* Yes
- *Internet and Wi-Fi facility :* Yes
- *Constant supply of safe drinking water:* Yes
- *Available residential facility for the staff and occupancy:* NA.
- *Security:* Security personnel are appointed. Watch dogs are deployed from dusk to dawn. The campus is surrounded by high compound walls and is under CCTV surveillance. It is situated in a high security area, near the Camp Office of the City Police Commissioner.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

- Dental, Eye and Cancer awareness camps, conducted regularly provide assistance to create awareness of and detect various ailments. Since they are conducted under the auspices of the major hospitals and health organizations in the city, a provision for follow-up is also made.
- Classes on Life Guidance, 'Pro-life', incorporating sessions on sex education, women's health etc are conducted every year.
- The database available with the Blood Donors' Forum, helps to tackle emergency situations
- There is a fitness centre and constant supply of clean drinking water on the campus. The medical room provides first aid facilities and basic amenities for emergency. Medical emergencies are tackled with the help of the super specialty hospital within 1.5 kms from the college.

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

The Conference Room is utilized for the meetings of the IQAC, the Academic Council and the Grievance cell. Separate rooms are provided for Career Guidance cell, Fitness centre and cafeteria. Common rooms are provided for the teaching and non-teaching staff separately. The college has adequate number of wells that provide clean drinking water throughout the year. The auditorium is spacious and well-equipped to meet the demands of any kind of programme.

## 4.2 *Library as a Learning Resource*

4.2.1 *Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?*

Yes. The committee consists of the Principal, the Librarian, a senior member of the faculty, the Heads of the PG departments and a student representative. The committee advises on all matters related to the upkeep of the library – subscription of new journals and periodicals, purchase of books, improvement of facilities and stock verification.

4.2.2 *Provide details of the following;*

*Total area of the library (in Sq. Mts.) : 1547.27sq.mts*

*Total seating capacity : 137*

*Working hours : 8 hours*

(a) *On working days : 9 am– 4.30 pm*

(b) *On holidays : 9am – 4.30 pm (except on second Saturdays and Sundays)*

(c) *Before examination days : 9am – 4.30pm*

(d) *During examination days : 9am – 4.30pm*

(e) *During vacations : 9am – 4.30pm*

The Reading room is open from 9am to 5pm on all working days including Saturdays and during summer holidays.

*Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)*

There is a spacious, well ventilated reading room, with adequate number of lights and fans, for relaxed reading and a separate IT zone for accessing e-resources.

4.2.3 *How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.*

The library is periodically updated and fresh stock added subject to the annual financial allocation. Suggestions from faculty and students are reviewed by the Library Advisory Committee in the matter of choosing books/journals.

Use of current titles/important journals/reading material is ensured by:

- Prominent display of new arrivals
- Open access to the books/materials for staff & students.
- Maintenance of a user register to record and analyse user data, both print and online.
- Display of new publication by reputed book publishers and distributors

	2011-12		2012-13		2013-14		2014-15	
	Number	Total Cost (Rs.)	Number	Total Cost (Rs.)	Number	Total Cost (Rs.)	Number	Total Cost (Rs.)
Text books	604	34,592/-	101	11,050/-	243	54,783/-	153	49,161
Reference Books	38	61,004/-	36	30,404/-	80	1,47,532/-	38	82,692
Otherbooks								
a.)Project Fund	5	10058/-	47	28,795/-	3	1470/-	31	30,460/-
b) DST-FIST	Nil	Nil	Nil	Nil	Nil	Nil	46	21,552/-
c)Management Share	Nil	Nil	Nil	Nil	16	1315/-	66	5,402/-
Journals/ Periodicals/ Dailies	124	75,573/-	116	67,037/-	103	93,346/-	117	28,224/-
<b>Encyclopedia</b>	11	16,700	1	495/-	-	-	-	-
Any other (specify) gift	Nil		17	835/-	389	8,638/-	63	825/-
Xerox Copy						-	-	125

4.2.4  
Provide details on the ICT and other tools deployed to provide maximum access to the Library collection

3 for students)

- *Electronic Resource Management package for e-journals*: Yes
- *Federated searching tools to search articles in multiple databases*: Yes
- *Library Website*: No
- *In-house/remote access to e-publications*: Yes
- *Library automation*: Fully automated.
- *Total number of computers for public access*: 22
- *Total numbers of printers for public access*: 5
- *Internet band width/ speed*: 2mbps
- *Institutional Repository*: All the departments maintain repositories with study materials and model question papers.
- *Content management system for e-learning*: E-learning using content management system is being offered in collaboration with Edunet.
- *Participation in Resource sharing networks/consortia (like Inflibnet)*: Inflibnet facility is provided for staff and students through which 97000 e-books and 6000 e-journals can be accessed.

#### 4.2.5 Provide details on the following items:

- *Average number of walk-ins*: 340 per day
- *Average number of books issued/returned*: 150 per day
- *Ratio of library books to the students enrolled*: 37:1
- *Average number of books added during last three years*: 200
- *Average number of login to OPAC*: 183
- *Average number of login to e-resources*: 29
- *Average number of e-resources downloaded/printed*: 48
- *Number of information literacy trainings organized*: 5 during the last five years
- *Details of “weeding out” of books and other materials*:  
A list of old and obsolete titles and damaged books is prepared by the library team once in three years and the list is circulated in the departments concerned. After getting the approval of the advisory committee, these books are removed from the live register and are kept separately. As per the existing rules, there is no provision for the disposal of these books.

#### 4.2.6 Give details of the specialized services provided by the library

- *Manuscripts* : Nil
- *Reference*: Books in the reference section can be used within the library. They are issued for overnight use to faculty members and PG students.
- *Reprography* : 4 reprographic machines are provided in the library.
- *ILL (Inter Library Loan Service)*: No. However, faculty are members of the libraries of various research centres, and thus have access to their stock.
- *Information Deployment and Notification*: Notifications are put up on the library notice board.
- *Download* : Downloads are permitted and provisions for printing are available
- *Printing*: 5 printers are provided for the use of the students and members of the faculty.
- *Reading list/ Bibliography compilation*- No
- *In-house/remote access to e-resources*: There is provision for free access to e-resources through Inflibnet.

- *User Orientation and awareness:* Users, especially new batches of students, are made aware of the facilities available and rules to be followed in the library and reading room.
- *Assistance in searching databases :* The faculty aid the search of online databases like NCBI,PDB,Genbank,EBSCO and other institutional databases. The library staff provide the necessary assistance to faculty and students.
- *INFLIBNET/IUC facilities:* The College is an authorized user of INFLIBNET through which the students and teachers can access e-resources .

#### 4.2.7 *Enumerate on the support provided by the Library staff to the students and teachers of the college.*

The Library staff provide maximum support to the students and teachers .The library is open on all working days and Saturdays, except second Saturdays and public holidays. Open access facility is provided to help the readers in browsing the stock and selecting the books. New arrivals are exhibited in a separate section. Catalogues from publishers and list of new arrivals in the library are e-mailed to the respective departments.

#### 4.2.8 *What are the special facilities offered by the library to the visually/physically challenged persons? Give details.*

Maximum assistance is offered to visually and physically challenged persons. Visually challenged students are permitted to be escorted by helpers to access books, and the library staff offer personal care. A section of audio books is provided for the use of the visually challenged. A special software is also installed for their use.

#### 4.2.8 *Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)*

Yes, there is provision to collect feedback from the users. A questionnaire is given to the outgoing students every year and their feedback is collected, which is analysed by the advisory committee. Appropriate steps are then taken to improve the services.

### 4.3 *IT Infrastructure*

#### 4.3.1. *Give details on the computing facility available (hardware and software) at the institution.*

- *Number of computers with Configuration (provide actual number*

- *Computer-student ratio* : 1:11
- *Stand alone facility* : Yes
- *LAN facility* – Provided in the office, departments and labs.
- *Wifi facility* : Available in specific zones
- *Licensed software* : Windows, Ubuntu
- *Number of nodes/ computers with Internet facility*: 163

4.3.2 *Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?*

All the departments are provided with computers with internet facility. Computer lab and the multimedia lab are open for access by teachers and students. Laptops are provided in all departments which can be used by teachers and students on and off the campus.

4.3.3 *What are the institutional plans and strategies for deploying and upgrading the IT*

Specification	No. of computers
Processor: Intel(R) Pentium(R) CPU G630 @2.70GHz 2GB RAM 500GB Hard Disk with Windows 7 Professional -32 bit	15
Processor: Intel(R) Pentium(R) CPU G630 @2.70GHz 2GB RAM 500GB Hard Disk UBUNTU	48
Dell Server Intel(R) Xeon(R) Processor E3-1225v 3 3.2 GHz 8M Cache, 4GB(1X4G), 1600 MHz, 1TB 7.2KEntry SATA 3.5 HDD DVD RW Keyboard Mouse 18.5 LED, Scientific Ubuntu	4
Intel core i3- 4th generation 2GB DDR3 RAM with 8GB expandability 18.5 inch Led tft Monitor, 500GB 7200 rpm Scientific Ubuntu	17
Processor Intel 2GB RAM, 500GB Hard disk (upgraded)	54
Processor Intel 1GB RAM, 320GB Hard disk	25
Laptop Computers: Intel 4 GB RAM, 500 GB hard disk	12

*infrastructure and associated facilities?*

The college has maintained its IT infrastructure and facilities in keeping with the current needs and trends. A sizeable portion of the fund requests made to the UGC and other funding agencies is marked for IT upgradation. The utilization of the sanctioned funds also caters to the same need. The college has also availed of the MP's fund for technology upgradation.

4.3.4 *Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years).*



	2012-13	2013-14	2014-15	2015-16
Purchase of New Computers	1,00,000	1,00,000	1,00,000	2,50,000
Upgradation	60,000	30,000	30,000	30,000
Maintenance	30,000	30,000	20,000	30,000
Total	1,90,000	1,60,000	1,50,000	3,10,000

4.3.5 *How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?*

The members of the faculty and students are encouraged to make use of the available ICT resources in their teaching-learning activities. Laptops and projectors are available in all departments and these are used regularly. A well equipped computer lab and multimedia lab further facilitate the use of computer-aided teaching and learning materials. Workshops and Orientation classes are also arranged to introduce faculty to the use of new software and applications.

4.3.6 *Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.*

- The teaching learning process is made learner-centric with the co-option of IT facilities. Students are engaged in independent learning with the use of Internet resources, and encouraged to submit online assignments and make presentations at seminars. Each department has the provisions for ICT enabled teaching and learning.
- As facilitators, the teachers update themselves with the latest in Information Technology and make use of online teaching resources and lecture videos to make the learning process more effective.
- Faculty members facilitate the enrollment of students to online subject related certificate courses offered by National / International educational agencies.

4.3.7 *Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?*

The college is working in association with the IT wing of the University of Calicut to be partners in the National Knowledge Network. LAN facility was installed in the campus under the scheme NME-ICT

#### 4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The institution gives due priority for the maintenance and upkeep of the buildings and premises. The campus is kept spotlessly clean and plastic free. The services of the supporting staff and NSS volunteers are utilized for this purpose. The allocation of amounts in the budget for various items year-wise is:

		2012-13	2013-14	2014-15	2015-16
a.	Building	9,99,255	8,04,934	3210364	4637372
b.	Furniture	1,67,096	6,41,667	1540956	473201
c.	Equipment	4500	4100	5000	4500
d.	Computers	1,80,407	1,47,500	127872	336870
e.	Vehicles	-	-	-	-
f.	Any other	-	-	-	-

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

The institution appoints mechanics, lab attenders, gardeners and contract workers, even in the absence of Govt. sanction for these posts, to maintain the infrastructure well. In addition, Annual Maintenance Contract is signed with dealers and service centres to keep the equipment and infrastructure in good working condition.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

Calibration of equipments and instruments is done once in every six months, with the help of technicians from the firms concerned.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- Sensitive instruments are handled with care, and safely placed in dust-free, water proof areas. UPS facility is given at the necessary points. Diesel power generators are provided to tackle the problem of power failure.
- The Physics laboratory works entirely on stabilised power supply to avoid damages due to power fluctuations.
- Most of the equipments and computers are connected to stabilisers and UPS.

4.4.5 *Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.*

- The college offers the ideal ambience for academic pursuits in a clean, green serene location, the pristine quality of which is left intact in spite of infrastructure development.
- In the absence of sufficient numbers of permanent staff, the management employs contract staff to maintain the infrastructure facilities in the college, and for the smooth functioning of the library.
- Being a partner of the Kerala IT Mission, the college has been able to significantly improve the computer facilities for the students.
- In the absence of Government funds for infrastructure development, the college enlists the support of the stakeholders to improve the existing facilities.

## CRITERION V: STUDENT SUPPORT AND PROGRESSION

### 5.1. *Student Mentoring and Support*

5.1.1. *Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?*

Yes, the college publishes a prospectus-cum-handbook, which is updated and reprinted annually. It provides information regarding

- vision, mission and pedagogy
- admission procedure and eligibility criteria
- course details
- rules and regulations
- various merit scholarships
- calendar on major events and activities – curricular and co-curricular
- the teaching departments and the research centre
- the names and contact details of all the faculty members
- major amenities and welfare provisions – Library, PTA, Student Counselling Centre, Placement Cell, Hostels, Conveyance, etc
- Add-on and Certificate courses

The institution ensures accountability by reviewing and updating the prospectus cum-handbook annually, by circulating it among the stakeholders for feedback; modifications, if necessary, are subsequently incorporated. An annual newsletter, **PROFILE** is also published regularly which includes major achievements of the faculty and students, various research programmes, details of the visits of the luminaries, publications by the faculty, etc. These newsletters are distributed among all the stakeholders for perusal. The most significant feedback is obtained during the Annual Review and Planning Meeting and Open Houses, where the students and the teachers reflect on their experiences with regard to the various systems, programmes and activities of the college.

5.1.2. *Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?*

The college has upheld the tradition of promoting education and creating equal opportunities for the learners, especially the disadvantaged, by way of scholarships and freeships. The college facilitates the speedy disbursement of Govt. scholarships. In addition, the scholarships listed below, which are disbursed during the course of the year, have been instituted by the alumni, teachers and the management.

Year	Type of Scholarship	No. of students availed	Total Amount disbursed
	Alumni Scholarship	29	14000

2011-12	Institutional Scholarship	7	3100
	Endowment Scholarship	24	6950
	<b>Total</b>	60	24050
2012-13	Alumni Scholarship	33	16100
	Institutional Scholarship	9	2450
	Endowment Scholarship	18	5350
	<b>Total</b>	60	23900
2013-14	Alumni Scholarship	30	15300
	Institutional Scholarship	12	10650
	Endowment Scholarship	23	7600
	<b>Total</b>	64	33550
2014-15	Alumni Scholarship	27	13900
	Institutional Scholarship	11	4450
	Endowment Scholarship	20	7150
	<b>Total</b>	58	25500
2011-15	<b>Grand Total</b>	242	107000

5.1.3. *What percentage of students receives financial assistance from state government, central government and other national agencies?*

As the table below indicates, on an average, 39 percent of the students have availed of fee concession or scholarships of some kind, from the State Government during the past five years. A few students have also availed of ‘Indira Gandhi Single Girl Child’ and ‘Central Sector’ scholarships.

Year	Post Matric	KSHEC	Central Sector Scholarships	University Merit Scholarship for PC	Suvarna Jubilee	State Merit Scholarship	Hindi Scholarship	Muslim girls Scholarships	Total number of the students who availed	Percentage	Total Amount disbursed
2011-12	146	6	7	7	28	16	4	26	240	52	710300
2012-13	132	8	2	2	5	4	3	8	164	36	810550
2013-	17	1	1	-	-	2	-	6	186	40	735250

<b>14</b>	<b>6</b>										
<b>2014-15</b>	<b>75</b>	<b>3</b>	<b>4</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>26</b>	<b>115</b>	<b>25</b>	<b>548750</b>

In addition to the details listed above, all the students belonging to SC and ST categories avail of fee concessions.

#### 5.1.4. *What are the specific support services/facilities available for*

##### *Students from SC/ST, OBC and economically weaker sections*

The college strictly follows the reservation policies of the government ensuring 15% of seats for those belonging to scheduled castes and 5% for those belonging to scheduled tribes. Though there is no separate quota for *OBC and* economically weaker sections, the allotment of management quota seats is done giving due considerations to these sections. Other additional facilities made available are as given below:

Government Scholarships – Fisheries Department, Minority Scholarships, SC/ST lump sum Grants.

Institutional Freeships – Instituted by the management , alumni, former and present staff of the college for the economically weak students.

Equal Opportunity Centre , under the aegis of UGC and Kerala Govt. Which is exclusively meant for the development of students belonging to scheduled castes.

The management carefully monitors the processing of applications and disbursement of these financial aids. The socio economic background of each student is identified by the tutor and the necessary assistance is given to the needy and they are motivated to pursue their studies seriously.

##### *Students with physical disabilities*

Special quota for admission is maintained as per university guidelines. The physically challenged students are given support by their fellow classmates and faculty. Audio books and special software are made available in the library for the visually challenged and extra time during examinations is allotted to them in accordance with the rules of the affiliating university. Disabled-friendly classrooms are provided to the needy students.

##### *Overseas students*

Whenever there is a demand, seats are allotted to the overseas students above the sanctioned strength. Steps are taken to include such students in all activities and celebrations to make them feel at home.

##### *Students to participate in various competitions/National and International*

Students are encouraged to participate in competitions and special arrangements are made by the teachers concerned to help them make up classes, both theory and practical, which they miss on account of the competitions. The travel expenses of the needy students are met by the institution. The students are given the following opportunities to hone their talents:

Summer fellowship: Visiting Student fellowship at reputed research institutions.

National level essay competitions

Talent Search Examinations

Short Film making competitions

Research paper/project presentations

Intercolleageate cultural competitions

*Medical assistance to students: health centre, health insurance etc.*

- Annual medical check up
- Tie up with nearby hospitals
- Medical room with first aid and emergency medicines
- Fitness centre
- Availability of a professional Counsellor

*Organizing coaching classes for competitive exams*

The college arranges coaching classes for Administrative Services, PSC, UGC-JRF/NET examinations and Bank tests

*Skill development (spoken English, computer literacy, etc.,)*

- ASAP, a programme of the Govt. of Kerala
- Spoken English classes
- Computer literacy programme
- Kerala State IT Mission programme
- Diploma course in Computer Applications
- Add-on Courses in Water analysis, Sericulture and e-commerce

*Support for 'slow learners'*

- Scholar Support Programme of the Govt of Kerala
- Remedial Coaching
- Special Coaching by Alumni
- Academic Adoption
- Special Assignments for Weak Students

*Exposure of students to other institutions of higher learning/ corporate/business house etc:*

As part of teaching beyond the prescribed syllabus, students are encouraged to visit reputed institutions like NIT, CWRDM, CUSAT, C-MET, STIC, KINFRA industrial park, Indian Institute of Spices Research, IIM, IAA, IUCAA, ISRO, Universities, libraries and archeological museums.

### *Publication of student magazines*

Details of the student magazines published annually during the last four years:

Year	Name of the Magazine	Editor
2011-2012	NOVO	Ms. Nihala Rasique
2012-2013	DHYUTHI	Ms. Shalini Baby
2013-2014	DNA( <i>Dey nammal Aagrahichath</i> )	Ms. Shilpa joy
2014-2015	<i>Vartamaanam Paranjhu Paranjhu Paranjhu</i>	Ms. Gayathri Devi K.G
2015-2016	<i>Ivide Pothuve Inganeya</i>	Ms. Anaswara Ramachandran

Manuscript magazines are prepared annually by all the departments. Students contribute articles

mostly related to their subject of study and areas of interest. Articles on current developments are displayed on the notice board and these too become part of manuscript magazines. The college magazine is published annually. Various clubs functioning on the campus have their own manuscript magazines. NSS and JESUS YOUTH volunteers also bring out their magazines.

#### *5.1.5. Describe the efforts made by the institution to facilitate entrepreneurial skills among the students and the impact of the efforts.*

Students are exposed to various workshops on innovation and entrepreneurship. The Entrepreneurial Development club that functions on the campus under the guidance of the Department of Commerce trains the students in various skills such as umbrella making, bag making, stitching, embroidery, etc. The club conducts exhibitions of the members' products inside and outside the campus. The BBA and Travel and Tourism students undergo training at business institutions and travel agencies to enhance their employability. The students organise sale promos during festivals of the college such as arts fest, sports meet etc. It helps them to learn the art of entrepreneurship. Food Fests are conducted by the students on special occasions on the campus and the profit is contributed to the Students' Welfare Fund. Students are encouraged to present papers on Entrepreneurship, Project Planning, Marketing and Social Entrepreneurship so as to motivate them to start new enterprises and to undertake professional management. The Placement Cell periodically organises Entrepreneurship Development Programmes (EDPs) with assistance from the experts in the field. Training in making umbrellas and ornaments is given by 'POORVA', an organisation of Providonnas and the exhibition of the products is held on the campus. Interactive sessions are organised with the vast network of successful entrepreneurs among the alumni, which prove to be highly inspirational to the students.



5.1.6. *Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.*

True to the vision of the college, the holistic development of the students is achieved by providing them with opportunities to develop their talents and skills. Some of the strategies employed are as following:

- The physical education department has a well equipped fitness center, stadium and ground which provide ample space for physical exercise and practice. Regular coaching is given for basketball, softball etc. The well maintained Sports hostel provides comfortable accommodation to the team members.
- Members of the Debating club, Radio Club and the Quiz Club are given regular training, which help them to improve their performance in various competitions.
- College level cultural competitions are conducted and the winners are given a chance to participate in zonal level competitions of the university (B-Zone). The winners move on to the inter zone competitions.
- Sports Day is conducted with great enthusiasm.
- Important National days and festivals are observed with the participation of the entire college.
- The winners of the college level competitions are given prizes .
- The college appoints two teachers in charge of the union activities. All communications related to the student activities reach them and they depute students to participate in various events. The teachers accompany the students whenever overnight stay is involved.
- Professional trainers and artistes are engaged to develop students' skills in histrionics and fine arts
- *Additional academic support, flexibility in examinations:* The faculty give repeat lessons and extra coaching to the participants of the competitions in order to support them academically. Special supplementary internal examinations are also arranged for them. The university has provision for special examinations for the participants of university level competitions.
- *Special dietary requirements, sports uniform and materials:* To make the sports students physically fit, special diet prescribed by the coach is given free of cost. The institution also provides special uniforms to them. To enhance the quality of their performance, two coaches are appointed by the management
- *Any other*
  - The college serves as a venue for many state level and intercollegiate competitions.
  - A special extension of one year is given to the sports students for the completion of the course, in accordance with the university norms.
  - The college also provides accommodation and coaching for school students who are part of the district and state teams in various events.

5.1.7. *Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, GATE / CAT / GRE / TOEFL / GMAT / Central /State services, Defense, Civil Services, etc.*

Information regarding notifications for these examinations is disseminated through display boards, magazines etc.

- JAM question papers are made available and discussed in classes.
- Model tests by different agencies like APT, TIME, etc are conducted on a regular basis.
- A good stock of books is made available to aid preparation for these exams.
- Students are groomed for interviews and group discussions.

- Internet and online resources are available
- The Debating club and the Management club organize mock interviews and group discussions.
- Coaching was given for Civil Services Examinations in association with Uralungal Co-operative Society to students during the year 2013-14.
- Civil Services coaching is now provided in collaboration with the coaching institute, ENSIGNS.
- Students get opportunities to interact with distinguished personalities such as the District Collectors and the City Police Commissioners because of the proximity of the college to the Collectorate and Commissioner's Camp office. They also interact with toppers of the Civil Services examinations which help to increase their confidence level and set their goals clearly. The details on the number of students qualified in various competitive examinations during the last five years are given below:

UGC-CSIR-NET : 25

SLET : 9

GATE : 5

Central /State services : 300

Defense : 3

5.1.8. *What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)*

- Scholar Support Program and Walk with the Scholar, with the assistance of the Govt. of Kerala
- Personal mentoring by teachers to help students choose their future course of study.
- Informing the students about the availability of research positions in various institutes.
- The add on and vocational courses that improve the employability of the students.
- Academic and personal counseling during value education and tutorial sessions, and whenever the students express the need for counseling.
- Effective tutorial system that enable tutors get to know their wards personally.
- The departmental PTA meetings that establish a warm relationship between parents and teachers.
- The availability of a trained counselor on the campus for individual counseling.
- Mega Job Fairs which expose the students to the job market.

5.1.9. *Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).*

- Yes. The college has a Career Guidance and Placement Cell. It provides students with information about employment opportunities and assists them in finding suitable placements. The college has been a venue for job fairs and qualifying tests for jobs, including the PSC examinations.
- As part of the career orientation programmes, the institution organizes Industrial visits, Internships and Field Work. Career orientation programmes of the institution help the students to identify the right career and more promising career profiles. The college group mail (careerprovidence@gmail.com) is a rich network of feeder e-groups and provides a platform for notification of employment opportunities, upcoming

examinations, active sharing of materials, answer keys, etc. Discussions featuring avenues for employment abroad are also occasionally held.

- Career orientation and pre-placement trainings are organized by the Placement Cell. The Placement Cell facilitates Interface Programmes with the alumni to familiarise the students with the demands of the industry, the agency or even fields of specialization. In addition to the support systems cited above, a notice board is placed in front of the office specifically to display opportunity updates. Periodicals like *Competition Success Review* and *Employment News* containing career guidance information are made available by the cell.
- The institution keeps in touch with reputed multinational companies of the IT and BPO sectors (TCS, GENPACT, HSBC Bank, HDFC Bank, INFOCOM, various Airlines, Prudential Life, GECT, Wipro, IBM, Infosys, Reliance, Google etc.) and corporate houses who conduct campus recruitments for final year students across all streams. The placement details are as follows

Year	2011-12	2012-13	2013-14	2014-15
No. of students Employed	19	14	57	100

5.1.10. Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes. There is a special Grievance Redressal Cell for the students with the Principal as the Chairperson and the Staff Advisor, Fine Arts President and the Student Chairperson as members.

Guidelines of the Grievance Redressal Cell are,

- Complaints shall be sent to the Principal through the Heads of the Department/ Tutor/Class leader.
- The Principal shall conduct a preliminary enquiry and if found necessary, shall place it before the Cell.
- The Cell shall decide the course of action and commence the enquiry at the appointed time and place.
- After inspecting all the oral and documentary evidence, the Cell may allow the parties concerned to argue their case before it.
- The Cell shall record its findings in respect of the complaints.

The tutorial system is effective in minimizing the conflicts among students. Those which are unresolved by the tutor are taken up by the Cell.

5.1.11. What are the institutional provisions for resolving issues pertaining to sexual harassment?

Being a women's college, sexual harassment cases are hardly reported in the campus. However, the college has the necessary provisions to deal with any such issue if reported. The Women's Cell sensitizes the students against such acts, and encourages them to report instances of sexual violence wherever they encounter it.

- Women's Cell members are volunteers in the Vanitha Help Line programme launched by the City Police Commissioner. The Cell takes care of the issues regarding safety of the students who use the public transport service.

- Tutorial System: The close bond formed between the tutor and the wards is helpful in creating awareness regarding gender related problems and open discussions are held on such issues.
- Seminars and talks on related issues are arranged on the campus on a regular basis.

5.1.12. *Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?*

Yes, there is an anti-ragging committee functioning in the college. The college has had no major issues so far. Minor issues are settled by the tutors of the students concerned and the Principal.

5.1.13. *Enumerate the welfare schemes made available to students by the institution.*

Student Welfare Schemes are as indicated below:

- Subsidized canteen facilities are available and free food coupons are provided to the needy students.
- Special diet for sports students.
- Effective mentoring by the tutors
- The College has appointed a trained counselor for individual counseling. If necessary, the counselor holds discussions with the parents and the tutor. Those who require further help are directed to clinical psychologists.
- Clothes bank and Book bank to help the poor students.
- Mother Veronica Scholarship Scheme
- Mother Veronica Housing Scheme
- Scholarships and Students' welfare Fund
- Financial aid to students whenever needed.

5.1.14. *Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?*

Yes, the college has a very loyal and active alumni association PROVIDONNA, with chapters in various cities all over the world. Every year Annual Alumni Meeting is held on August 15th. In addition, all departments have separate associations for the alumnae who meet once a year, plan academic events and provide a forum for exchange of ideas.

(i) The office bearers of Providonna for the year 2015-2016 are:

President: Dr. Mini P Balakrishnan

Secretary: Ms. Aparna Nandakumar

Treasurer: Ms. Shija K

(ii) The activities of the alumnae include:

- a) Instituting Scholarships
- b) Contributing to infrastructure development
- c) Providing Career Guidance and Academic Counseling
- d) Helping in organizing extension activities.
- e) Encouraging entrepreneurial endeavors

(iii) Eminent alumnae

Sl.No.	Name	Field
1	Smt.P.Vatsala	Eminent writer
2	Ms Anjali Menon	International award winning film maker
3	Dr. M. D. Radhika	Well-known writer and former faculty
4	Dr.Sudheera. K.P.	Well-known writer
5	Prof. A K Premajam	Former MP and Mayor of Kozhikode
6	Ms. Sheena Vijayan	Financial Advisor, City Bank Middle East Region
7	Noreen Shanet John	Lt.Colonel, Indian Army
8	Ms. Aparna Balan	International Badminton Player
9	Dr. Gouri. C.	Chief, Lithium-ion Electrode Section, VSSC
10	Pushpa Joseph	Visiting faculty of Theology, University of Hong Kong
11	Adv. Noorbina Rashid	Social Activist – Women’s Rights Activist
12	P.T. Usha	Internationally acclaimed athlete, Arjuna Awardee
13	Ms Aswathy Sreekanth	Internationally acclaimed dancer & Choreographer
14	Saly Joseph	Arjuna Awardee
15	B.M. Suhra	Well-known Writer
16	Dr. Leila Mohan	Reputed Ophthalmologist
17	Vineetha Mokkal	Writer
18	Sajna Shaji	IFS Officer
19	Nikhila Henry	Journalist
20	Dr. Samundra Rana	Doctor, Nepal- did commendable rescue work during the earthquake in Nepal

5.2.1. Providing the percentage of students progressing to higher education employment (for the last four batches ) highlight the trends observed.

Programme	UG to PG (%)	PG to M.Phil.	PG to Ph.D.	Employed	
				Campus	Other
B.Sc. Botany	48	35	20	-	36
B. Sc. Chemistry	61.84	30	15	-	49
B. Sc. Computer Science	45.2	15	10	11.5	28.2
B. Sc. Mathematics	60.8	25	15	-	29.8
B. Sc. Physics	54.8	18	23.75	-	37.2
B. Sc. Zoology	55.8	15	10	-	30
B. A. English	62	25	15	-	35
B. A. Economics	55	12	5	-	20
B. A. History	60	20	20	-	25.5
B. Com	39	20	10	-	44
B.B.A	71	-	-	-	68.4
Travel and Tourism	26.4	-	-	6	48

5.2.2. Provide the pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

The results from 2011-12 to 2014-15 are given below. The results are found to be on par with that of other institutions in the region. The average drop-out rate is 3%.

Level	Programme	2011-12	2012-13	2013-14	2014-15	2015-16
	B.Sc. Botany	96	73	90	90	RESULT AWAITED
	B. Sc. Chemistry	94	94	84	84	
	B. Sc. Computer Science	100	75	52	88	
	B. Sc. Mathematics	84	72	83.8	76.2	
	B. Sc. Physics	91.3	75	83.3	88.9	
	B. Sc. Zoology	68	81	82	94	
	B. A. English	97	83	86	89	

UG	B. A. Economics	89	79	86	79
	B. A. History	90	83	83	88
	B. Com	82	87	93	90
	B.B.A	95	88	80	93
	Travel and Tourism	99	83	70	84
PG	M. Sc. Physics	100	90	72	100
	M. A. English	84	72	100	69
	M. Sc. Computer Science	Programme commenced			60
	M. Sc. Botany	in the year 2012-13			100
	M. Sc. Mathematics	Programme commenced			
	M. Com	in the year 2013-14			

*5.2.3. How does the institution facilitate student progression to higher level of education and/or towards employment?*

The institution facilitates student progression to higher level of education in the following ways:

- Guiding the Research Project of the students.
- Providing information and guidance on admissions to centres of higher learning like Central Universities and EFLU.
- Coaching for the UGC NET/JRF examinations.
- Facilitating applications to national scholarship programmes and summer fellowships
- Providing opportunities to participate in the research paper presentation in national and international seminar/workshops
- Organizing exposure visits to nationally acclaimed centres of higher learning.
- The college has a system of orienting the students towards placements right from the time of induction. Career orientation programmes include interaction with role models and successful alumni placed in reputed organizations across the globe.

Further, the institution facilitates employment of the students in the following manner:

- Career Orientation by the Faculty: Teachers orient the students from the first semester onwards while they select seminar topics, assignments and eventually dissertations
- Concurrent Fieldwork and Community Engagements: Application of theory is achieved through concurrent field work and community services arranged in association with NGOs, industry, Government departments and neighbourhood communities which enable greater networking, hands-on training and enhanced placement prospects.
- Industry/Alumni Interaction Initiative: Interactive sessions are provided with the help of the placement cell by inviting industrialists and corporate companies on a regular basis to help the students sense the pulse of the job market . The college, being in close contact with the alumni, organizes periodic interactions and also encourages external mentoring.

- Interaction with Experts – Opportunities for interaction with experts at national and international levels in the respective fields during seminars and workshops.
- Career Guidance Workshop and Placement Training that covers Aptitude Testing, Group Discussion, Mock Interviews, Career Counselling and CV Preparation, which are officiated by experts and employers.
- Placement Cell: The Placement Cell that functions on the campus guides the students in pursuing higher education and acquiring suitable jobs.
- ASAP: The Additional Skill Acquisition Programme, initiated by the government of Kerala, increases the employability of the students. The college is a Training Partner of the programme
- Soft skill development: The college conducts workshops and training sessions on soft skills on a regular basis.

#### *5.2.4.Enumerate the special support provided to students who are at risk of failure and drop out?*

The special support provided to the students who are at risk of failure and dropouts are the following.

- The close systematic student support by way of mentoring and follow up from the respective departments.
- During PTA meetings teachers counsel the parents who are inclined to discontinue the education of their daughters for domestic reasons, and persuade them to facilitate their continued education.
- The students who need special attention are provided with academic counselling by the faculty concerned.
- The students with considerable learning disabilities are given special attention by involving their parents also in the problem solving mechanism initiated by the teachers and the heads of the departments concerned.
- Student Counselling Centre provides psycho-social support to the students who are referred by the mentors.
- Bridge course is conducted during the beginning of the first semester
- One to one academic adoption is implemented, where the advanced learners motivate and give the necessary help to the weak ones.
- Supplementary examinations are conducted by the teachers for those who fail to take internal examinations on genuine grounds.
- Academically weaker students are assisted through guided library work and assignments
- Teachers facilitate close guided reading for those who do not perform satisfactorily in internal examinations.
- There is provision for Repeat Semester to allow students to continue their studies after Maternity and other medical leave. The same provision is available to sports students.

### **5.3.Student Participation and Activities**

#### *5.3.1.List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.*

The college promotes and encourages the participation of students in extra-curricular activities at the Intra and Inter-University levels and also at the national level. A number of students have won prizes in various activities.



The College also organizes cultural programs to nurture the students' talents at the department/college level.

Students are encouraged to participate in cultural programs and competitions held in other institutions

#### **A. Institutional Level**

- Students day competitions
- Fine Arts Day
- Departmental competitions
- Departmental co-curricular activities
- Celebrations - Onam, Christmas, Mother Veronica day
- NSS day , Biodiversity Programme
- Various intercollegiate competitions
- Observation of days of national and cultural importance.

In addition, the college provides opportunities for students to watch the live performances of acclaimed artistes, and interact with them in collaboration with the SPIC MACAY, Kerala Kalamandalam, etc.

Program calendar for the last four years:

Year	Activity	Date
2011-2012	Release of College Magazine	July 6
	Independence day Celebration	August 12
	Onam Celebrations	September 2
	College Union Elections	September 29
	Union Inauguration	October 13
	Students Day Celebrations	October 17-21
	SPIC MACAY Programme	October 21
	150 <sup>th</sup> anniversary of the arrival of Mother Veronica in India	November 22
	Miss a Meal Day	December 15
	B-Zone Arts festival	December 19-23
	Christmas Celebrations	December 21
	Republic Day Celebrations	January 26
	The Annual Sports Day	February 22
	Fine Arts Day	February 24
Raffle Draw For Housing Project	March 1	

	Inter-zone Arts fest	March 1-5
	International Women's Day	March 8
2012-13	Environment Day Celebrations	June 5
	Release of College Magazine	July 23
	Independence day Celebration	August 14
	Teachers Day	September 5
	Onam Celebrations	September 12
	College Union Elections	October 4
	Union Inauguration	October 11
	Students Day Celebrations	December 12-14
	Christmas Celebrations	December 19
	B-Zone Arts festival	January 8-12
	Republic Day Celebrations	January 26
	Fine Arts Day	January 28
	Inter-zone Arts fest	March 6-10
	International Women's Day	March 8
2013-14	Environment Day Celebrations	June 5
	National Seminar by IQAC	July 24
	Release of College Magazine	August 13
	Independence day Celebration	August 14
	College Union Elections	September 5
	Onam Celebrations	September 12
	Traffic Awareness Programme	September 25
	Union Inauguration	October 7
	Talent Hunt Program	October 16
	Students Day Celebrations	October 25-26
	Musical Night "AAROHI"	December 7
	Christmas Celebrations	December 20
	The Annual Sports Day	January 21

	B-Zone Arts festival	January 28-1 February
	Republic Day Celebrations	January 26
	Inter-zone Arts fest	March 1-5
	International Women's Day	March 8
2014-15	Traffic Awareness Programme	June 17
	Release of College Magazine	July 17
	Independence day Celebration	August 14
	Talent Hunt Program	August 19
	College Union Elections	September 4
	Onam & Teachers day Celebrations	September 5
	Union Inauguration	October 1
	Students Day Celebrations	October 15-21
	Fine Arts Day	October 20
	Christmas Celebrations	December 9
	The Annual Sports Day	January 23
	B-Zone Arts festival	January 28-1 February
	Republic Day Celebrations	January 26
	Inter-zone Arts fest	March 1-5
	International Women's Day	March 8

5.3.2. Furnish the details of major student achievements in co curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National /

Achievements in University Zonal and Inter-zonal Arts Festivals, 2015-16		
Event	Position	Awards
B Zone competition	First Prize- <ul style="list-style-type: none"> <li>• Hindi Elocution</li> <li>• Malayalam Essay</li> <li>• Skit.</li> <li>• Malayalam Drama</li> <li>• Folk Dance - Group</li> </ul> Second Prize- <ul style="list-style-type: none"> <li>• Western Solo</li> <li>• Ottam Thullal,</li> </ul>	<ul style="list-style-type: none"> <li>• Best Actress</li> <li>• Best Women's College</li> <li>• Overall- Third Prize</li> </ul>

	<ul style="list-style-type: none"> <li>• Maargam Kali</li> <li>• Western Music</li> <li>• Eastern Music</li> </ul> <p>Third Prize:-</p> <ul style="list-style-type: none"> <li>• Hindi Short Story</li> <li>• Light Music</li> <li>• Classical Music</li> <li>• Mohiniyattam</li> <li>• Kuchipudi</li> <li>• Folk Dance solo</li> <li>• Mime</li> <li>• Thiruvathirakali</li> <li>• Patriotic Song</li> <li>• Group Song</li> <li>• Folk Song - group.</li> </ul>	
Inter Zone	<p>First Prize-</p> <ul style="list-style-type: none"> <li>• Hindi Elocution</li> <li>• Skit.</li> <li>• Malayalam Drama</li> <li>• Margam Kali</li> <li>• Western Group</li> </ul> <p>Second Prize:-</p> <ul style="list-style-type: none"> <li>• Band Melam</li> </ul> <p>Third Prize:-</p> <ul style="list-style-type: none"> <li>• Folk Dance - Group</li> <li>• Group Song</li> <li>• Western Solo</li> </ul>	Best Women's College

## Achievements in Sports

Year		Inter National	Nationals	State	All India Inter University	Inter Collegiate	Positions
2011-12	Basket Ball	-	3	09	10	12	First
	Hand Ball	01	11	16	06	16	second
	Soft Ball		01	07	02	15	Third
	Table Tennis				01	05	First
	Shooting		01	02	01	02	
	Power Lifting	01	01	01	01	01	first
2012-13	Basket Ball		06	12	10	12	First
	Hand Ball		10	14	08	16	First
	Net Ball				08	14	First
	Soft Ball			08	01	15	Third
	Table Tennis				02	05	First
	Shooting		01	01		02	
	Power Lifting				01	01	First
	Kalaripayattu			01	01	02	First
	Cricket				01	-	
2013-14	Basket Ball		06	14	07	12	First
	Hand Ball		11	14	07	16	First
	Net Ball		04		07	14	First
	Soft Ball			11	04	15	Second
	Table Tennis				01	05	Second
	Shooting		3			02	
	PowerLifting		01		01	01	First
	Kalaripayattu		01			02	First
2014-15	Basket Ball		05	12	07	12	First
	Hand Ball		05	12	10	16	First
	Net Ball		06	10	07	14	First
	Soft Ball			10	02	15	Third
	Table Tennis				01	05	Third
	Shooting		01			02	
	Swimming					01	Third
2015-16	Basket Ball		03	12	05	12	Second
	Hand Ball		06	15	08	16	Second
	Net Ball		05	11	06	14	First
	Soft Ball			10		15	
	Table Tennis				01	05	second
	Shooting		02			02	first
	Taekwondo		-	-	-	05	second

In addition, the various clubs which function on the campus provide the students with innumerable opportunities to excel in various extra-curricular activities. These are:

Department	Club
Botany	Bhoomithrasena, Aerith,(Biodiversity Club), Jalsree Club, Nature Club
Business Administration	Saskia (Consumer Club), Management Club
Chemistry	The Environment Club
Commerce	Entrepreneurship Development Club

Computer Science	IT Club
Economics	Consumer Welfare Club
English	Bookscape (Readers' Club), Crossfire (Debating Club), Grassroots (Environmental Club), Mise-En-Scene (Film Club), Repertoire (Theatre Club), Transvision (Radio Club)
History	Ayur(Health Club), Folklore Club, Darpan (Political Forum), Sanskriti (Cultural Forum), Vaiga (Forum For Legal Awareness)
Mathematics& Statistics	Maths Club
Malayalam& Hindi	Spandanam, Sarjana
Physics	Astro Club, Energy & Environment Club
Political Science	Parliamentary Literacy Club
Psychology	Meraki Club
Travel&Tourism	<i>Fair La Fete</i> Club,Heritage Club,Tourism Club
Zoology	Eco-dudette Club, Red Ribbon Club

*5.3.4.How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?*

The college collects outgoing students' feedback, which is compiled by the Computer Science department and analysed by IQAC. Such feedback from the students provides valuable inputs for improving the quality of teaching and support services like library, hostel, canteen, transport, Internet connectivity, reprography, etc.

The departments use their contacts with the employers to obtain feedback regarding the expertise, proficiency and efficiency of our graduates, their attitude to work, team spirit, aptitude and skill in performing assignments.

The choice of elective papers is made on the basis of the feedback from the students. Suggestions for modifications in the syllabi and curriculum are intimated to the members in the Boards of Studies. This has improved the quality of the performance of our students as well as the teaching process.

*5.3.4.How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.*

- The students bring out the College Magazine every year.
- The departments release manuscript magazines and Newsletters.
- The R&D Cell compiles the presentations on latest trends in different disciplines made by the students

- NSS and Women's Cell volunteers prepare wall magazines and newspapers
- The students are encouraged to publish articles in the peer-reviewed journals and proceedings of national seminars. These details are furnished in 3.4.3.
- Jesus Youth members publish a manuscript magazine yearly.

The following books were published by students during the last three years:

- *Thulamazha Peyyumbol* (2012) Lipi Publications. By Anjumol B.
- *Njan Seetha*(2015) Mathrubhumi Books. By Ananya G

*5.3.5.Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.*

Yes, the college has a very vibrant College Union and Departmental Students' Councils. The Union is elected by the students through the parliamentary mode of election. It is constituted by the Chairperson, Vice Chairperson, General Secretary, Joint Secretary, Fine Arts Secretary, Magazine Editor, Sports Captain and University Union Councillors. It has a significant role in coordinating the key activities of the college on and off the campus: Union meetings, Arts Day, Sports Day, Literary events, Legal Literacy and Gender awareness programmes and publication of the Annual College Magazine. The College Day is organized by the Union and chaired by the Chairperson of the Union.

A small share of the funding for its activities is provided by the University, and the rest, by the college management and raised through fund - raising programs like fine arts festivals and food fests.

The Departmental Students' Council comprises the Association Secretary and the Class representatives. The council organises all the activities of the department.

Each Club functioning in the college has a student secretary to coordinate its activities.

*5.3.6.Give details of various academic and administrative bodies that have student representatives on them.*

At Providence, the entire gamut of activities – Arts, Sports, Literary competitions, observation of special days like World Environment Day, Independence Day, World AIDS Day, World Population Day, Women's Day and the College Day are organized by the students themselves.

The students are involved in the upkeep of the campus and are part of various administrative committees - College Development Committee, Grievance Redressal Cell,, Hostel Committee, Canteen Committee, Bio-diversity Club, Women's Cell, NSS, Library Advisory Committee, Cultural Committee, Discipline Committee, Transport Committee, and Anti-ragging Committee.

The students play a vital role in organizing all the seminars, conferences and workshops on the campus. The students are given opportunities for organizing and managing walk-in-interviews which the college hosts.

*5.3.7.How does the institution network and collaborate with the Alumni and former faculty of the Institution.*

Providonna, the Alumnae Association of the college, is closely linked with the college. The Association has an Annual General Body Meeting and Reunion on the 15<sup>th</sup> of August. The members take active interest in the activities of the college, and contribute towards these in various ways. The fund-raising programmes in connection with the construction of the PG Block of the college elicited good response from the alumnae. Notable alumnae are invited as resource persons for talks and workshops organized by the college.

The loyal and vibrant alumnae residing outside Kozhikode have formed separate chapters of the association in other cities and even abroad. The UAE chapter has been very active, with frequent meetings and get-togethers. The chapter has also made considerable contribution to the Providonna Fund. The Kuwait and Bahrain chapters organized get-togethers during the visit of the Manager and the Principal to those countries.

The alumnae association has been strengthened with the formation of communities on social networking sites. It also helps to develop a database of all the alumnae with information about the nature of the present work, their employers, contact address, phone number, and email id. Such information helps the present students to contact the alumni for suitable placement. They counsel the students on career options and occasionally serve as resource persons in their respective subjects

The database of alumnae also enables the departments to obtain feedback from the alumnae and their employers. Such information provides important inputs for revision, modification and introduction of new activities.

PART- Providence Association of Retired Teachers and PARENT- Providence Association of Retired Non Teaching Staff are vibrant units that retain their links with the college in various ways. They continue as well-wishers of the college. They are specially invited to all major events organized by the college. The College magazine is sent to them annually. The retired staff members contributed handsomely to the funds raised for the PG Block construction. Retired teachers are invited as Resource Persons for the Seminars and Workshops in their areas of expertise. During the preparation for Accreditation and the NAAC Peer Team visit to the college, the retired staff lent much guidance and support, and gave valuable feedback about the college. The NAAC Peer team made a special mention of the cordial relationship between the management and the staff.

*Any other relevant information regarding Student Support and Progression which the college would like to include.*

- The college has some unique mentoring programmes for students, like the one-to one academic adoption of a weak student by an advanced learner
- Feedback is received from the faculty of other colleges about the excellent performance of the graduates of this college in the various PG programmes they offer.
- The college organizes a large number of interclass competitions within the campus, providing opportunities for students to hone their talents.
- The large number of clubs functioning in the college exposes students to various fields and enhance their career prospects.



## CRITERION VI: GOVERNANCE AND LEADERSHIP

### 6.1 Institutional Vision and Leadership

*6.1.1.State the Vision and Mission statement of the institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.*

The vision of the college is the Holistic Development of the Person, to be accomplished through the dissemination of knowledge and the instilling of the Gospel values of Justice, Love and Peace in the young women we educate. The vision envisages the formation of responsible citizens of the country who will contribute to the transformation of the world.

All the activities of the institution fall in line with the value system enshrined in the mission statement : to create a community of staff and students committed to the pursuit of academic and ethical excellence; empower young women to rise up to the challenges of the times, by enlightening them with the best of ancient wisdom and new knowledge with a global outlook; foster an inclusive culture, by providing equal opportunities for education to every section of society; inspire Catholic students to live up to their full Christian commitment and to motivate students to be instruments of positive change in the society

The mission of the college promotes the personal growth of the students by inculcating time-honoured values of life like honesty, integrity and justice. Since the focus is on the holistic development of the individual, the students are given opportunities for experiential learning, and activities with social orientation and are motivated to experience the joys of serving and sharing through various extra curricular activities. Thus the institution facilitates their role as agents of social transformation. Through regular orientation classes, and value education sessions, the significance of the vision and mission are highlighted and creative discussion on the traditions and value orientations of the institution are promoted.

*6.1.2. What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?*

The management of the college – the Apostolic Carmel Congregation – has behind it the legacy of a hundred and fifty years of commitment to the society through its several educational institutions. It has been following a policy of just and democratic delegation of duties for the effective functioning of the institution. Through a participative process, it involves the collective co-operation of the Manager, Principal, Faculty, Administrative and Supporting Staff and Parents. The responsibility of designing and implementing policies is delegated to various committees which function with specific strategies for quality enhancement. Keeping abreast of the times, the management has made the necessary modifications in its policies and plans, even as it remains rooted in its founding ideals.

*6.1.3. What is the involvement of the leadership in ensuring:*

- *The policy statement and action plans for the fulfillment of the stated mission*
- *Formulation of action plans for all opertayions and incorporation of the same into the institutional strategic plan*
- *Interaction with Stakeholders*

- *Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders*
- *Reinforcing the Culture of Excellence*
- *Champion organizational change*

Providence Women's College is an institution run by the Apostolic Carmel Congregation. The Provincial Superior, who is also the Manager of the College, has a residential Deputy, the Local Manager on the campus. The Managing Governing Body (MGB) comprising the Manager, Local Manager, Principal, the Secretary for Education and other nominated members steers the institution management systems. The body meets regularly to plan discuss and evaluate the progress of the institution, based on inputs, survey analysis and feedback from stakeholders and peers.

The Principal is the Head of the Institution who co-ordinates and monitors all the functions – academic and administrative – of the college. The decisions of the MGB are communicated to the staff by the Principal. The Principal meets the staff at the beginning of each academic year and discusses the plans and strategies to be adopted during the course of the year. The faculty members draw up the action plans for the year based on these discussions. The monthly Academic Council meetings identify the specific needs of the institution and plan appropriate measures and programmes.

The smooth functioning of the institution is ensured through a participatory process marked by democratic delegation and decentralization. Faculty are given additional charge in advisory / co-ordinating capacities in the various activities of the college. The Administrative Staff are also made a part of the process of governance.

As the governance of the institution is participatory in nature, a cordial relationship with all the stakeholders is maintained through constant interaction. The leadership meets all the stakeholders such as students, faculty, parents, alumni, local community and representatives of the industry regularly and involves them in planning, implementation and evaluation of the activities of the college. Feedback collected from the stakeholders is thoroughly analyzed, on the basis of which necessary modifications are made in the institutional policies.

The management strives for excellence by attempting to maintain high quality in all the activities of the institution. A variety of measures are undertaken in order to reinforce the culture of excellence:

- Faculty selection purely based on merit
- Encouraging research and publication and facilitating FDP for faculty
- Providing opportunities for knowledge updation for the teaching and non-teaching communities.
- Promoting learner – centric methodology supported by ICT tools
- Continuous assessment and revision of institutional plans and strategies on the basis of feedback
- Introduction of new academic programmes
- Improvement of infrastructure facilities

The progress of the institution is reviewed and the need for organizational changes is identified by bodies such as Academic Council and IQAC during their meetings. Regular meetings of the Principal with the faculty and the administrative staff also help to prioritize the necessary changes and developments. The management always takes interest in introducing changes based on the latest trends and demands in the field of education.

**6.1.4** *What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?*

The policies and plans of the institution which are in tune with the objectives of Higher Education Policy of the nation are regularly monitored and reviewed by the management through various strategies. The main internal co-ordination and monitoring mechanisms of the college are:

- Staff Council
- Academic Council
- IQAC
- Teaching Staff Association
- Non-teaching Staff Association
- PTA
- College Development Society
- College Union
- Ethics Committee
- Anti-ragging Cell
- Examination and Internal Assessment Committee
- Grievance Redressal Cell
- Discipline Committee

Through periodic meetings of the above bodies, constant monitoring and evaluation of the institutional plans and policies are made possible, which lead to their effective implementation. Based on the feedback collected at the various levels mentioned, modifications and alterations are made from time to time.

**6.1.5** *Give details of the academic leadership provided to the faculty by the top management.*

The management gives top priority to the academic progress and quality improvement of the faculty; is sensitive to the need for constant up-gradation of knowledge / skill of the faculty; encourages them to undertake research for Doctoral Degrees and also engage in research projects; facilitates faculty participation and presentation in seminars and workshops; and encourages faculty to conduct them on the campus and supports such initiatives financially in the absence of external funding. Faculty are also encouraged to attend refresher / orientation courses organized by universities. Workshops and training sessions in new skills are arranged for both academic and administrative staff. The management is also supportive of the faculty being part of local, state, national and international professional associations.

**6.1.6** *How does the college groom leadership at various levels?*

The college has always been keen on grooming leadership qualities in staff and students. Some of the strategies that the institution employs for developing leadership qualities are:

Staff

- Staff representatives are members of the IQAC, which holds a key position in planning, executing and monitoring the activities of the college.

- Both Staff Council and Academic Council play a dynamic role in the institutional management and the members of the faculty get an opportunity to improve their leadership qualities.
- As the departments function on a principle of autonomy with regard to the conduct of the courses like add-on course, certificate course, etc, faculty get opportunities to sharpen their leadership skills.
- A good number of the faculty are members of various academic bodies of the affiliating universities and other institutions.
- The activities of the College Union and various clubs are co-ordinated by the respective staff co-ordinators.
- Faculty are members of the executive committees of PTA and CDS

#### Students

- The college union election is conducted in a democratic way and various union activities give opportunities to the students to groom their leadership and organization skills.
- The extracurricular activities under the auspices of various clubs provide the students with platforms to improve their skills in planning and execution. Students hold key positions in these clubs.
- NCC and NSS units of the college instill leadership qualities in the volunteers.
- By organizing inter-collegiate academic, sports and cultural events, the college provides capacity building opportunities to students.
- Seminars and workshops on personality development are organized by the college for the students. They are encouraged to participate in these outside the college too.
- There are student representatives in all the major bodies of the college
- The functioning of student council in all the departments involves students' representatives in the process of decision making

#### **6.1.7** *How does the college delegate authority and provide operational autonomy to the departments/units of the institution and work towards decentralized governance system?*

The college functions on a principle of decentralization, and believes in building leadership at all levels with a clear focus on excellence. The departments chalk out plans regarding curricular, co-curricular and extracurricular activities during the departmental meetings and the minutes of such meetings are presented by the head of the department at the academic council meetings. The departments are given freedom to utilize the funds allocated by the Principal for various purposes such as association activities, remedial courses, certificate courses, etc. They also have the freedom to choose relevant areas for the add-on courses.

The Principal meets the bodies concerned to discuss matters pertaining to curriculum planning, research projects, cultural activities and day-to-day running of the college and the relevant suggestions made during such meetings are taken into consideration while evolving institutional plans and strategies.

#### **6.1.8** *Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.*

The institution has evolved a system of participative management which is executed through democratic delegation of responsibilities and decentralization of authority.

- The college machinery is adequately decentralized with the Principal at the helm of affairs.
- Faculty are given additional responsibilities in advisory / co-ordinating capacities in the various affairs of the college.
- The Heads of the Departments co-ordinate and monitor the functioning of the respective departments, allocating work to the members of the faculty and preparing time tables. The regularity of students' attendance and their academic progress are evaluated by the class tutors.
- Staff Association meetings are conducted regularly to deliberate and evaluate important matters regarding teaching, examinations, general discipline on the campus and various extra curricular activities.
- The IQAC meets periodically to suggest quality enhancing measures and monitor their implementation.
- Club meetings plan and execute activities with the help of staff and student co-ordinators.
- Various committees function on the campus to plan and execute activities related to different aspects of campus life. Some of them are Fine Arts Committee, Admission Committee, Discipline Committee, Magazine Committee, Library Advisory Committee, Ethics Committee, etc.

## **6.2 Strategy Development and Deployment**

### **6.2.1** *Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?*

The college has a formally stated quality policy, which is reflected in the vision and mission of the institution. The Management - the Apostolic Carmel Congregation - is guided by the policy of Truth and Justice and has behind it a strong legacy of commitment to the service of society through education. It is dedicated to the formation of responsible individuals who will be agents of social change.

The Management, Principal and the IQAC orient the staff and students in their journey towards excellence. The policy of the institution is constantly reviewed by them and the necessary updation is done.

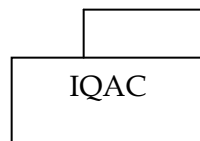
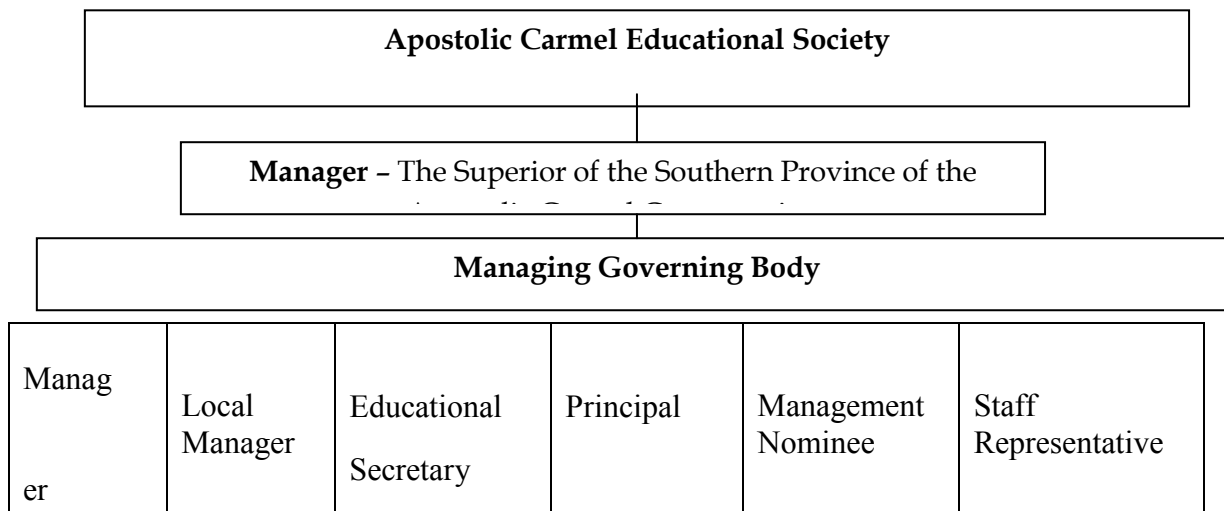
### **6.2.2** *Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.*

Yes. The Institution believes that long-term plans have to be formulated in order to ensure steady development. The different aspects which are considered while drawing long term strategies are:

- a) Teaching and Learning
- b) Research and Consultancy
- c) Community Engagement
- d) Human Resource Management
- e) Industry Interaction

### **6.2.3** *Describe the internal organizational structure and decision making processes*

The organizational structure of the college is indicated in the following chart.



The Apostolic Carmel Educational Society (ACES) is the governing body that guides and monitors the functioning of all the educational institutions run by the congregation. It comprises the Manager and the Executive Council of four Councillors. It advises the MGB on all academic and administrative matters.

The Manager is the vice president of the ACES, and heads the Managing Governing Body, which takes the major decisions regarding all the aspects of the college. It advises the ancillary bodies like the Academic Council, the IQAC, Staff Associations, Student Union, PTA, CDS, and acts on the feedback received from them.

**6.2.4** Give the broad description of the quality improvement strategies of the institution for each of the following

*Teaching Learning*

- Upgrading lecture halls and laboratories
- Faculty improvement, including training programmes and financial assistance
- Upgrading library with latest e-resources and data bases
- Student enrichment, including career guidance and additional skills training

*Research and Development*

- Strengthening the existing research facilities by upgrading laboratories and setting up archives
- Improving internet connectivity on the campus
- Mobilizing research funding for teachers and students
- Collaborative research work with National Institutions and Central Universities.

*Community Engagements*

- Community oriented extension programmes including village adoption schemes and Housing projects.
- Skill-based training for women’s self-employment

- Cultural interaction programmes like cultural programmes of other states in collaboration with SPIC MACAY and folk performances
- Energy and Environment conservation programmes

#### *Human Resource Management*

- Quality enhancement programmes like refresher courses, seminars and workshops
- Employee Welfare Schemes, especially for teachers under self-financing streams.
- Encouragement for acquiring research degrees
- Life Guidance seminars organised for the outgoing batches

#### *Industry Interaction*

- Motivation for entrepreneurial endeavours in the locality
- Invited lectures by industry leaders
- Promotion of faculty consultancy
- Better placement and internship opportunities

#### **6.2.5** *How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc) is available for the top management and the stakeholders, to review the activities of the institution?*

The activities of the institution are reviewed regularly by collecting feedback from all stakeholders and the relevant information is shared with the top management and the stakeholders. Activities are reviewed in the following ways:

- The IQAC undertakes staff and departmental appraisal, and outputs are intimated to the Managing Governing Body.
- Feedback is obtained from students on teachers and the college
- Feedback from staff on the Principal is taken annually
- Feedback is collected from parents during PTA meetings.
- Office maintains updated, detailed profile of teachers.
- The office of the local manager on campus is accessible to the staff, students and stakeholders.

#### **6.2.6** *How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?*

The involvement of the staff is encouraged in various ways, as indicated below:

- A delegatory policy is adopted, which is executed through equitable sharing of responsibilities.
- Faculty are part of the process of institutional governance as co-ordinators of various bodies.
- The administrative and ministerial staff are also involved in the governance.
- The Management and Principal work on a formula of trust and discretion that go hand in hand within the operational space granted to individual workers.
- The management creates and promotes opportunities for the academic updating of the staff.

**6.2.7** *Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions*

The following are the resolutions made by the Management Council in the last year:

- To apply for CPE status.
- To fill in the permanent vacancies in both teaching and non-teaching categories.
- To allow Ms. Shanti Vijayan, Department of English who is doing research, to avail of FDP facility.
- To renovate the college auditorium
- To give approval to the new CDS
- To avail financial assistance under FIST
- To facilitate more seminars and projects on the campus.

These resolutions were successfully implemented.

**6.2.8** *Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?*

Yes. Through an amendment, the University of Calicut has made provision for according the status of autonomy to the affiliated institutions. The College applied for it during the year 2013-14. However, Autonomous status was granted only to colleges that had an accreditation score of 3.5 or above.

**6.2.9** *How does the Institution ensure that grievances/ complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?*

The institution has a grievance redressal cell comprising the Principal, teacher representatives and student representatives. The cell meets whenever there is a need and tries to attend to and resolve the issue through amicable discussion.

The staff have direct access to the Principal and Local Manager and personal grievances, if any, are brought to their notice. The general grievances are brought to their notice by the elected staff representatives or are raised in the staff council meetings where they are redressed.

**6.2.10** *During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?*

Nil

**6.2.11** *Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'Yes', what was the outcome and response of the institution to such an effort?*

The college collects feedback on institutional performance from all the students at



the end of their course of study. Feedback is collected using a questionnaire which includes different aspects like the leadership given by the Principal, curriculum, performance of faculty, co-curricular activities, infrastructure facilities, administration and library. The responses obtained are analysed by the IQAC and Academic Council and changes are introduced accordingly.

Some of the changes introduced on the basis of student feedback are:

- Organising more co-curricular and extra-curricular activities
- Increasing the seating capacity of the auditorium
- Renovating the toilets and canteen

### **6.3 Faculty Empowerment Strategies**

#### **6.3.1** *What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?*

Quality enhancement is one of the top priorities of the management and encouragement is given to both the teaching and non-teaching staff to update their knowledge and skill. The management encourages the faculty to pursue research actively and to publish research articles.

As part of Frontier Lecture Series, an inter-disciplinary initiative launched by the IQAC, discussions are held on topics of contemporary relevance. The lectures delivered during the last five years are,

- Dr.Vijay Menon, International Trainer – ‘Teacher as Mentor’ (2012)
- Dr. Gigy Abraham - ‘Smart Materials’ (2012)
- Dr Mini Balakrishnan - Higg’s Boson (2012)
- Dr Saji Gopinath, Dean, IIMK - Quality Improvement in Teaching (2013)
- Dr Sr Ashmitha - *Sthree Swathwa Parinamam Malayala Nadakathiloode* (2013)
- Dr E Julie - The Role of Oribatid Mites in the Degradation of Highly Recalcitrant Solid Waste on Entering Grounds (2013)
- Dr Sini R - Black Holes (2014)
- Dr Mini Balakrishnan - International Year of Light (2015)
- Mr. Anil Kumar (Trainer in personality development) - Teacher as a Mentor and Counsellor (2014)

#### **6.3.2** *What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?*

The management is keen on motivating and empowering the faculty through constant training and updation. For this purpose, seminars are arranged exclusively for the faculty, every year. Eminent resource persons and experts in the field of education lead the discussion on such occasions. The staff are encouraged to participate in seminars and workshops conducted outside the campus. Faculty are motivated to take up research, consultancy and extension activities. They are also encouraged to be part of various academic programmes offered by the Government like Walk With the Scholar, Scholar Support Programme etc. through which they motivate the students academically.

**6.3.3** *Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.*

The institution follows the guidelines given by the affiliating University and the UGC in the performance appraisal system. The system stresses the importance of multiple activities of the faculty like teaching, research and extension, which are appropriately considered for appraisal. The duly filled in Self Assessment Proforma and supporting documents are collected from faculty to compile the API scores to their credit.

**6.3.4** *What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?*

The IQAC and the Academic Council review the performance appraisal reports and communicate the findings to the MGB. Based on these, the following decisions were taken during the last two years:

- Intensify research activities on the campus
- Diversify the extension activities in the adopted village
- Create more linkages and collaborations with research centres
- Sign more MoUs with industries
- Give better focus to consultancy services offered by faculty

These decisions are communicated to the stakeholders at the meetings of different bodies.

**6.3.5** *What are the welfare schemes available for teaching and non teaching staff? What percentage of staff has availed the benefit of such schemes in the last four years?*

Some of the welfare measures for the staff and faculty are:

- Contract workers were deployed to lighten the burden of existing administrative staff. This decision was taken consequent to the Government ban on appointments. Guest lecturers are appointed for unhampered teaching
- Financial relief offered by management to faculty and staff when salary is delayed
- Financial aid for medical reasons and on other humanitarian grounds to deserving staff
- Interest free loan to non-teaching staff
- Freedom to represent problems to the Management
- Active staff associations to safeguard interests, and foster the spirit of oneness
- Recreational activities like excursions and picnics
- Get-togethers for college celebrations
- Retiring rooms for faculty, non-teaching staff and a separate room for male staff
- Access to library, fitness centre and playground
- Well-run canteen and a stationery store

Out of 98 members of staff, 27.4% have availed of the benefits of various staff welfare schemes. One of the contract workers was a beneficiary of the Mother Veronica Housing Scheme of the year 2015.

**6.3.6** *What are the measures taken by the Institution for attracting and retaining eminent faculty?*

The recruitment of staff is through a transparent selection process and selection is made purely on the basis of merit and the performance of the candidate at the interview. A free and cordial atmosphere conducive to professional growth and working is maintained on the campus. The employee – friendly stance of the management wins the confidence of the faculty and other staff.

#### **6.4 Financial Management and Resource Mobilization**

##### **6.4.1** *What is the institutional mechanism to monitor effective and efficient use of available financial resources?*

The institution has an efficient system to monitor the proper use of available financial resources. Funds are spent taking into consideration the suggestions made by IQAC. The purchase committee efficiently monitors the purchase of equipment. PTA funds are spent after getting the approval of the executive committee of PTA and are regularly audited.

##### **6.4.2** *What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.*

External auditing is done annually in the month of April, according to the Government rules. All Government funds are audited by the Accountant General's office and the office of the Deputy Director of Collegiate Education. There is a system of Internal Auditing also and it is done by the Apostolic Carmel Educational Society. Audit objections, if any, are clarified in a timely manner.

##### **6.4.3** *What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund / corpus available with Institutions, if any.*

The college is a Government Aided institution and thus avails government funding. As an accredited institution recognised under 2(f) and 12(B) of the UGC Act, the college gets UGC funding for academic activities. The deficit is managed utilising the PTA and CDS fund.

The audited income and expenditure statement for the last four years – attached as Enclosure 8

##### **6.4.4** *Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any)*

The college applied to the following schemes and organisations:

- FIST programme of the Department of Science and Technology. The first installment was utilized for setting up labs for Molecular Biology, Radiation Research, Astronomical Data Analysis and Materials Science.
- Status of CPE. This was granted in April 2016. The institution has made detailed plans for the utilization of this fund.
- Other external agencies like ICHR, KSHEC and KSCSTE - to organise international/national seminars and undertake research projects.

## 6.5 Internal Quality Assurance System (IQAS)

### 6.5.1 Internal Quality Assurance Cell (IQAC)

- a. *Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'Yes' what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?*

Yes. An Internal Quality Assurance Cell is actively functioning in the institution and plays a key role in deciding the institutional policy with regard to quality assurance by prescribing quality norms and ensuring adherence to the same.

The IQAC motivates the whole community on the campus in their journey towards excellence and ensures the updating of academic and administrative processes. It serves as a link between the external academic and administrative bodies and the institution so that the institution is able to keep abreast of the times.

- b. *How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?*

The following decisions of the IQAC were approved by the management, and subsequently implemented:

- Organise a National Seminar on Reaccreditation and Quality Improvement. This was organized on 15- 7- 2013 and the speakers were  
Dr Ponmudi Raj, Adviser, NAAC, Bangalore  
  
Dr.Sailas Benjamin, Director, Research Directorate, University of Calicut  
  
Dr.Tharsis Joseph, NAAC Peer Team Member and Principal, DB College, Kuravilangad.
- Reconstitute the IQAC subsequent to retirement vacancy
- Invite new external members subsequent to earlier members taking up assignments outside the state
- To apply for Bachelor of Interior Designing under the Kaushal Scheme

- c. *Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.*

Yes. The external members are Dr. Jose T Puthur (Director, Directorate of Admissions, University of Calicut), Dr. Mohanachandran (Industrialist) Mr.Babu Parambath (Environmental activist) Ms.Sandhya Bhaskar (Chartered Accountant and Alumna). They advise the IQAC on various quality improvement strategies to be implemented. The former members Dr. Saji Gopinath, Dean, IIM Kozhikode and Dr. Sailas Benjamin, Director, Directorate of Research, University of Calicut advised the IQAC on effective feedback mechanism and improving the research activities and facilities of the college. They were the resource persons at two Quality Improvement Seminars organised by the IQAC.

- d. *How do students and alumni contribute to the effective functioning of the IQAC?*

The college has always encouraged student-centric education and so the students play a vital role in the process of quality enhancement. IQAC, being the quality assurance body, is greatly benefitted from the intelligent feedback given by the students. The regular contact

maintained by IQAC with the alumni also helps in obtaining feedback from the industry regarding the various employability skills to be developed among the students.

*e. How does the IQAC communicate and engage staff from different constituents of the institution?*

All constituents of the institution play responsible roles in its smooth functioning. IQAC regularly interacts with staff from all sections and the feedback collected is considered while formulating the action plan of the institution. Formal Communication is done through e-mails and notices circulated by the Principal.

**6.5.2** *Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.*

Yes. The IQAC has developed an integrated framework for quality assurance which is operational through the systematic records maintained by the departments and the administrative committees. These reports are prepared strictly according to the quality improvement procedures and inspected through a three-tier process involving the IQAC, the Principal and the ACES.

**6.5.3** *Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes' give details enumerating its impact.*

Yes. IQAC arranges special sessions on quality assurance during which the staff are exposed to the various quality assurance procedures. The last such programme was arranged in December, 2015, with the following sessions:

- Effective Teaching Strategies - by Mr. Unnikrishnan Balakrishnan (Certified Life Trainer)
- The Art of Publishing Research Articles - by Dr. Santhosh J. Eapen (Senior Scientist, IISR Kozhikode)

Such sessions are rated as motivating and aiding quality improvement, by the faculty.

**6.5.4** *Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?*

Yes. The College undertakes Academic Audit through the half yearly reports collected from the departments and the annual inspections conducted by the IQAC. The outcome is discussed among IQAC members first and then in the Academic Council. On the basis of the discussions held at these two platforms rectifications and improvements are suggested.

In addition, the ACES audits the academic performance once in two years. The recommendations made by the members are reckoned when the departments draw up the action plan for each year.

**6.5.5** *How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?*

The IQAC is aligned to the NAAC. IQAC submits Annual Quality Assurance Report

(AQAR) every year and suggestions are sought from the NAAC on the sustenance and improvement of the quality of the institutional activities.

**6.5.6** *What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?*

The continuous review of the teaching learning process is done by IQAC. This is made possible by the examination of the various records maintained by the departments. Some of the documents maintained by the department are,

1. Profile of the Department
2. Individual Teacher and Student Profile
3. Annual Action Plan of the Department
4. Teachers' Diary
5. Mark Lists of Internal and External Examinations
6. Consolidated Internal Assessment Grade Sheets
7. Student Feedback Report
8. Record of Remedial Teaching
9. Department Stock Register
10. Monthly Attendance Report

**6.5.7** *How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?*

The quality assurance policies are stated along with the statement of the Vision and Mission of the institution. It is made available both to the internal and external stakeholders through the prospectus, college calendar and the college website, and highlighted at the General Assemblies and PTA meetings.

*Any other information regarding Governance Leadership and Management which the college would like to include.*

- The college is managed by the Apostolic Carmel Congregation which has a long standing reputation in the field of education. It has a clearly stated vision which envisages the empowerment of the girl students who will become responsible agents of social change.
- The management devises strategies appropriate to the changing times to meet the challenge of providing education of global standards.
- The financial dealings of the management bear the stamp of transparency and accountability. With the proper and responsible utilizations of Government funds, and the policy of staff selection purely based on merit, the college sets a fair example of an institution which does not make education a purely commercial venture.
- The effective academic monitoring system enthruses the staff and students to bring out their best.

## CRITERION VII: INNOVATIONS AND BEST PRACTICES

### 7.1 Environment Consciousness Programmes

#### 7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

The college gives utmost priority to maintaining the pristine, salubrious environment of the campus and its surroundings, and has devised a viable method of Green Auditing. Any developmental activity undertaken in the campus is ensured as sustainable. Infrastructure development strictly abides by the policy of minimal felling of trees and levelling of the land. Staff and students are attuned to the stipulation that zero damage is caused to the environment in implementing the plan of action each year. The college maintains a biodiversity register which has the details of all the trees in the college. The trees in the campus are identified with their botanical names. The quality of the soil and water is assessed annually. The college has adopted the policy of being an eco-friendly, plastic free campus that promotes rain water harvesting, solid waste management, organic farming and the use of non conventional sources of energy. Environmental concerns are made part and parcel of the curriculum of the college. The Bhoomithrasena club organizes all the environment related activities in the college.

#### 7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- The campus is kept clean and green with various initiatives practised and monitored with utmost commitment. The Bhoomithrasena club of the college plans and organizes eco friendly activities to generate environment consciousness amongst students.
- The World Environment Day is observed on 5<sup>th</sup> June by planting saplings every year. Essay writing and poster making competitions, and exhibitions are organized by many departments on themes related to the preservation and conservation of the environment so as to sensitise the students to the cause of environmental protection.
- Care is taken to reduce the use of plastic, to harvest rain water, to use non conventional sources of energy like solar energy and bio gas.
- Organic farming is encouraged, with the use of vermicompost, azolla, and compost from solid waste.
- Incinerators are installed to deal with the disposal of used sanitary napkins.
- Disposal of plastic waste is done very efficiently by the NSS unit of the college in association with the NGO Niravu, Vengeri. Baskets are provided by the NSS to every department to collect paper waste and plastic waste separately. The waste so collected is disposed very effectively in an eco-friendly manner. The plastic waste is taken to recycling units in Karnataka. Students are encouraged to bring plastic, leather and glass waste from their homes too, which are also disposed in the same manner
- Organic farming is encouraged on the campus so as to reduce the use of pesticides in cultivating vegetables. The vegetables thus produced are sold to the staff and students on the campus. Seeds, saplings and plants in grow bags are distributed by the NSS to the students and staff to inculcate in them the need to produce their own vegetables. The association with Niravu Residents Association helps to procure articles for organic farming.

#### *Energy Conservation*

Students from different disciplines are trained to make LED lamps. A seminar on the topic “How to reduce electricity bill in your homes” was organized in collaboration with Niravu Residents’ Association, Vengeri. Students demonstrated the production of LED bulbs to the staff of Kerala

State Electricity Board, Thamarassery Sub-station. An energy conservation seminar was organized collectively by the NSS Unit, Regional Science Centre, Govt. Women's Polytechnic, Kerala Sasthra Sahithya Parishad and Skill Development Center. The aim of the seminar was to teach energy culture and promote energy conservation methods in youngsters in these institutions. The importance of tapping the endless possibilities of nonconventional energy sources, including solar and wind energy, for our daily energy needs is highlighted.

#### *Use of Renewable Energy*

The college prioritizes renewal of energy sources through various means. The campus is powered with three bio-gas units, uses solar heaters in the hostels, and has installed solar power generators.

#### *Water Harvesting*

The new buildings constructed on the campus have the facility for water harvesting. The need for water harvesting is conveyed to the college neighbourhood by the students through the extension activities. Water analysis is conducted in the adopted village in collaboration with the Water Analytical Mobile Laboratory of the CWRDM, Kozhikode. Based on the result of water analysis, water cards are distributed. Talks and seminars on water quality assessment are organized in the college.

#### *Environmental Consciousness*

Environmental Consciousness is incorporated in every aspect of the college curriculum. Students participate in rallies and conferences in support of related issues. Talks on politically charged environmental issues like the Kasthurirangan and Gadgil reports and Mullaperiyar dam are organized in the college.

#### *Check Dam Construction*

Student volunteers constructed a check dam across the Chethukadavu river in the year 2015. Details are given in the Best Practices section.

#### *Efforts for Carbon neutrality*

The institution creates awareness among the students about the global climatic changes through activities and conferences. The college has a large number of trees and has a very eco-friendly campus. Planting of saplings to add to the existing number of trees combats green house emissions and enhances carbon neutrality.

#### *Plantation*

The college management achieves the target of self sufficiency with the plantation of fruits, vegetables, coconuts, spices and rubber. The college has a large variety of trees and plants that are well taken care of. The biodiversity of the college gives it a serene and calm ambience. The institution has one of the most verdant and beautiful campuses in the state.

#### *Hazardous waste management*

Chemical waste from the laboratories is disposed in a manner least damaging to the environment. Deep manholes and exhaust fans serve the purpose of draining out the neutralized chemical solutions and poisonous fumes. The college is a Zero plastic waste zone. Plastic waste from homes



is collected and sent to recycling units. Flex boards and banners are banned on the campus. Students are encouraged to use banners of paper and cloth during election campaigning and seminars.

### *e-waste management*

E waste is also collected and disposed effectively with absolutely no harm to the environment. The purchase of new electronic products is made on the condition of the dealers taking back the old and unused products.

## **7.2. Innovations**

### *7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college*

The college continues to espouse the vision of its founders to actualize the holistic development of the individual based on ethical, intellectual and academic excellence to become responsible citizens who can constructively participate in the transformation of the society. The curricular, extra-curricular and extension activities of the college have been designed in keeping with the vision of the college – the empowerment and holistic development of women. The novel initiatives of the various student bodies during the last four years were:

- Diamond Jubilee Housing Scheme - three houses were constructed for needy students during the last three years.
- Organ donation - The college union organised an organ donation drive in 2014.
- *Oru pidi ari* project - a scheme of the union to collect food grains from the staff and students, to be distributed among the needy.
- Hair donation drive initiated by the college union of 2014-15: it enthused the students and staff to voluntarily donate their hair to support cancer patients undergoing chemotherapy. The college union of 2015-16 continued the practice.
- Renovation of the house of a cancer patient of the locality by raising an amount of Rs. 96,000
- A course in film making: the students who underwent training directed a documentary on the college and a film titled *3 Deciles of Cinema*.
- Food fests - organized by the union to give the students a platform to raise funds and improve their entrepreneurial acumen.
- An exhibition, *Cancure* -organised in collaboration with Pratheeksha, an NGO, to create awareness against the spread of cancer.
- NSS Volunteers conducted soil health restoration programme, anti drug and anti liquor awareness programmes, and introduced proper waste management systems within the campus and in public places like the District Collectorate, Govt. Mental Hospital, and the adopted village
- NSS Volunteers carried out various extension activities in the Government Mental Hospital, Kozhikode, interacted with the inmates, gave them literacy training, performed cultural programmes, undertook gardening and vegetable cultivation in the premises, and also observed days of cultural significance with appropriate programmes. The students also accompanied the patients on picnics.

- Socio-economic survey was conducted to identify the problems and issues of the congested hamlets of the Dalit community at Santhi Nagar Colony, Nadakkave, Kozhikode. Students along with the faculty in charge cleaned an unused well in the colony to secure pure drinking water for the residents.
- *Gramadarshanam* was a programme organized to give the student volunteers a real picture of the rural India, participating in and observing the functioning of grama sabhas and panchayats. This helped the students to know about democratic decentralization and have better political consciousness
- Training in disaster management and survival tactics was provided to students who participated in the Adventure Camp at Narkhanda, Himachal Pradesh, in October, 2015 and the trekking camp at Darjeeling December, 2015. The camps exposed the participants to a host of challenging activities like rappelling and jumaring, and survival in mountainous terrain.
- In recognition of these initiatives, the NSS unit of the college secured the Kerala State award for the best unit in the years 2015 and 2016. Dr. Sini R. and Dr. Julie E., the NSS coordinators, also received the state as well as university awards for the best coordinators. Student volunteers Shijina and Gayathri won the awards for the best volunteers for these years.
- The Women's Cell put up a big canvas where the students could write their views on gender discrimination in the year 2015.
- The R&D Cell is presently working on a mega project on the topic 'Environment and Society' which will have contributions from students of all the disciplines.
- The Palliative care unit organises Exhibitions and sales of the products made by the patients of the palliative units. Volunteers raised an amount of Rs.50,000 to aid the patients.
- Additional Skills Acquisition Programme was introduced in 2013 in collaboration with the Govt. of Kerala, to improve the employability skills of the students, with classes in Communicative English and IT. The college is a training partner of this scheme, and has been organizing Summer Residential camps of 21 days duration for the last four years.
- The college was a nodal centre of the Kerala State IT Mission, a state government initiative. Faculty of the college attended the training programme organized by the IT Mission. Students of selected departments were given training in the basics of computer and personality development. Training in e-governance was given to the women of the neighbourhood by the students proficient in computer.
- Training in martial arts for self defense and in Yoga for physical and mental health
- Restoration of soil health through zero budget Subash Palekhar natural farming in college campus
- Awareness classes on the conservation of indigenous varieties of flora and fauna and indigenous varieties of seeds

### **7.3 Best Practices**

#### *7.3.1 Two Best Practices of the College*

The college strives for overall excellence in all its activities. To scale the best practices down to two, we would choose the following:

1. Women Empowerment through Education
2. Learning through Service

## **EVALUATIVE REPORTS OF DEPARTMENTS**

1. Name of the department : **Botany**  
 2. Year of Establishment : 1966  
 3. Names of Programmes / Courses offered : B.Sc. Botany, M.Sc. Botany  
 4. Names of Interdisciplinary courses and the Departments / units involved : Open course in Plant tissue culture for other streams  
 5. Annual/ semester/choice based credit system : Choice Based Credit Semester System  
 6. Participation of the department in the courses B.Sc offered by other departments : 1. Offers Complementary Botany Course for Zoology, 2. Open Course for other streams  
 7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil  
 8. Details of courses/programmes discontinued : Nil  
 9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	4	3
Guest faculty	-	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	Experience	No. of Ph.D. Students Enrolled
Deena Meria Jose	M.Sc., B. Ed., M.Phil., Ph.D	Asst. Prof	Phytochemistry, Cytogenetics	9 years	-
Minoo Divakaran	M.Sc., Ph.D	Asst. Prof	Genetics, Biotechnology	9 years	2
Jija Mathew	M.Sc., B. Ed., M.Phil., Ph.D	Asst. Prof	Cell& Molecular Biology	3 years	-
Reshnu Suresh E	M.Sc., B.Ed	Guest lecturer	Pharmacognosy	2 years	-
Amritha AM	M.Sc.,	Guest lecturer	Physiology	1 year	-
Aparna Prasad	M.Sc.,	Guest lecturer	Taxonomy	-	-
Krishnapriya P	M.Sc.,	Guest lecturer	Taxonomy	-	-

11. List of senior visiting faculty: Nil  
 12. Percentage of lectures delivered and practical classes handled by temporary Faculty :57%  
 13. Student -Teacher Ratio (programme wise) :UG-Core 36 : 1, Complementary 36:1; PG-12:1  
 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled  
 Sanctioned :1 Filled : 1  
 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG  
 MPhil + Ph.D. : 2, PhD : 1  
 16. Number of faculty with ongoing projects from a) National b) International funding agencies :Nil  
 17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants

received:

- **DST\_FIST** Total grant received for upgrading laboratory facilities : Rs. 12,43,799.30
- **UGC Funded Minor Research Projects** : Rs. 4,40,000.00

1. Water quality analysis and effect of water pollution on aquatic and wetland flora of Calicut district PI -Dr. Deena Meria Jose (Rs. 1,50,000) (1 ½ years)
2. Pollen variability studies and interspecific hybridization in Vanilla' PI- Dr. Minoo Divakaran (1,70,000) (1 ½ years)
3. Chemical composition and mosquito larvicidal activities *Salvia* in south India' PI- Dr. Jija Mathew (1,20,000) (1 ½ years)

18. Research Centre /facility recognized by the University: Nil

19. Publications:

a) Publication per faculty

- Number of papers published in peer reviewed journals (national /international) by faculty and students : **13**
- Publications in Seminar Proceedings : **27**
- Oral/Poster Presentations : **6**
- Chapter in Books : **11**
- Books Edited : **1** (Proceedings of the National Seminar on Forest Biodiversity Conservation)
- Citations : Dr. Minoo -**292**, Dr. Deena -**156**, Dr. Jija- **34**
  
- h-index : Dr. Minoo – **8**, Dr. Deena - **4**, Dr. Jija - **2**

20. Areas of consultancy and income generated : Nil

21. Faculty as members in

a) National committees

2. Dr. Deena Meria Jose, Member, Board of studies in Botany, St Joseph's College Devagiri (Autonomous)
3. Dr. Minoo Divakaran Member, Selection Board & Purchase committee, Malabar Botanical Garden & Inst for Plant Sciences, Kozhikode

b) International Committees

4. Dr. Minoo Divakaran - Member of Research Committee for Ph.D Thesis of Mr Sayuj (CIRAD, France)

c) Editorial Boards

5. Dr. Minoo Divakaran - Editorial board Member - Advanced Research in Biological Sciences

d) Reviewers of Journals

4. Dr Minoo Divakaran - African J. Biotech, J Biotech and Pharml Res, European J Sci Res.
5. Dr Deena Meria Jose - J Agric & Biodiv. Res.
6. Jija Mathew - Pharm. Bio.

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme : PG – 100%, UG - 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies : PG - 100%, UG - Nil

23. Awards / Recognitions received by faculty and students

- Dr. Minoo Divakaran - Recognized as Research Guide (University of Calicut)
- Recipient of Best research paper award from Confederation of Horticulturists' Society of India)

## 24. List of eminent academicians and scientists / visitors to the department

76. Dr. PM Varrier (Addl. Chief Physician, Arya Vaidya Sala Kottakkal)
77. Dr. Indira Balachandran (Director, CMPR Kottakkal)
78. Dr.. Aswathy G (Amritha School of Nanosciences, Kochi)
79. Dr. U C Abdul Jaleel (PI, OSDD, Chemiinformatics Centre, MCC Kozhikode)
80. Dr. Lisa Sreejith, (Faculty, Dept. of Chemistry, NIT Kozhikode).
81. Mr. Raveendran (District Coordinator, Suchitwa Mission Kozhikode).
82. Mr. Babu, (Project Officer, CREDAI Kozhikode).
83. Dr. Simson Jose (Care Keralam Ltd)
84. Dr. A Achuthan, (Rtd Prof., NIT Kozhikode & Environmental Activist)
85. Mr. Binoy Wiswam (Former Minister for Forests, Govt. of Kerala)
86. Mr. Jayaprasad IFS (Chief Conservator of Forests, Northern Circle, Kannur)
87. Prof. PV. Madhusoodanan (Emeritus Scientist, Malabar Botanical Garden, Kozhikode)
88. Dr. Prakashkumar R (Director, Malabar Botanical Garden, Kozhikode)
89. Dr. N. Sasidharan (Rtd Scientist, Kerala Forest Research Institute, Thrissur)
90. Dr. ARR Menon (Emeritus Scientist, Centre for Environment and Development, TVM)
91. Dr. NS Raju (Dept. of Microbiology, Mysore University)
92. Dr. Lalitha Vijayan (Senior Principal Scientist, SACON, Coimbatore)
93. Dr. Anoop Das (Asst. Professor, MES Mampad College, Nilambur)
94. Dr. Anil Kumar (Director, Community Agrobiodiversity Centre, MSSRF Wayanad)
95. Dr. Sevichen PJ (Assoc. Professor, St. Joseph's College Devagiri, Kozhikode)
96. Mrs. Babitha (Research Scholar, Chemiinformatics Centre, MCC Kozhikode)
97. Mrs. E Suchitra(Asst. Prof., Dept. of Statistics, PWC)
98. Mr Sajikumar (Asst. Conservator of forests, Kerala Forest Department, Kozhikode)
99. Mr. Relief (Asst. Manager, Olympus Microscopes)
100. Dr. Sayuj K (Research Fellow, CIRAD, Reunion, France)
101. Dr. Rebijith KB (Research Associate, IIHR Bangalore)
102. Dr. K M Jayaram (Assoc. Prof., Dept. of Botany, University of Calicut)
103. Prof. P K Gupta (Indian National Science Academy Scientist, Meerut)

## 25. Seminars/ Conferences/Workshops organized & the source of funding

### National level

1. National Seminar on Forest Biodiversity Conservation (10<sup>th</sup> -11<sup>th</sup> Oct 2013) (funded by UGC)

### State level

1. Seminar- Our Environment - 27<sup>th</sup> August 2013) (funded by DoECC, Govt. of Kerala)
2. Seminar on 'Turning pollution to prosperity' on 18<sup>th</sup> December 2012 (funded by DoECC, Govt. of Kerala)

### College level

3. Commemorative Seminar on the 'Birthday of the Father of Genetics –Gregor Mendel' (Every year on 22<sup>nd</sup> July) (source of funding: Nil)
4. Commemorative Seminar on the Death of the Father of White Revolution (Dr.Varghese Kurien) (Sept. 2012) (source of funding: Nil)

## 26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled	Pass percentage				
				2016	2015	2014	2013	2012
B.Sc Botany	2954	36	36		91	90	73	96
M.Sc Botany	112	12	12		100%	-	-	-

## 27. Diversity of Students

Name of the Course	% of Students from the same state	% of students from other States	% of Students from abroad
B.Sc Botany	97	3	0
M.Sc Botany	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc. ? NET : 3, GATE: 2

## 29. Student progression

Student progression	Against % enrolled				
	11-12	12-13	13-14	14-15	15-16
UG to PG	35%	40%	40%	40%	35%
PG to M.Phil.	-	-	-	-	42%
PG to Ph.D.					-
Ph.D. to Post-Doctoral					
Employed • Campus selection • Other than campus recruitment	8	7	5	1	1
Entrepreneurship/Self-employment					

## 30. Details of Infrastructural facilities

### a) Library

Reference books (shifted from central library)	:	1181
Text books (shifted from central library)	:	424
Complimentary copies	:	235

### b) Internet facilities for Staff & Students

Informatics lab with 10 computers with internet connectivity

### c) Class rooms with ICT facility

### d) Laboratories

1. UG Botany Lab
2. Bioinformatics lab
3. Tissue culture lab
4. Water Analysis Lab (Jalasree Harithasala)
5. Plant Physiology & Biochemistry Lab



## 1. Government

Year	SC	ST	OEC	KPCR	OBC	Total
2011-12	13	8	1	8	17	47
2012-13	10	12	1	9	17	50
2013-14	13	11	1	10	17	52
2014-15	18	11	2	16	29	74
2015-16	19	7	3	17	37	84

## 2. College level

### 31. Scholarships instituted by former Number of students receiving financial assistance from college, university, government or other agencies

1. University /and present faculty: 11
2. Scholarships instituted by Alumnae Association : 7

### 32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

#### Special lectures on

1. Conservation of Nature (5<sup>th</sup> June 2012)
2. Bioinformatics (21<sup>th</sup> Nov 2013)
3. Molecular Plant Pathology (8<sup>th</sup> January 2014)
4. Role of Forests in Environmental Sustenance (10<sup>th</sup> July 2014)
5. Bioinformatics Tools (19<sup>th</sup> Jan. 2015)
6. Fungal Genomics (19<sup>th</sup> Jan 2015)

#### Workshops were organized on;

1. Bioinformatics and Drug Designing (31<sup>st</sup> October, 2011)
2. Biological Applications of Statistics (27<sup>th</sup> June 2014)
3. Molecular Biology (10<sup>th</sup> July 2015)

#### Seminars

1. Evergreen Shores of Plant Sciences (Part 1 (Student Oriented): on 29<sup>th</sup> Feb 2012, Part II (Community & Student oriented) on 7<sup>th</sup> March 2012).
2. Turning Pollution to Prosperity (18<sup>th</sup> December 2012)
3. Food Security and Organic Farming (5-6 February 2013)
4. Our Environment (27<sup>th</sup> August 2013)
5. Microscopy- Principles and Techniques (13<sup>th</sup> November 2014)

### 33. Teaching methods adopted to improve student learning

1. Academic linking with other educational and research institutions to provide opportunity for interaction with peer groups
2. Off-campus lectures
3. UG students are divided into small groups and one PG student each is allotted to each group to guide them in all fields

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

1. Popularization & distribution of Azolla
2. Planting Avenue trees along the roadsides
3. Distribution of saplings
4. Training in Paper Bag making
5. Training on Vermicompost making
6. Training on Mushroom cultivation
7. Planting of Establishment of Vegetable Garden in a few houses of Vengeri

8. Medical camp (Ayurveda)
9. Environment protection rally
10. Environmental Awareness Survey among college students
11. Awareness campaign - plastic eradication campaign among newly admitted students
12. Cleaning and restoration of water bodies - cleaned the Kuttiadi Puthiyangadi irrigation canal
13. Water Literacy Programmes
14. Water quality analyses, in collaboration with Residents Associations
15. Care for the aged: visit to old age homes
16. Maintenance of 'Santhisthal' (Repository of Endemic Fruit Tree Species) in 10 cents of land outside the campus, with financial support from Kerala State Biodiversity Board.

### **35. SWOC analysis of the department and Future plans**

#### **STRENGTHS**

1. PG course, Research Guidance for Doctoral studies and career guidance offered to students
2. Good academic performance (100% pass in the first PG batch)
3. Qualified Faculty, enhanced learning measures viz., Off-campus lectures and research projects for students at research institutes,
4. Channeling all activities and outreach programmes to address environmental concerns
5. Subject oriented certificate courses and 3 clubs supported by Govt. Departments / Agencies
6. Good network of Alumnae and parents & inclusive programmes with them.

#### **WEAKNESSES**

1. Lack of Permanent staff

#### **OPPORTUNITIES**

1. Scope for pursuing higher studies with specialization in many disciplines
2. Scope to get placed in many research centers /organizations across the country and outside.
3. Opportunities to interact with eminent scientists
4. Self-employable skills gained with expertise in Tissue culture, Mushroom cultivation etc.

#### **CHALLENGES**

1. Dropout rate (nearly 10%) in UG courses due to marriage and other reasons
2. Tendency to choose professional courses when compared to basic science courses
3. Enrollment of students with low index marks
4. Lack of maintenance fund

#### **Future Plans :**

1. Enrollment of all faculty as guides for doctoral studies
2. To upgrade to a Research Centre
3. To undertake more Research projects

1. Name of the department : **Business Administration**
2. Year of Establishment : 2002
3. Names of Programmes / Courses offered : Bachelor of Business Administration  
(UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
4. Names of Interdisciplinary courses and the Department of Computer Science. departments/units involved : Open course.  
(Hospitality Management)
5. Annual/ semester/choice based credit system : Choice Based credit Semester System
6. Participation of the department in the courses : Open course (Event Management) of the Department of Travel and Tourism.  
handled by : Complementary courses are  
Computer Science Dept. of Mathematics and  
General Informatics (Quantitative Techniques and IT for Business)
7. Courses in collaboration with other universities, : 1. Certificate course on Communication Skills in industries, foreign institutions, etc.  
English in association with "Edunet"  
2. Certificate course on "Graphic Designing" in association with Vismaya College of Media
8. Details of courses/programmes discontinued : Nil  
(if any) with reasons
9. Number of teaching posts

	Sanctioned	Filled
Professors	---	----
Associate Professors	---	----
Asst. Professor on contract	4	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	Number of years of Experience	No. of Ph.D. Students guided
Ms.Shiji.P	M.Com, M.Phil	Asst Prof on contract	Finance	14	----
Ms.Deepa	M.Com, MBA	Asst Prof on contract	Finance	6	-----
Ms.Prasy.V.K	M.Com	Asst Prof on contract	Finance	3	-----

Ms.Sunitha	M.Com, DIP	Asst Prof on contract	Finance	2	-----
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11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary Faculty : Nil
13. Student -Teacher Ratio (programme wise) : 30:1
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : Nil
15. Qualifications of teaching faculty with DSc// Ph.D/ MPhil / PG :  
PG- 2; PG + M Phil - 1;  
PG + MBA - 1
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : Nil
18. Research Centre /facility recognized by the University : Nil
19. Publications:  
a) Publication per faculty : 6  
• Number of papers published in peer reviewed journals (national /international) by faculty and students : 6
20. Areas of consultancy and income generated : Nil
21. Faculty as members in  
a) National committees b) International Committees c) Editorial Boards : Nil
22. Student projects  
a) Percentage of students who have done in-house projects including inter departmental/programme : NIL  
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : 100%
23. Awards / Recognitions received by faculty and students:

#### Awards and Recognitions by students

- Rumana Kassim won the Best Manager in “Inflora”, National level Management Fest held at Rajagiri Business School on 15<sup>th</sup> October 2015. (Cash Prize of Rs.30,000).
  - Asila Misbah won the Best Manager award at Calicut University Management fest “vista 2015” on 20<sup>th</sup> October.(Cash prize Rs.10,000).
  - Asila Misbah won the Best Manager and Ashida and Drishiya’s team won 2<sup>nd</sup> place in marketing game at Madapally Govt College on 11<sup>th</sup> Jan 2016.
  - Ms. Asila Misbah of first year won the 'Best Manager' Title in the management fest held at Devagiri St.Josephs College Calicut on 10<sup>th</sup> January 2015; KMCT Business School and St. Joseph’s Devagiri college (28<sup>th</sup> Feb 2015).
24. List of eminent academicians and scientists / visitors to the department:
- Mr. George Mathews, Guider Academy, Cochin.
  - Mr. Sudeep from Logic School of Mgt, Cochin

- Mr. Vishal Kumar and K. Sampath Kumar, professors , Happy Valley B-School
- Mr.S.Chidambaram, Consulting Actuary at Trivandrum
- Mr.Ashok Manikoth, Retd.Senior Divisional Manager, Goa.
- Mr.Vijayachandran, Secretary, Calicut Insurance Institute.
- Ms.Samiya Nesli, Director, Horizon school
- Ms.Haseena Mansoor, MD, Better Half Beauty Parlour.
- Mr.Jamaludheen, CIGI,Calicut
- Dr. Swathe Dinilsankar (Psychologist, Samatva counseling centre.
- MR.Rishikesh K B, Assistant professor, Christ University
- Mr. B.V.Raghunandan, Bombay Stock Exchange
- Ms.Mary Cheriyan, Faculty Calicut University Study Centre

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National : UGC Sponsored National Seminar On “Redefining Marketing In The Digital Era Of Globalisation” on Sep 3<sup>rd</sup> and 4<sup>th</sup> 2015.

b) International: Nil

26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage				
			*M	*F	2012	2013	2014	2015	2016
BBA	450	45	F		95	88	80	82	-

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2016	100%	---	----
2015	100%	---	---
2014	97%	3%	----
2013	91.3%	2.7%	<b>6%</b>
2012	92.5%	7.5%	---

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? **25%**

29. Student progression

Student progression	Against % enrolled
UG to PG	80%
PG to M.Phil.	--
PG to Ph.D.	---
Ph.D. to Post-Doctoral	--
Employed	80%

Entrepreneurship/Self-employment	25%
----------------------------------	-----

30. Details of Infrastructural facilities

- a) Library : more than 3000 books
- b) Internet facilities for Staff & Students:- Internet facility is available in the dept.
- c) Class rooms with ICT facility: Provision to use OHP and LCD Projector

31. Number of students receiving financial assistance from college, university, government or other agencies :

2

32. Details on student enrichment programmes (special lectures / workshops /seminar)

with external experts:

- Special lectures were organized on;
  - Implementation of Research project
  - Job Readiness
  - Scope of Management studies
  - How to improve your soft skills, employment and job opportunities
  - Diversity of courses
  - How To Prepare For An Interview
- Paper presentation competition on digital marketing.
- Organized a seminar on soft skills development, in association with Career guidance cell and Malabar aviation institute, Calicut ,
- Study tour to IIM-K
- Civil service Orientation class
- Career guidance Cell, PWC, in association with Endusar Inc. conducted Malabar Mega Job Fair, “Niyoga 2015”. More than 50 employer companies participated and 500 were selected.
- A workshop cum seminar was organized on the topic (Body Language And Its Importance”
- Seminar on the topic “Teaching And Learning In The 21st Century Context”.
- Department organized a seminar on” Capital Market in India” sponsored by BSE.
- Quiz completion was conducted on 25<sup>th</sup> September.
- Students registered for MOOC, an online certificate course on disaster management.
- Department management fest ‘Challenge’.
- A model CAT/MAT exam was conducted

33. Teaching methods adopted to improve student learning: ICT teaching , Discussions, Debates etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Free tuition classes to the students of Cholappurath.U.P.School
- Visits to St.Vincent old age home, Mayo Home, Chungam old age home Calicut.etc, to share the spirit of festivals.
- Donated clothes to Home of Love, and school supplies to Cholappurath.U.P.School

- For the upliftment of the students in Cholappurath.U.P. School, by taking spoken English classes for the students from 1<sup>st</sup> to 5<sup>th</sup> Standard.
- Kaithayil Anganwadi in Thalikulathur is a hub of energetic students with lack of opportunities, so the girls in providence went out there to show them the silver linings in life.

35. SWOT analysis of the department and Future plans:

**STRENGTHS:**

- Reputation of college attracts students to the department
- Semi professional course with a wide scope.
- 100% pass percentage , the Department publication, “M-Wiz”, Active clubs viz, Consumer club and Management Club
- Linkage with CMA and IIM-K

**WEAKNESSES:**

- Being self financing course , economically weak students cannot pursue this course
- Student dropouts affects the performance of the department
- Lack of Post graduation course
- Being a self financing department, Funded projects are not available from UGC.

**OPPORTUNITIES:**

- Opportunity to participate in the national level events organized by other colleges.
- Students get a chance to integrate theory with practice through internship during the final year.
- High job opportunities- entry level positions in Corporate offices and factories

**CHALLENGES:**

- Some organizations demand fee for carrying out project for the students.
- Autonomous colleges of neighborhood

**FUTURE PLANS:**

- Development of a Knowledge Database’ for the students to access, to create “e-Alumnae forum”- an interactive platform for the department; create a portal for assignment submission
- To develop placement cell for the department
- Linkage with NIT Calicut
- To provide consultancy services, and evolve as a Management Resource Centre.
- Urban and rural sensitization camps and introspection

1. Name of the department : **Chemistry**
2. Year of Establishment : 1959
3. Names of Programmes / Courses offered : UG
4. Names of Interdisciplinary courses and the chemistry offered for Zoology, Physics, Mathematics and Botany streams : Complementary departments/units involved
5. Annual/ semester/choice based credit system : Choice Based Credit Semester System
6. Participation of the department in the courses offered by other departments : Open courses, Add on courses - DCA
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil
8. Details of courses/programmes discontinued : Nil
9. Number of teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	2	2
Asst. Professors	3	3

10. Faculty profile with name, qualification, designation, specialization,

Name	Qualification	Designation	Specialization	Years of Experience
Dr. Jesamma Joseph (Principal)	Ph.D	Associate Professor	Environmental Chemistry	27
Dr.Gigy Abraham	Ph.D	Associate Professor	Polymer Photochemistry & Branched PMMA	22
Sr.Asha Thomas	M.Sc	Assistant Professor	Applied Chemistry	8
Anjana George	M.Sc	Assistant Professor	-	4
Princi (2014-15)	M.Sc	Guest	-	-
Dr. Deepa K Baby (2015-16)	M.Sc. Ph.D	Guest	Polymer Chemistry	-
Harita (2015-16)	MSc BEd	Guest	-	-

11. List of senior visiting faculty - Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary Faculty : 27 hrs out of total 78 hrs (35%)
13. Student -Teacher Ratio (programme wise): **UG main** : 42: 1, Complementary 52 :1
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : Lab staff - 2
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG: Ph D - 2



16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received during 2011-2016 : Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received during 2011-2016 : Nil
18. Research Centre /facility recognized by the University: NA
19. Publications by the faculty:
- Book : Inorganic Chemistry, B. Lakshmidevi and Joby Thomas, Manjusha Publications, Calicut (first publication in 2012)
  - Number of papers published in peer reviewed journals (national /international) by faculty and students - **3**
  - Books Edited, Co edited, Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor, h-index : Nil
20. Areas of consultancy and income generated : Nil
21. Faculty as members in a) National /International Committees c) Editorial Boards.- Nil
22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/programme : 100%
  - b) Percentage of students placed for projects in organizations : 3%
23. Awards / Recognitions received by faculty and students
- Sarika of 2011-14 batch awarded 3<sup>rd</sup> rank in B.Sc degree exam of Calicut University
  - Deepa K Baby , Assistant Professor on contract and old student of the dept awarded Ph.D in March 2016 from MG University
24. List of eminent academicians and scientists / visitors to the department
- Dr. N B Narasihma Prasad, Director, CWRDM, Calicut
  - Dr. Sabu Thomas Prof.and Head, Dept of Nanotechnology, MG University
  - Dr. Gaouri, Scientist, VSSC, Trivandrum
  - Dr. Joy, Scientist, NCL, Pune
  - Dr. Shafi, Prof. and Head, Dept of Chemistry, Calicut University
  - Dr. Sandhya Rani, Assistant Professor, NIT Calicut
  - Dr. Suni Vasudevan, Assistant Professor, NIT Calicut
  - Dr. Lisa Sreejith, Associate Professor, NIT Calicut
  - Dr. Chembakam B, Principal Scientist, IISR, Calicut
  - Dr. Sheeba Velathur, Director, Core Valleys Herbal Technologies & Alumna of the Dept
  - Dr. Jose John Mallikasery, Prof.& Head, Post Graduate & Research Dept, St. Joseph's College, Calicut
25. Seminars/ Conferences/Workshops organized & the source of funding
- a) National - UGC sponsored: Seminar on Materials Chemistry – 30-31 October 2014
26. Student profile programme/course wise:

Name of the Course/programm	Applications received	Selected	Enrolled		Pass percentage				
			*M	*F	2012	2013	2014	2015	2016
UG	3091	40		40	94	94	84	84	93

27. Diversity of Students

Name of the Course	% of students from		
	Same State	Other States	Abroad
UG	98	2	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? NET : 4

29. Student progression

Student progression	Against % enrolled
UG to PG	80%
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed • Campus selection • Other than campus recruitment	Nil Students enroll for higher studies
Entrepreneurship/Self-employment	Nil

30. Details of Infrastructural facilities

- a) Library : Good library with books for reference
- b) Internet facilities for Staff & Students : Available
- c) Class rooms with ICT facility : Provision for Audio Visual teaching
- d) Laboratories : Main and Subsidiary Labs, Water Analysis Lab.

31. Number of students receiving financial assistance from college, university, government or other agencies :

Batch	Financial assistance/ scholarship						
	E-grant	Post metric	Suvarna Jubilee Merit	DST inspire	CHM Koya	Fisherman	Minority welfare
2012-15	14						
2013-16	18	3	1	1			
2014-17	13				5	1	
2015-18	23						3

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

- Weekly talks on recent trends in Chemistry by students or staff
- Talks by External experts/ scientists- once in 3 months
- National Seminar and Inter-collegiate seminar (annual)

- Workshop on Analytical chemistry for High School students
33. Teaching methods adopted to improve student learning
- Students involved in research projects
  - Allow them to attend seminars/ work shops
  - Use of multimedia tools and library resources
  - Active participation in R&D Cell activities
  - General seminar on recent trends in Chemistry related topics
  - Remedial coaching
  - Certificate course – Water quality assessment
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Anti plastic campaign, making paper bags and distributing regularly to shops – group named as Green Army
  - Collecting clothes regularly and distributing while visiting orphanages and provide to places encountering natural disasters.
  - Collecting a charity fund – Mother Veronica Fund – for financial help to weaker students in and outside the campus
  - Undertaking projects of social relevance and presenting in R&D cell
  - Visiting neighbouring schools for : books/uniform distribution, celebrating Onam / Christmas, taking classes on topics of social relevance, conducting exhibitions, taking free tuition
35. SWOC analysis of the department :
- Strengths**
- Well equipped laboratories and diversified club activities
  - Advanced learning methods; Group study under student mentors, tuition for academically weak.
  - Career orientation talks and seminars to motivate the students.
  - Programs to make students socially conscious and environment friendly
- Weakness**
- Syllabus upgradation inadequate to satisfy the current demands.
- Opportunities**
- High employability and career opportunities..
  - Scope for research in institutions like IISR, CWRDM , NIIST etc.
- Challenges**
- Diversity of new applied courses and resources for students
- FUTURE PLANS:**
- Upgrade department to a PG Department; To strengthen research activities

1. Name of the department : **Commerce**
2. Year of Establishment : 1979
3. Names of Programmes / Courses offered : B.Com (Aided)  
(UG, PG, M.Phil., Ph.D., Integrated : M.Com (Self Financing)  
Masters; Integrated Ph.D., etc.)
4. Names of Interdisciplinary courses and the : Human Resource  
Management :  
departments/ units involved for students from all other  
streams
5. Annual/ semester/choice based credit system : Choice Based Credit  
Semester System  
(programme wise)
6. Participation of the department in the courses : DCA- Computer Science  
Department\  
offered by other departments -tailing- BBA, Data Entry- BBA
7. Courses in collaboration with other universities : Nil  
industries, foreign institutions, etc.
8. Details of courses/programmes discontinued : Nil  
(if any) with reasons
9. Number of teaching posts

	Sanctioned	Filled
Associate Professors	0	0
Asst. Professors	4	1
Guest Faculty	3	3
Temporary Faculty	3	3

10. Faculty profile with name, qualification, designation, specialization

Name	Qualification	Designation	Specialization	Years of Experience	No. of Ph. guidance
Bina Sreedharan (Retired on 31 <sup>st</sup> March 2013)	M.Com	Associate Professor	Finance	33	Nil
Nirmala K.R (Retired on 31 <sup>st</sup> March 2015)	M.Com, M.Phil	Associate Professor	Finance	33	Nil
Dr. D.R Prema (VRS 5 <sup>th</sup> June 2012)	M.Com, Ph.D	Associate Professor	Finance	28	Nil
Annie Antony	M.Com	Asst. Professor	Finance	19	Nil
Ninikala.K	M.Com, M.Phil	Guest Faculty	Finance	3	Nil
Reshma.P	M.Com	Guest Faculty	Finance	2	Nil

Vijitha.P	M.Com	Guest Faculty	Finance	1	Nil
Arunima.P	M.Com	Temporary Faculty	Finance	2	Nil
Rashmi Rajesh	M.Com	Temporary Faculty	Finance	1	Nil

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled : 75%  
(programme wise) by temporary Faculty .
13. Student Teacher Ratio (programme wise) : B.Com – 1:60; M.Com  
(Self Financing) – 1:10
14. Number of academic support staff (technical) and  
administrative staff sanctioned and filled : Nil
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:  
MPhil - 1; PG - 6
16. Number of faculty with ongoing projects from a) National  
b) International funding agencies and grants received : Nil
17. Departmental projects funded by DST - FIST; UGC,  
DBT, ICSSR, etc. and total grants received : Nil
18. Research Centre /facility recognized by the University : Nil
19. Publications : 7. ISSN: 6, Other: 1
- a) Publication per faculty :
- Number of papers published in peer reviewed journals  
(national /international) by faculty and students : Faculty- 7
  - Number of Presentations in Seminars by Faculty : 9
  - **Number of Publications in Proceedings by Faculty** : 3
  - Number of Publications in Proceeding by students : 5
  - Number of Seminar presentations by students : 10
  - Number of publications listed in International Database : Nil
20. Areas of consultancy and income generated : Nil
21. Faculty as members in  
a) National committees b) International Committees c) Editorial Boards :  
Nil
22. Student projects  
a) Percentage of students who have done in-house projects : 100%  
including inter departmental/programme  
b) Percentage of students placed for projects in organizations  
outside the institution i.e.in Research laboratories/Industry/ : Nil  
other agencies
23. Awards / Recognitions received by faculty and students  
• Fathima Zerine - Won Best Manager award in the management fest  
organized by MES college, Mampad
24. List of eminent academicians and scientists / visitors to the department.

- Dr. K.G Jose, Director of Rajagiri Business School, Cochin
- Dr. Alice Mani, Christ University, Bangalore
- Dr. B.Johnson, DCMS, University of Calicut
- Dr. Naveen C Amblee, IIM-K, Calicut
- Prof.J.S Saini, S.N College of Engineering, Kolenchery
- Sri.Rajanarayanan.N, Asst. General Manager & Marketing Head, Federal Bank.
- Prof. Noushad, Farook College, Calicut.
- Shone Bibin, Strategic Relations Manager, ISDC, Bangalore
- Sandhya Bhaskar, Chartered Accountant, Calicut
- Arun S Unnithan, International Skill Development Corporation
- Dr.V.K Vijayakumar, Investment Strategist, Geijith BNP Paribas
- V. Venugopalan.V, Entrepreneurship Development Institute
- B.V Raghunandan, Prof. SVS College, Mangalore
- Simon Zacharia, G.M, DIC Calicut
- Sathya Prasad.K.R, G.M, IAM B-School
- Philip Antony, Rtd. Prof. Devagiri College, Calicut
- Dr.Vinod Kumar.K.P, Asso. Professor, M.E.S College , Mambad
- K.P Rajan, DIC, Calicut
- Snehaj.S, Member of Quiz Kerala, Kozhikode
- Preethi.M, Manager, TBI, NIT, Kozhikode
- Sathyaprasad, G.M, IAM, Calicut
- Fenil.V.S, Regional representative, CIMA
- Ravi Kammath, G.M Vidhyabharathi Group of Institutions
- Anadakumar K.T, DIC, Calicut
- Adv. Dinesh.A, Director of JOBSCORA
- Sudheep Raj T.M, Loius School of Management
- Dr.P Mohan, Professor, University of Calicut
- Mrs.Sheela Kochouseph, M.D of V-Star.
- Abida Rasheed, Women Entrepreneur, Calicut
- A.R Vinod, National Trainer, JCI
- Mr.Kochouseph Chittilappilly, M.D of V-Guard & Wonderla
- A.R Vinod, National Trainer, JCI
- M.V Yohannan, General Manager, DIC, Calicut.
- K.C Shobitha, Councilor, Ward-12, Kozhikode
- Mary Cherian, Lecturer, School of Management studies, Vadakara
- V.Venugopalan, Professor, SNES, Calicut
- K.Chandrasekhar, General Manager,Vidhyabharati group of Institution, Cochin
- Nirmal, Infopark, Cochin
- Abdul Latheef, DIC, Kozhikode

25.Seminars/ Conferences/Workshops organized & the source of funding

a) National Seminar: 3<sup>rd</sup> & 4<sup>th</sup> September, 2015 on the topic ‘Redefining Marketing in the Digital Era of Globalisation’. Funded by: UGC

b) International - Nil

26. Student profile programme/course wise:

. Student profile programme/course wise:

Name of the	Applicat	Selected	Enrolled	Pass percentage
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Course/programme (refer Q no. 4)	Admissions received		*M	*F	2012	2013	2014	2015	2016
B.Com	3375	63	F		82	87	93	90	
M.Com		20	F						

### 27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Com	98%	2%	0
M.Com	100%	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, Defense Services, etc. ? UGC NET : 5 Defense services: 1

### 29. Student progression

Student progression	Against % enrolled
UG to PG	25%
PG to M.Phil.	2%
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed	
Entrepreneurship/Self-employment	10%

### 30. Details of Infrastructural facilities

- a) Library : Yes (Department Books: 280)  
b) Internet facilities for Staff & Students : Yes  
c) Class rooms with ICT facility : Yes  
d) Laboratories : Yes

31. Number of students receiving financial assistance from college, university, government or other agencies:

2014-15		2015-16	
E Grant	others	E Grant	others
52	5	65	6

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

- Participated in exhibitions conducted by DIC, Calicut.
- ED club conducted 3 exhibitions and talks for enhancing the knowledge base of the students.
- Recognitions in national level Management fests conducted by different institutions.
- Conducted seminars

- Introduction to Digital Marketing
  - Digital Marketing Vs. Traditional marketing
  - Online Shopping
  - Digital Marketing Strategies
  - e-Commerce
  - Banking & Digital Marketing
  - Chartered Accountant: Professional exposure
  - IFRS
  - Workshop on Usage of MS-Excel
  - Workshop on Personality Development
33. Teaching methods adopted to improve student learning
- Audio- Visual facility
  - Remedial coaching
  - Group Discussion
  - Topic Quiz
  - Newspaper Quiz
  - Project work
34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Students engage in tuition classes for neighbouring students, Vegetable Cultivation, Umbrella making, ornament making etc. and visits to Children's homes.
35. SWOC analysis of the department and Future plans

**Strength**

- Subject related certificate course: E-Commerce and functioning of clubs: ED club & Tourism club
- Student's participation and presentations in National and International, Business quiz, Motivational talks, MSME fest, Exhibitions etc.
- Good academic performance

**Weakness**

- Lack of Permanent faculties.
- Delay in University exams
- Marriage of students during course time.
- Lack of PhD holders

**Opportunities**

- ED club linked with DIC- Improves Entrepreneurship skill & leadership quality.
- National level Management fest
- Exhibitions outside the campus: helps to improve their entrepreneurial talents.
- High-level career opportunities

**Challenges**

- Diversity of job-oriented contemporary courses

**FUTURE PLAN**

- Industrial linkage and initiation of Start-Up grants for students to become entrepreneurs
- To sustain academic excellence and strive to upgrade into a Research centre.
- Conduct international seminars, motivate the students to publish research papers.
- Initiate coaching classes for UGC-NET and other subject oriented competitive exams.



1. Name of the department : COMPUTER SCIENCE

2. Year of Establishment : 2002

3. Names of Programmes / Courses offered : B.sc Computer Science,  
M.Sc Computer Science

(UG, PG, M.Phil., Ph.D., Integrated

Masters; Integrated Ph.D., etc.)

4. Names of Interdisciplinary courses and the departments/units involved : 1.Web Programming for T.T Dept.  
2. Introduction to  
Computers and Office automation for TT Dept.

5. Annual/ semester/choice based credit system : Choice Based Credit System  
(programme wise)

6. Participation of the department in the courses : Hospitality Management by  
B.B.A Dept,

Offered by other departments Entrepreneur Development (EDP)  
by BBA Dept.

7. Courses in collaboration with other universities,  
Industries, foreign institutions, etc.

- DCA in collaboration with Centre for Continuing Education Department, Thiruvananthapuram
- IT Mission in collaboration with Kerala Govt.IT Mission Department
- Photoshop and flash
- Hardware Troubleshooting and Maintenance in collaboration with Planet Star Solution, Calicut

8. Details of courses/programmes discontinued :

(if any) with reasons

9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors		-
Asst Prof on Contract	8	8

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	Number of Experience	No. of Ph.D. Students guided for the last 4 years
Sunitha Chacko	M.C.A	Asst.Proffessor on Contract	Networks	12	
Jisha K	M.Sc,B.Ed, M.Phil	do	Networks	11	
Manjusha K.K	M.C.A	do	Data Mining	7	
Savitha S V	M.Sc,B.Ed M.Phil	do	Networks	6	
Shilka M.V.	M.C.A	do	Artificial Intelligence	1	
Reshma.o.p	M.C.A	do	Operating System	3	
Shiya.T	MSc Mathematics, MEd	do		12	
Nitha T	MSc Statistics	do		3	

11. List of senior visiting faculty

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary

Faculty : 100%

13. Student -Teacher Ratio (programme wise) : B.Sc-18:1, M.Sc- 4:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Nil

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

M Phil: 2, PG-6

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received NIL

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Nil

18. Research Centre /facility recognized by the University: Nil

19. Publications:

a.) Publication per faculty

- Number of papers published in peer reviewed journals (national /international) by faculty and students : 8
- Conference Papers : 1
- Number of Seminar presentations by Faculty /students : 9

- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 9
- Monographs -Nil ; Chapter in Books :Nil
- Books Edited: Nil
- Citations : 8
- Impact factor : 12.82

20. Areas of consultancy and income generated

Nil

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

Nil

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme 100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies NIL

23. Awards / Recognitions received by faculty and students : NIL

24. List of eminent academicians and scientists / visitors to the department

1. Dr. Lajish L V, Asst.Proffessor, University of Calicut.
2. Dr. Abbas T.P, Asst.Proffesor,, Central University, Kasargod.
3. Ms.Deepa Shaju,H.O.D,Compuer Science Dept.,Govt. College of Engineering,Calicut.
4. Mr.Rajin,faculty,Regional IIT,Calicut
5. Mr. Arun ,faculty,Big leap Solutions ,Calicut.
6. Mr.Sonij T , faculty,Big Leap Softwares,Claict.
7. Mr.Mohammed Safar ,faculty,Babtra Inventory,Calicut.
8. Mr.Mohammed Nasik, faculty.ISTP Technology,Calicut
9. Mr.Muhammed Aslam,faculty ,NIIT Calicut.
10. Mr.Haseen Aslam T P, faculty ,SYS-Sol Technologies,Calicut.
11. Mr.Ashiq V, faculty,Regional Institute Of Technology,Calicut.
12. Mr.Monish, faculty,Babtra Solutions Calict.
13. Ms. Sonia K , faculty,Bodhi Info Solutions,Calicut.
14. Mr.Santhosh V P, faculty,CMC Academy,Calicut.
15. Mr.Abdul Kareem K P,faculty,Planet Star Solutions,Calicut.
16. Mr.Zanin Abdulla S V, faculty, Babtra.Com, Calicut.
17. Mr.Sumesh V, faculty, Blue Gen Solutions,Calicut.

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

b) International

26. Student profile programme/course wise:

Name of the Course/programme(refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc Computer Science	327	32	28		

M.Sc Computer Science		12	12	
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\*M = Male \*F = Female

### 27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
B.Sc Computer Science	97%	3%	0
M.sc Computer Science	92%	8%	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? 30%

### 29. Student progression

Student progression	Against % enrolled
UG to PG	70%
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed • Campus selection • Other than campus recruitment	30% 55%
Entrepreneurship/Self-employment	5%

### 30. Details of Infrastructural facilities

- a) Library Books- 300(Departmental Library)
- b) Internet facilities for Staff & Students 4:1
- c) Class rooms with ICT facility 1
- d) Laboratories 2

31. Number of students receiving financial assistance from college, university, government or other agencies:

32. Details on student enrichment programmes (special lectures / workshops /seminar)

with external experts .

Special Lectures on following topics were arranged

- Fractals
- Research Trends in Image Processing.
- Importance of Artificial Intelligence in Daily Life
- Data Mining Technologies.
- Opportunities in IT

- Current Trends in IT

Workshops on following subjects were organized

- Hardware Maintenance and Assembling
- IP v6
- Software Testing Technologies
- Android Programming

Seminars arranged

- Basics of Android Programming
- Personality Development.
- Software Development Tools.
- Career Guidance
- Software Testing.

Industrial / institutional visits done by our students

- Kinfra Park, Calicut.
- NIT, Calicut.
- Hi-Lite Buisness Park, Calicut.

Competitions Organized by the department every year

- Inter-Collegiate seminars.
- Quiz.
- Debugging.
- Poster making.
- Sudoku
- Treasure Hunt.

33. Teaching methods adopted to improve student learning

- Lectures
- ICT teaching
- Group Discussions
- Debates
- Quiz competitions, debugging competitions

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Free tuition classes for students of Govt.L P School, Vengeri.
- Gave awareness against drug abuse for the students of Govt.L P School, Vengeri.
- Visited Mayo Home (Old age Home)
- Distributed library books to the students of Vengeri School as a part of Onam Celebration.
- Distributed stationary items to the inmates of Balika Sadanam Orphanage run by SevaBharathi, Chevayoor. Inmates were mostly teenagers.
- Arranged meals to the inmates of Home of Love (Old age Home)
- Our students are Volunteers of Pain & Palliative Care Unit.
- Distributed toys to the students of Asha Kiran, an institution for differentially abled children.

35. SWOC analysis of the department and Future plans

Strengths	Well qualified staff with NET and M.Phil. Offers Post graduate course (M.sc Computer Science) Good infrastructure Certificate and Add on course in each year Multitalented Students Intercollegiate IT fest
Weaknesses	Difficult for economically weak students.

	Funded projects are not available from UGC.
Opportunities	New S/w companies are springing up rapidly resulting in more need of Computer professionals. More than 50% of our students are placed in good companies.
Challenges	Many institutes are offering computer courses with good infrastructure facility and placement assistance .We have to compete with them.

### 36. Future Plans:

1. Upgrade the Department as Research Centre.
2. Conduct National/International Conference
3. Develop more User friendly Programs for the College
4. Provide Coaching Classes for NET/GATE.

1. **Name of the Department** : **Economics**
2. Year of Establishment : 1962 with History and Economics and bifurcated in 1976 with B.A Economics.
3. Name of Programmes/Courses Offered : B.A Economics
4. Names of Interdisciplinary Courses and the Departments/Units involved : Open Course International Trade and Finance for Non-Economics
5. Annual/Semester/Choice Based Credit System : Choice Based Credit Semester System
6. Participation of the department in the courses offered by other departments :  
i) Open Course  
ii) Add on Course such as E-Commerce  
iii) Complementary Courses such as History and Indian Constitution
7. Courses in collaboration with other universities industries, foreign institutions, etc. : Nil
8. Details of courses/programmes discontinued (if any) with reasons : Nil
9. Number of teaching posts : 2

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Assistant Professors	2	2
Guest	2	2

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

Name of	Qualificati	Designation	Specialization	Number of
Sr.Sheeba Andrews	M.A, B. Ed	Assistant Professor	Land & Economics	10
K.T Vidya	M A,	Assistant	Development	4
Jyothishmathi.	M.A , B.Ed	Guest Faculty	Economics	2
July P J	M.A , B.Ed	Guest Faculty	Political	2

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled (Programme-wise) by temporary Faculty : 38.5 %
13. Student-Teacher Ratio (Programme-wise) : 60:1
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : NA
15. Qualifications of teaching faculty with DSc/D.Litt./Ph.D/MPhil/PG.: PG-3 ; M.Phil -1
16. Number of faculty with ongoing projects from a) National, : Nil

- b) International funding agencies and grants received
17. Departmental projects funded by DST-FIST; UGC,DBT,ICSSR, :  
Minor Project funded by  
etc.and total grants received  
UGC Grant of Rs. 1.5 Lakh
18. Research Centre/facility recognized by the University : Nil
19. Publications per faculty : **5**
20. Areas of consultancy and income generated : Nil
21. Faculty as members in a) National committees  
b) International Committees c) Editorial Boards : Nil
22. Student projects  
a) Percentage of students who have done in-house projects  
including inter departmental/programme : 100%  
b) Percentage of students placed for projects in organizations outside  
the  
institution i.e.in Research laboratories/Industry/ other agencies :Nil
23. Awards/Recognition received by faculty/ Students
1. Leethu K.T bagged gold medal for shooting during 2013 NCC Camp
  2. Gopika Unni won II prize for the French literacy competition held at IIM-K
  3. Minshina A.P won second prize for the UNO quiz conducted by All India Radio.
24. List of eminent academicians and scientists/visitors to the department
- Sri Binoy Viswam Ex.Minister of Forestry Department, Kerala (2012)
  - Prof.Vasudevan Retired H.OD of Economics, Govt.Victoria College, Palakkadu, Kerala(2013)
  - Dr. Zachariah Public Relations Officer, University of Calicut (2014)
  - Ms.Rita Mary Abraham Retd HOD, Dept. of Economics, Calicut (2014)
  - Dr.N Radhakrishanan HOD, Dept. of Economics ZamorinsGuruyaroooppa College, (2015)
  - Mr.Sharmendran Akkayi NSSO Research Officer , Calicut (2015)
  - Dr.Sanathan Velluva HOD,Dept. of Economics, St. Josephs Devagiri College,Calicut (2016)
25. Seminars / Conferences / Workshops organized : Nil
26. Student profile Programme/course wise:

Name of the Course/Programme	Applications received	Selected	Enrolled		Pass percentage				
			*M	*F	2012	2013	2014	2015	2016
BA Economics	3188	60		60	89	79	86	79	-

27. Diversity of Students

Name of the Course	%of students from the Same state	% of students From other States	% of students from abroad



B.A. Economics	92	8	Nil
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28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NET - 1, SET -1

29. Student progression

Student progression	Against%enrolled
UG to PG	33 %
PG to M.Phil.	20 %
PG to Ph.D.	20 %
Ph.D .to Post-Doctoral	50 %
Employed	16 %
Entrepreneurship/Self-employment	8 %

30. Details of Infrastructural facilities

- A) Library: Department maintains a library with over 300 books
- B) Internet facilities is available for Staff & Students
- D) Classrooms with ICT facility – Provision to use OHP and LCD
- E) Laboratories: sharing Computer lab with the Dept. of Commerce

31. Number of students receiving financial assistance from college, university, government or other agencies

2011-12		2012-13		2013-14		2014-15	
E-Grant	Other	E-Grant	Other	E-Grant	Other	E-Grant	Other

32. Details on student enrichment programmes with external experts

Special lectures on

- Motivation and Career Options in Economics
- Issues Related to Kerala Model Of Development
- European Union and Euro Crisis
- International Economic Institutions, IMF, IBRD and WTO
- Tariff and Non-Tariff Trade Barriers
- Demat Accounting
- Positive Thinking for a Successful Life
- Motivation class to Learn Economics
- How to manage the teenagers of the present times ( for parents)
- GST, issues and Challenges
- Discussion on Budget in association with inauguration of Budget Lecture Series
- A guide to financial Literacy
- Creating positive effects on teens

33. Teaching methods adopted to improve student learning

- ICT teaching
- Online submission of assignments

- Remedial Coaching
- Classroom discussions, Seminars and Debates
- Project report submission based on primary data collection under the guidance of faculty

#### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

1. Neighborhood survey by Consumer Welfare Club to analyze “The role of advertisement in consumption among the female customers”,
2. Workshops on Creating Vermicomposting unit, Useful productive things from waste materials.
3. Encouraging students to participate in N.S.S/ NC.C , Women’s Cell, Blood Donours Forum, Pain and palliative Care and other social service groups
4. Visiting old age homes with students during the occasion of onam and Christmas for charity services
5. Adoption of Chevarambalam L.P School and organizing events for the children with an aim to impart social and environmental values.
6. Conducting guidance classes for the parents of the students of the department.
7. Organizing inter collegiate competitions, Observation of days like World Consumers Day etc .

#### 35. SWOT analysis of the department and Future plans

##### **Strengths**

- Student’s involvement in competitions, project presentation and other intercollegiate events.
- Manuscript magazine
- Remedial classes, Add-on courses, scholarships and career guidance

##### **Weakness**

- Lack of collaborations with external agencies

##### **Opportunities**

- Wide application of academic theories in society
- Student involvement in extension activities to serve society

##### **Threats**

- Lack of public awareness on the scope of the course.

#### **FUTURE PLANS**

- To start P.G course in the Department
- To strengthen the resource of the department by improving relations with the stake holders
- To start consultancy services by the Consumer Welfare Club to address the grievance of customers and guide them.

1. Name of the department : **English**  
 2. Year of Establishment : 1980  
 3. Names of Programmes / Courses offered : 1.UG English  
 Language and Literature  
 (UG, PG, M.Phil., Ph.D., Integrated 2. PG English  
 Language & Literature  
 Masters; Integrated Ph.D., etc.) 3. Add-on Course  
 in Communicative

English

4. Names of Interdisciplinary courses and the : Open Course in  
 Film Studies for students of departments/units involved  
 all departments  
 5. Annual/ semester/choice based credit system : Both UG English  
 Language and Literature  
 programmes follow Choice Based Credit & PG English  
 Language & Literature  
 and Semester System  
 6. Participation of the department in the courses : Students of UG  
 programme (Vth semester)  
 offered by other departments opt for Open  
 Courses offered by other  
 Departments  
 7. Courses in collaboration with other universities, : 1.ASAP in  
 collaboration with Dept. of  
 industries, foreign institutions, etc. Higher  
 Education, Govt. of Kerala  
 8. Details of courses/programmes discontinued (if any) : Nil  
 9. Number of teaching posts

	Sanctioned	Filled
Professors	Nil	
Associate Professors	4	4
Asst. Professors	7	5
Guest Faculty(FDP)		1 (To substitute for one FDP)
Guest Faculty		2

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	Years of Experience
Leeji Francis	M A ; B Ed ; M Phil	Associate Professor	Language & Literature	30

Shyama E	M A	Associate Professor	„	21
Ramani C.E	MA; B Ed ; MPhil	Associate Professor	„	21
Bindu A	M A	Associate Professor	„	20
Shanti Vijayan	M A; B Ed; MPhil	Assistant Professor	„	5
Surya K	M A ; B Ed ; MPhil JRF	Assistant Professor	„	6
Aparna Nandakumar	M A; MPhil NET-JRF	Assistant Professor	„	2
Elizabeth Antony	M A; MPhil; NET	Assistant Professor	„	2
Preethy Mary George	MA ; BEd; MPhil ; NET	Assistant Professor	„	2
Gayathri B.	MA, B.Ed, NET	Guest Faculty in FDP vacancy		1

11. List of senior visiting faculty : N A
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : UG: 3.5% PG: 1.2%
13. Student -Teacher Ratio (programme wise) : **UG:** 11:1 ( Main) 90:1( General); **PG:** 4:1
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. : PG- 2; M.Phil -7
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc., and grants received : Nil
18. Research Centre /facility recognized by the University : Nil
19. Publications :
- a) Publication per faculty
- |                                    |                                  |
|------------------------------------|----------------------------------|
| No. of Publications with ISSN – 13 | No. of Publications with ISBN- 2 |
|------------------------------------|----------------------------------|
- ◆ Number of papers published in peer reviewed journals (national /international) by faculty and students :.....
  - ◆ Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) .....
  - ◆ Monographs; Chapter in Books : Nil
  - ◆ Number of publications by faculty in Proceedings : 2
  - ◆ Books Edited, Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor, h-index : Nil
20. Areas of consultancy and income generated : Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards....

All Faculty members-Editors of Department Journal Diotima's

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme: 100%- All Final Year PG & UG students submit individual projects

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/other agencies

: Nil

23. Awards / Recognitions received by faculty and students

Sl.No	Name of the Student	Award/Recognition
1	Veenadevi Cheriath	Highest CGPA in the final BA Degree Examination Calicut University March 2012
2	Shafna Ali	Won the third prize in the All Kerala Competition for the best PG dissertation conducted by Unity Women's College, Manjeri January 2014
3	Shradha Sudhir and Remya K	Won the third prize in the PPT competition on Educational Apps held in Malabar Christian College February 2014
4	Shalini Baby	Selected as Dubbing Artiste by All India Radio
5	Alicia Jacob and Remya K	Won first prize in the Poetry Competition held at Unity Women's College Manjeri 2015

24. List of eminent academicians and scientists / visitors to the department

- 1) Prof. M.V. Narayanan, University of Calicut (17-09-2015)
- 2) Dr. A.T. Mohanraj, Retd. Prof. of Malayalam, Brennen College, Thalassery (17-09-2015)
- 3) Dr. N. Sajan, S.N. College, Kannur (17-09-2015)
- 4) Dr. E.V. Fathima, KMM Govt. Women's College, Kannur (17-09-2015)
- 5) Dr. Deepa Sreenivas, University of Hyderabad (17-09-2015)
- 6) Dr. Ratheesh Radhakrishnan, IIT Bombay (18-09-2015)
- 7) Dr. C.V. Abraham, St. Joseph's College, Devagiri, Kozhikode (23-06-2015)
- 8) Dr. Sunitha Srinivas, HOD, Govt. College, Mokeri (04-02-2015)
- 9) Dr. Alexander Dunst, University of Potsdam, Germany (02-02-2016)
- 10) Anil Radhakrishnan, filmmaker (05-02-2016)
- 11) Shalini Rajah, Retd. From Sree Kerala Varma College, Thrissur (07-11-2014)
- 12) Dr. Lasitha B.V., S.N. College, Kannur (16-02-2014)
- 13) Dr. A.R.R. Menon, Scientist, Kerala Forest Research Institute (29-08-2013)
- 14) Prof. P.R. Gopalakrishnan, Retd. Principal, Govt. College, Madapally (29-10-2013)
- 15) Prof. P. Bhaskaran Nair, Lincoln University, UK (11-12-2013)
- 16) Anima P., Journalist, The Hindu (10-03-2014)
- 17) Ranjith Sankar, filmmaker (26-09-2012)
- 18) B. Hariharan, Institute of English, University of Kerala (10-12-2012)
- 19) Ms. Revathy, feminist filmmaker (17-02-2012)
- 20) KP Ramanunni, eminent writer (05-03-2012)

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National – a UGC sponsored two-day national seminar on “Image, Text, and Subjectivity: Visual Culture and the Humanities” was conducted on 17-18 September 2015.

b) International – Nil

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled	Pass percentage				
				*F	2012	2013	2014	2015
BA	2015-16: 3617	2015-16: 43	2015-16: 43	97	81	89	92	-
MA		2015-16: 20	2015-16: 20	85	64	100	68.75	-

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
BA	95	5	Nil
MA	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. : 9

29. Student progression

Student progression	Against % enrolled
UG to PG	80%
PG to M.Phil.	20%
PG to Ph.D.	5%
Ph.D to Post-Doctoral	1%
Employed • Campus selection • Other than campus recruitment	40%
Entrepreneurship/Self-employment	10%

30. Details of Infrastructural facilities

a) Library : 1838 books

b) Internet facilities for Staff & Students: Available in the department. The students avail the internet services from the General Library and

Reading Room.

c) Class rooms with ICT facility: The Department has an LCD and a laptop and they are used for PPT's, film and documentary screenings in the classrooms.

d) Laboratories : Nil

31. Number of students receiving financial assistance from college, university, government or other agencies: 214 undergraduate students, 35 Post-graduate students.

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts : Special Lectures on

- Informatics,
- Film making
- Doing Theory
- Kalidasa's *Shakunthalam*
- Career Guidance
- Biodiversity Status of Kerala
- Accent in Spoken English
- Indian Philosophy
- Journalism as a Career Option
- Writing for electronic media

33. Teaching methods adopted to improve student learning

- Interactive lecturing method
- Group and panel discussions on contemporary issues
- Individual presentations
- Film screening based on literary works
- Open book tests and language games
- Club Activities
- Classroom teaching aids
- Quiz programmes
- Dramatising prescribed texts
- Research projects
- Book/Film reviews
- Challenging topics for assignments and seminars

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- The department has adopted the Varadoor LP School, Vengeri, where our students engage tuition classes, perform educational cultural programmes, and contribute books, fans, etc.
- The department has a tie-up with SUMAN Rehabilitation centre for mentally challenged girls. Our students lend a helping hand in their activities, and they sell the products like books, dresses, soaps and pickles made by the inmates, to raise funds for this NGO.
- The Department maintains the Mother Veronica Memorial Library, for the benefit of the women and children of the college neighbourhood.

35. SWOC analysis of the department and Future plans

**Strengths**

- Brand name of the Department, with an impressive roll of honour and University rank holders
- Rapport between staff and students and contact with all the students of the college
- Distinguished alumni placed in eminent positions
- Publication of an Academic Journal
- Additional Skill Acquisition Programme and Add on courses

#### **Weaknesses**

- Vacant teaching posts, lack of space in common classrooms
- Lack of research activities, projects

#### **Opportunities**

- Great demand for admission to the courses offered by the department
- Involvement of faculty in all-round activities in the college and outside
- Large number of clubs to exploit possibilities for extracurricular and co-curricular activities
- Demand of students for employment industry and other career opportunities

#### **Challenges**

- Unwieldy numbers of students in Common classes
- Frequent changes in the timetable during the course of a single year
- Increase in the number of institutions offering B.A & M.A English courses
- Upcoming courses on new allied subjects, like Functional English..is it ok???
- Diminishing student motivation, and familial pressures leading to drop-out rates
- Heavy syllabus load resulting in insufficient time for extra curricular activities

#### **FUTURE PLANS**

- Evolve as a centre of excellence in English language ???
- Upgrade the Department as a research centre after the Faculty obtain their Doctoral degrees
- Publish more articles and conduct more seminars



1. Name of the department : **History**  
 2. Year of Establishment : 1952  
 3. Names of Programmes / Courses offered : UG-History  
 4. Names of Interdisciplinary courses and the (Open course offered to the Departments / units involved students of other departments in the college) : Historical Tourism  
 5. Annual/ semester/choice based credit system (Semester System) : Choice Based Credit Semester System)  
 6. Participation of the department in the courses :  
 1. Open course –Historical Tourism (for the offered by other departments students of other departments)  
 2. Complimentary courses - Social & Cultural History of Britain for B.A. English & Modern Indian History for B.A. Economics  
 7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil  
 8. Details of courses/programmes discontinued (if any) with reasons : Human Rights- (less no. of takers)  
 9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors		
Asst. Professors	3	3
Guest	-	1

10. Faculty profile with name, qualification, designation, specialization, (D.Litt. /Ph.D. / M. Phil.)

Name	Qualification	Designation	Specialization	Number of yrs Experience
Dr. Priyadarsini P	M.A., Ph D	Asst Prof	Modern History	10
Dr. Susmitha Ramakrishnan	M.A.,B Ed, Ph D	„	Ancient History	10
Dr. Laina P.	M.A,Ph. D	„	Modern History	8
Smt. Lini E	M.A (Hist & Pol Sc)	Asst. Professor on Contract	Political Science, Women’s Studies	12

11. List of senior visiting faculty : Nil  
 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary Faculty : 8% + Add-on course (4 Hrs)  
 13. Student -Teacher Ratio (programme wise) : Core -60; Complimentary - 100:1  
 14. Number of academic support staff and administrative staff; sanctioned and filled : NA  
 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG: Ph D -3

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received  
 a. Laina P (UGC Minor project : The Trajectories of Dalit Uprisings in Post Independent India Rs 60,000 )
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received
- UGC minor project- Migrant Labour Influx to Kozhikode (Dr. Priyadarshini, Rs 1,35,000)
  - KCHR Project - Manual Scavenging in Kozhikode with Special Reference to the Night Soil Carriers of Kozhikode (Scheme for post doctoral thesis)- (Dr. Priyadarshini –Rs 50,000)
- Total grants received : Rs. 1, 85, 000
18. Research Centre /facility recognized by the University: Nil
19. Publications : 8
- a) Publication per faculty : 8  
 Number of papers published in peer reviewed journals (national /international) by faculty and students : 8
- Books Edited :Co edited by Dr. Priyadarshini, Dr, Susmitha Ramakrishnan & Dr, Laina P – ‘An Acorn That Was Quickened by Grace’ authored by Sr Carmilla
  - Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor, h-index : Nil
20. Areas of consultancy and income generated : Nil
21. Faculty as members in
- a) National committees b) International Committees c) Editorial Boards....
- |                       |   |
|-----------------------|---|
| 1. Dr. Laina P        | Indian History Congress, Kerala History Conference  |
| 2. Dr. Priyadarsini P | Kerala Council of Historical Research, Kerala History Conference, South Indian History Conference |
| 3. Dr. Susmitha R     | Kerala History Conference, South Indian History Conference  |
22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental / programme : 100%
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : Students do short term course (internship programmes in private agencies, eg Tally, Computer etc.)
23. Awards / Recognitions received by faculty and students
- Namratha Hangel received the University topper award of the University of Calicut (2013)
24. List of eminent academicians and scientists / visitors to the department
- Mr. Sajan Thomas, Doctoral Scholar, Dept. of Social Anthropology, University of Bergen, Norway.
  - Mr. Mujeebu Rehman, Asst. Prof., Dept. of History, University of Calicut.

- Dr. Swarna Kumari, Principal, J.D.T. Islam Arts and Science College, Calicut
- Dr. A.K. Nambiar, Director, Folklore Academy, Kannur.
- Dr. Burton Cletus, Asst Professor , Department of History, University of Calicut
- Dr. Kumaran Vayaleri, Assoc. Prof., Sree Sankara Sanskrit University, Kalady.
- Mr. A.M Shinas, Asst. Prof., Dept. of History. Govt Arts and Science College, Calicut
- Dr Abdul Razak, Asso. Prof. PSMO College , Manjeri
- Dr. Vincent P.J, Assistant Professor of Govt. Arts & Science College, Calicut
- Dr. Susan Thomas, Asso. Professor, Dept of History, Sree Narayana University of Sanskrit
- Mr. Sreejith P, Department of History, Govt. Arts & Science College, Calicut
- Mrs. Sheela E.K, Public Diplomacy District Officer, State Department, Washington DC.
- Mrs. Sruthi Hebbar, Chinmaya Mission
- Dr.Priyadarshan Lal, former Professor, Dept of Malayalam, Govt Arts & Science College,
- Dr. Liza Sreejith, Associate Professor , NIT-K, Calicut
- Dr Pradeep. K, HoD of Political Science , Govt. Arts & Science College, Calicut.
- Dr. Vijayalakshmi, Rtd. Head Dept of History, NSS College, Manjeri
- Mr. Tomy Plakkatil a renowned practitioner of Ayurveda
- Sri. Vasisht, Professor of History, Malabar Christian College
- Dr.K.V Thomas, Rtd. Professor Malabar Christian College, Calicut.
- Sri. Sreejith, Asst **Professor of Malayalam**
- Adv. Athira, Social activist organized by Darpan, The Political Forum
- Dr. Depth Vacant, Practitioner, Kottakal Arya Vaidya Sala
- Dr. Shinoy Jesinth, Asst. Prof. Malabar Christian College
- Dr. Savitha K., Asso. Prof. Arts & Science College, Kozhikode
- Prof. A. Somarajan, Govt. Arts and Science College, Kozhikode
- Adv. Noorbina Rasheed, Kerala Women's Commission, Trivandrum
- Mrs. Malathi Raveendran, Retd. Teacher Govt. High school, Kakad
- Mr.Prasad Kaithakal, Member, Kerala Shasthra Sahithya Parishad

25.Seminars/ Conferences/Workshops organized & the source of funding

- a) National: Nil    b) International -1

26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage			
			*M	*F	2011-12	2012-13	2013-14	2014-15
B.A History	1983	60	F		85	90	86	88

27.Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
UG (Hist)	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? NET : 2; SLET : 1

29. Student progression

Student progression	Against % enrolled
UG to PG	62%
PG to M.Phil.	12%
PG to Ph.D.	5%
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	
• Other than campus recruitment	42%
Entrepreneurship/Self-employment	8%

30. Details of Infrastructural facilities

a) Library-More than 2000 books

b) Internet facilities for Staff & Students : 2 computers & printer with internet facility

c) Class rooms with ICT facility - : Nil

31. Number of students receiving financial assistance from college, university, government or other agencies –

2011-12			2012-13			2013-14			2014-15			2015-16		
I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
yr	yr	yr	yr	yr	yr	yr	yr	yr	yr	yr	yr	yr	yr	yr
46	43	40	45	45	45	42	41	43	45	43	39	52	43	43

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts –

- Talks on various topics like Kerala Model Development, Transition from Feudal to Colonial Economy, Matrilineal system in Kerala, Folklore and Kerala, Folklore and performing Arts, Research Methodology, Local history and the Unexplored areas, writer Thakazhi Shivasankara Pillai, Freedom fighter, Vakkom Abdul Khader and other luminaries, Kundara Proclamation of Veluthampi Dalawa, Between Colonial Modernity and traditional Social Milieu ; Muslims and Modern Education in Malabar, Transforming Education in Colonial Malabar; the Role of Christian Missionaries, Career Options after History, Transforming Indians to Transform India, Career Guidance and Research in History, Swami Vivekananda, India's First Global Citizen. Plastic Waste Management. Nehru and his Ideologies and Political Vision for India, Maulana Abdul Kalam Azad and his Reforms in education, Good Health Habits and Use of Home Remedies, Kozhikodum Footballum, Reading, a Habit and Passion, Footbalum Malyala Sahityavum, Ayurvedam Dinacharyayil, Local History and the use of Primary data in Research, Vulnerable Population during

Emergencies, Emergency a Grinding Halt to Indian Democracy, The Impact of the Indo-Pak war on India's Relationship with Pakistan, Women and Politics, Law and Women's rights, O.N.V.Kurup in our memories, Diet and Good Health, Superstitions versus Rationalism' etc.'

- One day seminars by the Folklore Club in association with Kerala Folklore Academy, 'Pazhassi Raja and Growth of Nationalism', in association with Pazhassi Trust..
  - Quizzica, a quiz program for women, which had a participation of women from Calicut
  - Exhibitions of historical importance like - Books on football and the History of FIFA, Original archival documents by The Information And Public Relations Department, Govt . of Kerala; Posters on Nehru's Role In Freedom Struggle' etc.
  - Documentary Film Fest by the Information & Public Relations Department, Govt. of Kerala
  - Kalarippayattu demonstration by the Students of 'Yodha Kalari' Payyannur, Kerala
  - Competitions like debate on the Topic 'My Primeminister -2014, Nadan Paatu competition, Vocal music competition as part of Celebrating the legacy of Latha Mankeshkar,etc.
  - Observing relevant days like International Anti-Drug Abuse and Illicit Human Trafficking Day, International Folk Day etc.
  - Screening and review of the national award film *Chemeen* to commemorate its golden jubilee
33. Teaching methods adopted to improve student learning-
- Audio –Visual Teaching methods, which include screening of films related to historical & contemporary themes.
  - Students involvement in faculty projects for surveys, data collection & Review of literature.
  - Map Study and Interactive discussions
  - Internship done in various institutions in courses like applications of computers, **cooking, beautician course**, ornament designing etc.
  - Practical workshop in Archaeology
34. Participation in Institutional Social Responsibility (ISR) and Extension activities –
- Construction of house for a deserving student of the dept.
  - Visit to old age homes.
  - Social awareness classes against drug abuse, alcoholism, child abuse and gender issues
  - Donated a library for the kids at the Anganwadi in Malaparamba
  - Electrification of the Anganawadi at Nangaripparmba.
  - Tuitions given to the students of orphanages
  - Distribution of food items at 'Freebirds' , an orphanage in the locality
  - E Governance classes were given by the students to the women of neighbourhood
  - Visit to Gramasabhas to observe the functioning of democratic processes in villages
  - Visit to tribal hamlets to inculcate interest in social anthropology

### 35. SWOC analysis of the department and Future plans

#### **Strength:**

- Qualified Faculty
- Seminars and workshops including the international conferences were organized

#### **Weakness:**

- Dropout rate due to marriages
- Lack of communication skills among students

#### **Opportunities:**

- To branch out to various areas like teaching, social work. Civil services etc.

#### **Challenges**

- Lack of immediate employability after the completion of the course.

#### **FUTURE PLANS:**

- To upgrade to a PG department and Research Centre.
- To start Research Journals.

1. Name of the Department : **Languages- Malayalam and Hindi**
2. Year of Establishment : 1952(Mal) 1953(Hindi)
3. Names of Programmes/Courses : Common Course
4. Names of Interdisciplinary courses and the department /units involved: N A
5. Annual/ semester/choice based credit system (programme wise): NA
6. Participation of the department in the courses offered by other departments  
NA
7. Courses in collaboration with other universities, industries, foreign institutions: NA
8. Details of courses /programmes discontinued : NA
9. Number of Teaching Posts

	Sanctioned	Filled
Associate Professors	Hindi -1	Hindi - 1
Asst. Professors	Mal - 2	Mal - 2

10. Faculty profile with name, qualification, designation, specialization, (D.Sc/D.Litt/ Ph.D, M.Phil etc.

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of student guided the last 5 years
Ms JanceyChacko	M.A	Associate professor	Hindi Language & Literature -	25	Nil
Dr.Sr.Jaseena Joseph	MA, BEd, Ph.D,NET	Asst. Professor	Women's Plays in Malayalam Drama	10	Nil
Dr.Sreekumari	MA,Ph.D,S RF,PDF	Asst. Professor	Contributions of Literary Organization in Malayalam	10	5
Dr.Soumya K.S	M.A, Mphil, Ph.D	Guest	Disaster Consequence of War in Hindi Novels – A Critical Evaluation	3	

11. List of senior visiting faculty: NA
12. Percentage of Lectures delivered and practical classes handled (Programme wise) by temporary faculty : NA

13. Student ratio: (Programme wise): 70:1
14. Number of academic support staff (technical ) and administrative staff; sanctioned and filled :NA
15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/PG :  
 PG - 1, Ph.D - 3, SRF and PDF-1
16. .Number of faculty with on-going projects from ..... Nil
17. Departmental projects funded by DST-FIST etc... Nil
18. Research Centre/ Facility recognized by the university : Nil
19. Publications/Presentations

No of Publications:

- Number of papers published in peer reviewed journals:
  - With ISBN - 10
  - With ISSN - 4
  - Without - 14
  - No. of Papers Presented : 12
20. Areas of consultancy and income generated: NA
  21. Faculty as members in
    - a) National committees, b) International committees,
    - c) Editorial Boards....
  22. Student Projects : NA
  23. Awards/ Recognitions received by faculty and students :NA
  24. List of eminent academicians and scientists/visitors for the department:

- Dr. L Thomaskutty, Writer , Poet, Professor, University of Calicut
- P.K Parakadave, Short Story Writer, Colomist, Madhyamam Daily
- Dr. Nirmal A. C, Writer, Rtd. professor
- Sri Devasia, Assoicate Professor , Devagiri College
- Dr. K.V Thomas, Writer, Rtd. Professor, MCC, Calicut
- Sri Rajeev, Journalist.Professor University of Calicut
- Dr. Pavoov Saseendran, President –Kerala Hindi Parishath
- Mrs. Nipuna Sudha ,Hindi Officer, Southern Railway Palghat



- Dr. N.M Sunny, Professor, Malabar Christian College, Calicut
- Dr. Sethu Nath, Professor University of Calicut
- Dr. M.S Viswambran, Rtd. Professor, University of Calicut
- U.K Kumaran, Novelist and Short Story Writer
- Sri. Revindran, Joint Sectarary, Hindi Parishath
- Sr. V.K Balakrishanan, Secrtary Hindi Parishath
- P.K Gopi, Poet and Writer
- Dr. Biju Nayarandadi, Professor Govt. College Thriur
- Sri Kalpetta Narayanan, Professor, Writer, and Poet

25. Seminars/Conferences /Workshops/ Papers Presented organized & The source of funding :

Nil

26. Student Profile/Course wise : NA

27. Diversity of Students : NA

28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil Services etc. ?  
NA

29. Student progression : NA

30. Details of Infrastructural Facilities

a) Library : 150 books in the department

b) Internet facilities for staff & students: I computer.

c) Class rooms with ICT facility : Nil

d) Laboratories : Nil

31. Number of students receiving financial assistance from college, university, government or other agencies : Nil

32. Details on student enrichment programmes (special Lecture/workshops/ seminar) with external experts: Special lectures were held on;

- Importance of reading and writing, Prakirthiyumstrium, Malayalabhasha and style of speaking colloquial language O.N.V Kavithayil,
- Malayalam software & Unicode, Translation LahariyumSargathmagathaum etc.,
- Manuscript magazine Avishkaram (Malayalam), Bodhi (Hindi),
- Debate and sharing on the topics like Malyalabhashayum Classic Pathavyium, Malayali and Malayalabhasha, and SyberAvishkaram and Youth, Women's place in the political field and Smarana, current issues and translated English

stories to Hindi, Loneliness and depression of women in modern world'

- Asan Dinam was celebrated with KallyanasaukandikamThullal
- Madhuram Malayalam Programme
- Role plays on 'Asan Kavitha'
- Sahithya Samvadam on the topic 'Ente Sahithya Sangalpam'.
- Celebrating relevant days like Vayan Dinam, Malayalam Day, Premchand Day, Hindi week etc.
- Essay, Quiz & recitation competition on the topic 'Swathwavishkaram: Keralapiraviyum Malayalabhashayum.'
- A debate on the topic 'Influence of Culture in the Society' also was conducted.

33. Teaching methods adopted to improve student learning:

Discussion, Debate, Questionnaire, Interaction with the students, Paper presentations, Book review, Brain storming etc.

34. Participation in Institutional Social responsibility (ISR) and Extension activities.

- Coordinates Vocational Training Programme including book binding, stitching, ornament making etc.
- Coordinate the activities of the Carmel Welfare Centre like weaving.

35. SWOC analysis of the department and Future plans :

**Strength** – Guidance for Doctoral Studies, Imparting moral values and spirituality, Counselling,

**Weakness** - No platform to share acquired knowledge of the faculty since there are no core courses in languages.

**Opportunities** -Opportunities for higher studies and diversity in career.

**Challenges:** Student teacher ratio is high.

**Future Plans:**

- Implement PG Course
- Develop the Department as a Research Centre.
- Evolve as a Centre for Development of South Indian Languages
- Publication of Books and Implement externally funded Projects

- 1 Name of the department : **Mathematics**
- 2 Year of Establishment : 1981
- 3 Names of Programmes / Courses offered. (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : B.Sc Mathematics  
: M.Sc Mathematics
- 4 Names of Interdisciplinary courses and the departments/units involved Complementary Mathematics for B.Sc Physics & B.Sc Chemistry  
Open course: Mathematics for Social Sciences – for all other streams.
- 5 Annual/ semester/choice based credit system (programme wise) Choice Based Credit Semester System
- 6 Participation of the department in the courses offered by other departments Physics, Statistics, Chemistry - Complementary  
Open course for Physics, Chemistry, Zoology, Botany, History, Commerce, English
- 7 Courses in collaboration with other universities, industries, foreign institutions, etc. Add- on course in ‘ Film Making & Video Editing’ in collaboration with Vismayam College for Arts & Media, Kozhikode
- 8 Details of courses/programmes discontinued (if any) with reasons - Nil
9. Number of Teaching posts

	2013-14		2014-15		2015-16	
	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
Associate Professors	3	3	3	3	3	2
Asst. Professors	1	1	1	1	1	1
Assistant Professor on contract			2	2	4	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	Years of Experience
P.V.Thresiakutty	M.Sc, B.Ed, M.Phil	Associate Professor	Mathematics	32
V A IndraniDevi	M.Sc ,M.Ed,M.Phil	Associate Professor	Mathematics	31
Rosamma Devasia K	M.Sc	Associate Professor	Mathematics	28
Suchithra E	M.Sc	Asst.Professor	Statistics	9

Prajila K	M.Sc	Asst.Prof on contract	Mathematics	1
Priya K	M.Sc	Asst.Prof on contract	Mathematics	2
Neethu Vargheese	M.Sc	Asst.Prof on contract	Mathematics	1
Ahalya K K	M.Sc	Asst.Prof on contract	Mathematics	1
Saranya B	M.Sc	Asst.Prof on contract	Mathematics	1

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty : UG - 30%, PG - 100%
13. Student -Teacher Ratio (programme wise) : UG - 40: 1; PG – 7:1
14. Number of academic support staff and administrative staff; sanctioned and filled: NA
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG: M.Phil-2; PG-7
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : Nil
18. Research Centre /facility recognized by the University : Nil
19. Publications:
- a) Publication per faculty
- Number of papers published in peer reviewed journals (national /international) by faculty and students -- 1
  - Number of publications listed in International Database : Nil
  - Books Edited, Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor, h-index : Nil
20. Areas of consultancy and income generated : Nil
21. Faculty as members in a) National committees b) International Committees c) Editorial Boards. : Nil
22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/programme : 100 %
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : Nil
23. Awards / Recognitions received by faculty and students : Nil
24. List of eminent academicians and scientists / visitors to the Department
- Dr.C.Jayakumar, Dept. of Statistics, University of Calicut. (2011 – 12)
  - Sr. Beena FCC (2011 – 12)
  - Dr.Sreekumar, Assistant Professor, St. Josphes College, Kozhikode. (2011 – 12)
  - Dr.Rakesh KumarNSSO, Kozhikode (2011 – 12)

- Ms. Rajula, NSSO, Kozhikode (2012 – 13)
- Dr. Sunil Mathew, Associate Professor, N I T, Kozhikode (2012 – 13)
- Mr. Shenoj, Assistant Professor, St. Joseph’s College Devagiri, Kozhikode (2012 – 13)
- Mr. Sharmedra, NSSO, Kozhikode (2013 – 14)
- Mr. Abdul Rajab, NSSO, Wayanad (2013 – 14)
- Shiju Lal, NSSO, Kozhikode (2014 – 15)
- Mr. Sharmedra, NSSO ,Coimbatore (2014 – 15)
- Dr. M Sreekumaran Nair, HOD & Professor Dept of Statistics, Manipal University (2015 – 16)
- Ms. Melisa Glanda Louise, Dept of Statistics, Manipal University. (2015 – 16)
- Mr. Kalish M Karun, , Research Scholar, Dept of Statistics, Manipal University (2015 – 16)
- Mr. Bobby C Mathew, Senior Programme Officer, AIR, Kozhikode (2015 – 16)
- Dr. Abdul Aziz, Librarian, CHMK library, University of Calicut. (2015 – 16)
- Ms. Renuka E, ICT Center for Visually Challenged, University of Calicut (2015 – 16)
- Dr. Sunil Mathew, Associate Professor, N I T, Kozhikode (2015 – 16)
- Dr. Sunitha M.S, Associate Professor, N I T, Kozhikode (2015 – 16)
- Prof. Chandra Shekaran Govt Arts & Science College Calicut (2015 – 16)
- Dr. Jileesh, Assistant Professor, Dept of Statistics, Government Arts & Science College, Kozhikode. (2015 – 16).

25. Seminars/ Conferences/Workshops organized & the source of funding  
 a) National Seminar on statistical tools in Medical Research funded by KSCSTE

b) International - Nil

26. Student profile programme/course wise:

Name of the Course	Applications received	Selected	Enrolled	Pass percentage				
				2012	2013	2014	2015	2016
BSc	1628	32	32	84	94	72	84	76.2
MSc	26	12	12					
	24	11	11					

27. Diversity of Students

Name of the Course	% of students from		
	Same state	Other states	Abroad
BSc Mathematics	100	nil	nil
MSc Mathematics	100	nil	nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense

services, etc. ? NET-2, Defense service - NIL

29. Student progression

Student progression	Against % enrolled
UG to PG	80
PG to M.Phil.	10
PG to Ph.D.	5
Ph.D. to Post-Doctoral	1
Employed	
• Campus selection	10
• Other than campus recruitment	10
Entrepreneurship/Self-employment	80

30. Details of Infrastructural facilities

- a) Library : 600 books
- b) Internet facilities for Staff & Students : 2
- c) Class rooms with ICT facility : Provision to use Audio-visual aids in class rooms.
- d) Laboratories : A Computer Lab

31. Number of students receiving financial assistance from college, university, government or other

Year	E - grant	Others
2011 -12	19	36
2012 -13	20	38
2013 – 14	21	39
2014 – 15	20	38
2015 - 16	23	44

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :

Special lectures on

- Statistics in research
- Study skills & soft skills
- Special Lecture on investment
- Basic computer skills in statistical analysis
- Mathematics in nature
- Child Statistics
- Inter relationship between Mathematics & English
- Career opportunities in Statistics
- Relevance of International year of Statistics
- Self Awareness
- Leadership positions in global market
- Service sector Statistics
- Recording skills.
- White cane day
- World population day

Workshops on ;

- Python

- Basic computer skills in statistical analysis
  - Latex
  - CHAOS and COMPLEXITY
  - SPSS National seminar on Statistical tools Medical Research.
  - Seminar on FUZZY GRAPH
  - Relevance on recording Malayalam books
  - Opportunities of career & higher studies in Mathematics
  - Inter collegiate Quiz
  - Career talk
  - Public Speaking
33. Teaching methods adopted to improve student learning.
- Power point presentations
  - Group discussions.
  - Continuous evaluation.
  - Seminars, Assignments, quiz
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Distributing study kits & umbrellas for needy students in the locality schools
  - Visting old age homes
  - Handed Audio books to make 'DAISY' (Digital Access Information System) books in the aid of visually impaired to CHMK Library University of Calicut
  - Coaching Classes in mathematics to the students of the locality
  - Conducted a self –discovery workshop 'BLOSSOM' for students of locality
35. SWOC analysis of the Department and Future plans
- Strengths:**
- Course Demand and PG Course
  - Certificate course on 'Basic Statistical Skills In Research Analysis'
- Weakness:**
- Insufficient Research activities and publications
  - Shortage of Permanent faculty
- Opportunity:**
- Ample demand for placement in teaching and research positions
  - Add-on course on ' FILM AND VIDEO MAKING', equips students with an additional talent
- Challenges:**
- Uprise of applied and professional courses
- FUTURE PLAN**
1. Enhance Research environment
  2. Upgrade as a Research Centre

1. Name of the department : **Physics**
2. Year of Establishment : 1972
3. Names of Programmes / Courses offered : B.Sc. Physics, M.Sc. Physics
4. Names of Interdisciplinary courses and the conventional energy sources/ departments/units involved : Open course- Non Elementary Medical Physics. Offered for all streams.
5. Annual/ semester/choice based credit system Semester System : Choice Based Credit
6. Participation of the department in the courses : 1. Complementary courses for Chemistry and Mathematics Streams. 2. offered by other departments Depts. Open course for all streams
7. Courses in collaboration with other universities : DCA in Collaboration with Keltron. industries, foreign institutions, etc.
8. Details of courses/programmes discontinued : From 2014 onwards this DCA programme is (if any) with reasons conducted by the Dept. of Computer Science
9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	2	2
Asst. Professors	7	7

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	Experience In years
Dr.Mini P Balakrishnan	MSc, MPhil, Ph.D	Assoc.Prof	Non Linear Dynamics	33



Dr.Latha P	MSc, MPhil, Ph.D	Assoc.Prof	Radiation Physics	29
Dr. Sobha A.	MSc, Ph.D	Asst.Prof	Superconductivity	9
Dr.SumangalaR	MSc, Ph.D	Asst.Prof	Ultrasonics	8
Dr.Sini R	MSc, Ph.D	Asst.Prof	Blackholes	4
Dr.Jeena K	MSc, Ph.D	Asst.Prof	Astrophysics	4
Ms.Keerthi M V	MSc	Asst.Prof	ongoing	4
Ms.Siji A J	MSc	Asst.Prof	ongoing	4
Ms.Shija K	MSc	Asst.Prof	ongoing	4

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes : Nil  
handled (programme wise) by temporary faculty
13. Student -Teacher Ratio (programme wise) : UG core :36:1, UG  
complementary 40:1; PG : 8 :1
14. Number of academic support staff (technical) and administrative staff :  
Sanctioned : 2 ; Filled: 2
15. Qualifications of teaching faculty : MPhil+Ph.D - 2 ; Ph.D - 4 ; PG - 3
16. Number of faculty with ongoing projects and grants received : 2
1. Development of advanced multifunctional capacitors for electronic packaging; PI – Dr. Sobha A; CI – Dr. Sumangala R; Funded by KSCSTE (Rs. 12.65 Lakhs)
  2. Broadband studies of Active Galactic Nuclei by ASTROSAT; PI - Dr. Jeena K; funded by DST -Science and Engineering Research Board(SERB); (Rs.5.87 Lakhs)
17. Departmental projects funded by DST – FIST UGC, DBT, ICSSR, etc. and total grants received
1. Department is supported by DST under FIST program and received Rs. 2773754/-
  2. Women Scientist Scheme (WOS-A) funded by the Department of Science and Technology. ( Rs.16.39 Lakhs), duration 3 years
  3. Strong Field Gravitational lensing in Black hole Space-Time pierced by a Cosmic String, funded by UGC, PI- Dr. Sini R ( 0.8 Lakhs) 1.5 years
18. Research Centre /facility recognized by the University: Yes, Dr. Raje Bhageerathi is enrolled under WOS-A scheme of DST
19. Publications:
- a) Publication per faculty
- Number of papers published in peer reviewed journals (national /international) by faculty and students : 10
  - Conference Papers :18
  - Number of Seminar presentations by Faculty /students : 12
  - Number of publications listed in International Database (For Eg: Web

of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 9

- Monographs -Nil ; Chapter in Books : Nil
- Books Edited : 1
  1. Books with ISBN/ISSN numbers with details of publishers ---1, Proceedings of the National Seminar on Facets of Physics, ISBN 978-81-927973-6-6, NAS Publishers, 2014
- Citations----- 12
- Impact factor ----- 21.169

20. Areas of consultancy and income generated : NIL

21. Faculty as members in

a) National/ International committee

Name of Faculty	Name of Committee	duration
Dr. Mini P Balakrishnan	Member , Academic Council. University Of Calicut	2015 onwards
Dr. Latha P(Panakkada)	Member , Board of Studies Instrumentation	2014 onwards
	Member Board of Studies UG Physics	2014-2015
	Life Member, Materials Science Forum, Mangalore	1994 onwards
	Life Member, ISRP	2012 onwards
	Life Member, Academy of Physics Teachers, Kerala	2015 onwards
Dr. Sobha	Member, Academic Regulatory Committee, Veda Vyasa Vidyalaya, Calicut	2012 onwards
Dr. Sini R	Life Member, Academy of Physics Teachers, kerala	2015 onwards

b) Editorial Boards

c) Reviewer of Journal

Dr. Latha P (Panakkada) : **Canadian Journal of Physics**

22. Student projects

a) Percentage of students who have done in-house projects :

**100% .**

including inter departmental/programme

b) Percentage of students placed for projects in organizations :

**25% .**

outside the institution i.e.in Research laboratories/Industry/ other agencies

23. Awards / Recognitions received by faculty and students

1. Dr. Jeena K - Recognized as Research guide of the University of Calicut from 2016 onwards
2. Dr. Sini R - Received University and State award for the best NSS programme officer (2015)
3. Ms. Jinu Peter (BSc 2014) won the second prize with a cash award for Rs.50000/- for the presentation on Energy Conservation through

Students' during the Mathrubhumi SEED competition (2014).

24. List of eminent academicians and scientists / visitors to the department
1. Dr Anila Mathew , Toyo University,Japan.
  2. Prof Vijayalakshmi, Head , Department of Physics, Z G College.
  3. Ms Sreedevi Ajayan , Alumni and Architect.
  4. Dr.P.Rameshan professor, University of Calicut.
  5. Dr.Ranjeev Misra, IUCAA Pune.
  6. Dr. Reji Philip, RRI, Bangalore.
  7. K Nalinakshan, OISCA International.
  8. Dr BRS Babu professor, University of Calicut.
  9. Dr Mohanachandran Vice President, R&D, Hind High Vacuum Company.
  10. Mr Jayant Ganguly, Regional Science Centre (RSC).
  11. Dr. Durgesh Tripathi Inter University Centre for Astronomy and Astrophysics (IUCAA)
  12. Dr. Girjesh Gupta - Inter University Centre for Astronomy and Astrophysics (IUCAA)
  13. Dr. Ravindra from Indian Institute of Astrophysics (IIA), Bangalore
  14. Mr. Umamaheswaran from VSSC , Thiruvananthapuram
  15. Mr VKS Menon,Chief Technical Advisor, United National Industrial Development Organization (UNIDO)
  16. Mr. Shaneeth M., Head, Fuel Cell Section, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram.
  17. Dr. C. B. Sobhan, Professor, School of Nano Science and Technology& Department of Mechanical Engineering, National Institute of Technology.
  18. Dr. Aloysius R P , Senior Scientist, National Physical Laboratory, New.
  19. Mr Aswin Haridas and Mr Abhay Gopinath from Technical University , Munich, Germany.
  20. Ms. Geetha , Vice Principal , Govt. Arts and Science College , Calicut.
  21. Dr. S V M Sathyanarayana, Department of Physics, Pondicherry University
  22. Dr.Ranjeev Misra, IUCAA Pune
  23. Prof. V C Kuriakose, CUSAT, COCHIN
  24. Prof. Ninan Sajeeth Philip, St. Thomas College, Kozhenchery
  25. Dr.Ajith Parameshwaran, ICTS, Bangalore
  26. Dr. Anath Narayanan, IIST, Thiruvananthapuram
  27. Dr. C D Ravikumar, University of Calicut
  28. Prof. M C Valsakumar, I I T Palghat
  29. Prof. T N Vasudevan, Rtd. Professor, University of Calicut

25.Seminars/ Conferences/Workshops organized & the source of funding  
**National**

- a) **National Seminar on Facets of Physics** sponsored by UGC, 6-7 Nov 2014
- b) **Workshop on Solar Astrophysics** sponsored by RSC and IUCAA on 19<sup>th</sup> & 20<sup>th</sup> January 2015.
- c) **Three day Workshop on ‘Group Theory’** in collaboration with Academy of Physics Teachers (APT) from 15<sup>th</sup> to 17<sup>th</sup> May 2015
- d) **APT Series In Experimental Physics (APTSEP) - Two Day Workshop** (14-15 November 2015) Organized In Collaboration With Academy Of Physics Teachers, Kerala.
- e) **Workshop on Multi-wavelength Astronomy** organized in collaboration with IRS, Cochin and IUCAA, Pune from 25<sup>th</sup> to 27<sup>th</sup> November 2015
- f) Public lecture series Celebrating the centenary of Albert Einstein’s **General Theory of Relativity** A talk on Gravitational Waves by Dr.Ajith Parameshwaran, ICTS, Bangalore on 19<sup>th</sup> February 2016
- g) **One day seminar on Foundations of Quantum Mechanics** organized in collaboration with Kerala State Council for Science Technology and Environment on 19<sup>th</sup> March 2016
- h) **Three day APT Workshop series in ELECTROSTATICS** sponsored by Association of Physics Teachers (APT) from 29-30 April & 1 May 2016.

**International -----Nil**

26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage				
			*M	*F	2012	2013	2014	2015	2016
B.Sc.Physics	2365	36	F		85.2	91.3	74.19	83.3	-
M.Sc Physics	200	12	F		83.3	82.8	90	72.7	-

27. Diversity of Students

Name of the Course	% of students from the		
	same state	other States	abroad
BSc	97%	3%	0
MSc	100%	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? -----6

29. Student progression

Student progression	Against % enrolled
UG to PG	60
PG to M.Phil.	3
PG to Ph.D.	10

Ph.D. to Post-Doctoral	
Employed • Campus selection • Other than campus recruitment	80
Entrepreneurship/Self-employment	-

### 30. Details of Infrastructural facilities

#### a) Library

**Departmental Reference section : 357 ;** No. of complementary copies: 20

No. of books donated by well wishers and students: 10

Internet facilities for Staff & Students: 17 computers with Internet facility

#### c) Class rooms with ICT facility : Provision to use OHP and LCD projector

#### d) Laboratories

UG lab, PG lab

Research lab: Materials science, Radiation Physics & Astronomical data analysis lab

### 30. Number of students receiving financial assistance

2011-12		2012-13		2013-14		2014-15	
E Grant	others	E Grant	others	E Grant	others	E Grant	others
52	10	51	-	53	37	57	-

### 31. Details on student enrichment programmes with external experts

In addition to the seminars and workshops the following enrichment programmes were arranged.

- Training on low cost LED bulb making
- Talk on Advanced materials for Aerodynamics by Mr. Aswin Haridas and Mr. Abhay Gopinath from Technical University, Munich, Germany
- Talk on Adolescents skin care by Dr. Jenny Mathew, skin specialist.
- Training on the use of newly procured research equipment like UV-Visible spectrophotometer, Radiation Detectors etc.
- Talk on Astronomy by Dr. Ranjeev Misra, IUCAA Pune
- Talk by Dr. Reji Philip, RRI, Bangalore highlighting the research openings available

### 33. Teaching methods adopted to improve student learning

1. Teaching is made student-centric.
2. Visit to research institutions
3. Remedial classes for weak students

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- a. Students were given training in low power LED bulb making
- b. Astro club organises sky watch in association with the Regional

- Science Centre for the students and people in the locality.
- c. Energy and environment club carries out projects and presentations to create awareness.
- d. Academic support is given to the students of Malaparamba L P School

### 35. SWOC analysis of the department and Future plans

#### **Strength**

1. Recognized research centre of the University of Calicut
2. Major & Minor Projects funded by DST, UGC & KSCSTE
3. Women Scientist Program of DST
4. Collaboration with reputed research institutions like IIA-Bangalore, IUCAA-Pune, DAMP- Manipal University, Radiation Physics department of Medical College, Regional Science Centre-Calicut etc.
5. External funding from KSCSTE, IUCAA, APT for conducting seminars and workshops.

#### **Weaknesses**

1. Delay in the University admission process and exams

#### **Opportunities**

1. Opportunities to pursue research in Established Research institutions like IIA-Bangalore, ISRO-Bangalore, IUCAA-Pune, University centres etc.
2. Opportunity to present & publish papers in national seminars/international seminars during their course and to get involved in summer research projects in research institutions.
3. Scope for career in the field of teaching, banking, research etc.

#### **Challenges**

1. Delay in the admission process by the University compel the students to join autonomous colleges and colleges outside Kerala
2. The delay in filling the faculty vacancies due to government policy
3. Students are encouraged by parents to enter into a career rather than doing research or going for higher studies
4. Varying Socio economic back ground of students

#### **Future Plans :**

1. Students to be enrolled for Ph.D
2. More research projects and publications
3. Motivational classes for the students
4. Coaching for competitive examinations

1. Name of the department : **Physical Education**
2. Year of establishment : 1954
3. Name of programs /courses offered : N A
4. Name of interdisciplinary courses and the departments/units involved : Open Course - Physical Activity Health & Wellness
5. Annual/semester/choice based credit system : Choice Based Credit Semester System
6. Participation of the department in the course offered by other departments : N A
7. Courses in collaboration with other universities, industries ,foreign institutions, etc. : N A
8. Details of courses/programmes discontinued(if any)with reasons : N A
9. Number of teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	1	NIL
Guest	-	1

#### 10.Faculty Profile

Name	Qualification	Designation	Specialization	years of experience
Sangeetha. K	MPEd , M.Phil	Guest lecturer	Basketball	3 years & 6 months

11. List of senior visiting faculty : Smt. V. K Valsamma (Retd. from the dept. of Physical Education, Providence College)
12. Percentage of lecturers delivered and practical classes handled (programme wise) by temporary faculty) : N A
13. Student- teacher ratio : 100 : 1
14. Number of academic support staff (technical)& administrative staff; sanctioned and filled : NA
15. Qualification of teaching faculty with : MPEd , MPhil & Doing PG in Psychology
16. Number of faculty with ongoing projects : NIL
17. Departmental projects funded by DST-FIST;UGC,DBT, ICSSR, etc..and total grants received : **3 lakhs sanctioned & received (UGC)**
18. Research centre /facility recognized by the university : N A
19. Publications : 4 ; Paper presentation : 4
20. Areas of consultancy and income generated : N A
21. Faculty as members in National / International committee , Editorial boards etc .: Nil
22. Student Projects : NA
23. Awards and recognitions received

## Achievements in open tournaments

### 2011-12

year		Inter National	Nationals	State	All India Inter University	Inter Collegiate	Positions
2011-12	Basket Ball	-	3	09	10	12	First
	Hand Ball	01	11	16	06	16	second
	Soft Ball		01	07	02	15	Third
	Table Tennis				01	05	First
	Shooting		01	02	01	02	
	Power Lifting	01	01	01	01	01	first
2012-13	Basket Ball		06	12	10	12	First
	Hand Ball		10	14	08	16	First
	Net Ball				08	14	First
	Soft Ball			08	01	15	Third
	Table Tennis				02	05	First
	Shooting		01	01		02	
	Power Lifting				01	01	First
	Kalaripayattu			01	01	02	First
Cricket				01	-		
2013-14	Basket Ball		06	14	07	12	First
	Hand Ball		11	14	07	16	First
	Net Ball		04		07	14	First
	Soft Ball			11	04	15	Second
	Table Tennis				01	05	Second
	Shooting		3			02	
	PowerLifting		01		01	01	First
	Kalaripayattu		01			02	First
2014-15	Basket Ball		05	12	07	12	First
	Hand Ball		05	12	10	16	First
	Net Ball		06	10	07	14	First
	Soft Ball			10	02	15	Third
	Table Tennis				01	05	Third
	Shooting		01			02	
	Swimming					01	Third
2015-16	Basket Ball		03	12	05	12	Second
	Hand Ball		06	15	08	16	Second
	Net Ball		05	11	06	14	First
	Soft Ball			10		15	
	Table Tennis				01	05	second
	Shooting		02			02	first
	Taekwondo		-	-	-	05	second

- 1 player attended youth Indian Camp
- All India Inter University Handball IVth, Dist.senior & junior league winners
- Winners in Senior National Soft ball championship, runners in Dist.senior league
- Winners in dist.League Table tennis
- Dist.League Shooting-winners

### 2012-13

- Youth National basketball Winners, 1 Player attended junior Indian Camp & Senior dist.league Winners



- All India Inter university Handball -third, South zone Winners. Dist. senior & junior league winners
- All India Inter University Softball -third, Dist. League runners
- In shooting Elizebeth Olga Merandez secured National second, Participated pre Olympic selection trials, winner in dist. championship
- Won State & dist. Kalaripayattu championship
- Third in All India Inter university cricket championship

#### **2013-14**

- Senior dist. Basketball championship - winners & runners in Junior dist.
- All India Inter University Handball -third, Senior & junior dist. league Winners, State winners. College games winners
- Dist. league Softball -second
- Dist. league Table Tennis -second
- In Kalaripayattu Dist. first & National -second

#### **2014-15**

- Second Place in JASA All India Inter collegiate Basketball tournament held at Coimbatore.
- Runners Up in All Kerala Basketball tournament held at Assumption College Changanassery.
- Winners in Kozhikode dist. senior league Basketball Championship.
- Winners in Kozhikode dist. senior league Handball Championship.
- Winners in Kozhikode dist. senior league Softball Championship.

#### **2015-16**

- Second Place in South Indian Inter collegiate Basket Ball tournament held at Chennai.
- Second place in All Kerala Basketball tournament held at Assumption College Changanassery.
- Second place in All Kerala Basketball tournament held at St. Joseph's College Irinjalakkuda.
- Basket ball & Handball team secured Second place in college games held at Trivandrum.
- Five of our students were selected in Calicut university Basketball team and they won All India Interuniversity championship held at Delhi.
- Runners Up in All Kerala Basketball tournament held at St. Xavier's College Aluva.
- Runners Up in All Kerala Basketball tournament held at St. Joseph's College Irinjalakkuda
- Runners Up in All Kerala Basketball tournament held at Kottayam.
- Third place in Champions trophy basketball tournament.
- Second place in senior state Handball championship held at Ernakulum, 6 students from our college selected to National team.
- Third place in junior state Handball championship held at Trivandrum
- Second place in women's state Handball championship held at Thrissur
- Winners in Kozhikode dist. senior league Softball Championship.
- Winners in Kozhikode dist. Net ball Championship.

- Rhea Jinendran (B.com, Captain of Calicut university Basketball team) represented Kerala state in Senior National Basketball championship, and they secured 2<sup>nd</sup> place.
- Rhea Jinendran (B.com)Elizebath Hilarious& Athulya were selected to kerala team for Federation cup Basketball,and they won the championship
- Elizebath Olga Merandez won bronze in National &gold in state Rifle shooting Championship
- Anagha c(MA Eng) won gold in National &state Rifle shooting Championship
- Daliya M V (Physics) participated in dist. Rifle Shooting championship and won 6 gold medals in different events and selected for State team.
- Calicut university inter collegiate Taekwondo championship-Athulya NV(Physics)-silver medal, Paikattil Gayathri(Zoology)-Bronze, Shilpa A(T&T)-Bronze,Rashida NP(BBA)-Bronze

Programs organized by the Department

2011-2012	2012-2013	2013-2014
<ul style="list-style-type: none"> <li>• Inter Collegiate Basketball –Women</li> <li>• Handball Senior league</li> <li>• Handball University Camp</li> </ul>	<ul style="list-style-type: none"> <li>• Inter Collegiate Basketball-Women</li> <li>• Inter Collegiate Handball-Women</li> <li>• Inter Collegiate Softball –Women</li> </ul>	<ul style="list-style-type: none"> <li>• Inter Collegiate Handball-Women</li> <li>• Inter Collegiate Netball-Women</li> <li>• Handball Dist. League</li> <li>• Basketball University coaching Camp</li> </ul>
2014-2015		2015-16
<ul style="list-style-type: none"> <li>• Inter Collegiate Basketball</li> <li>• Inter Collegiate Handball</li> <li>• Senior Dist. League Softball</li> <li>• Senior Dist. league Handball</li> <li>• Junior Dist. Handball</li> <li>• State Women Handball</li> <li>• Basketball University Coaching Camp</li> <li>• Handball University Coaching Camp</li> </ul>		<ul style="list-style-type: none"> <li>• Handball University Coaching Camp</li> <li>• Netball University Coaching Camp</li> <li>• Junior Dist. Handball</li> </ul>

24. List of eminent academicians and scientists/visitors to the department  
: N A
25. Seminars /conference/workshops organized &the source of funding:  
NA
26. a)National; b)international : Nil
27. Student profile programme /course wise : NA
28. Diversity of students : NA
29. How many students have cleared national and state competitive examinations such as NET, SLET, GATE etc..  
: NA

30. Student progression : NA
31. Details of infrastructural facilities : Multipurpose stadium with 200M track.(Handball court, Netball Court, Volleyball Court, Soft ball, Cricket pitch etc) , Indoor for Basketball, Fitness Centre , facilities for Table Tennis, Chess
32. Number of students receiving financial assistance from college, university, govt. or other agencies : 60
33. Details on student enrichment programmes with external experts : NA
34. Teaching methods adopted to improve student learning : NA
35. Participation in institutional social Responsibility (ISR)and Extension activities:  
Provide infrastructure & facilities to the schools & district organizations

**Future plans:**

- Evolve as a Centre for Women in Sports
- To mould Nationals & Inter National Players.
- To include Yoga in the curriculum
- To introduce new games

1. Name of the department: TRAVEL & TOURISM MANAGEMENT
2. Year of Establishment : 2005
3. Names of Programmes / Courses offered : UG
4. Names of Interdisciplinary courses and the : Open course for (BBA)-Event Management  
Departments/units involved Certificate course (IATA)
5. Annual/ semester/choice based credit system : Choice Based Credit System  
(Programme wise) B.A Travel and Tourism Management
6. Participation of the department in the courses : Students opted Open course (IT) of  
Offered by other departments the Department of Computer Science Complementary papers-IT (1Vth Sem) & Statistics (1 sem ) by Computer Science  
Department.
7. Courses in collaboration with other universities,-  
1.Certificate course in association with "Edunet"  
Industries, foreign institutions, etc. 2. IATA-Speed Wings,  
3. Waiter's Course-SIHM  
4. CRS Training-ATE
8. Details of courses/programmes discontinued : Nil  
(if any) with reasons
9. Number of Teaching posts

	Sanctioned	Filled
Professors	---	----
Associate Professors	---	----
Asst.Prof.on Contract	4	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)

Name	Qualification	Designation	Specialization	Years of Experience
Ms.Smitha.S	MTA, M.Phil	Assistant Professor on contract	Tourism	8
Ms.Ann Rose	M.Com	Assistant Professor on contract	Finance	7
Ms.Rashmi L	MTM	Assistant Professor on contract	Tourism	-

Ms.Anjali C.K	M.A, M.Phil, B.Ed	Assistant Professor on contract	English	15
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11. List of senior visiting faculty: Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary Faculty : 100%
13. Student -Teacher Ratio (programme wise) : 30:1
14. Number of academic support staff and administrative staff; sanctioned and filled : Nil
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.: M.Phil-2 : PG-2
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and grants received: Nil
18. Research Centre /facility recognized by the University: Nil
19. Publications:
- Publication per faculty-  
Number of papers published in peer reviewed journals (national /international) by faculty and students : 4  
Ms.Smitha.S (2014): 3  
Proceedings (National Seminar) ISBN 9789382709954
  - Ms.Smitha.S presented a paper on 'Role of social media in Tourism' In a National Seminar organized by Dept. of Commerce, Providence Women's College, Calicut.
  - Ms.Ann Rose presented a paper on 'Consumer Acceptance of online marketing over traditional marketing' in a National seminar organized by Dept. of Commerce, Providence Women's College, Calicut.
    - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :Nil
    - Monographs: nil
20. Areas of consultancy and income generated: Nil
21. Faculty as members in  
a) National committees b) International Committees c) Editorial Boards.: nil
22. Student projects  
a) Percentage of students who have done in-house projects : 80%  
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies : 20%
23. Awards / Recognitions received by faculty and students:
- Ms Chrita.K.C-University Topper Award(2013)
  - Ms.Haritha-Best Model Award-Management Fest (IIM,Kozhikode)(2014)

- Students prepared a brochure “A walk through Calicut” for International Tourism Bourse (ITB),Berlin

24. List of eminent academicians and scientists / visitors to the department

- Dr. Anil Kumar , Head, Department of Commerce & Management, S.N.D.P.Yogam College
- Mr.Mubhasheer, General Manager ,ATE
- Mr. Rajeev, DTPC Secretary
- Mr.Biji Eapen, Director, Speed Wings Aviation Academy
- Ms Subini. S Nair (Director Operations) and Sumesh Magalaserry (MD, Kabini tourism and community services
- Mr.C.K.Ramachandran(Retd.IAS) and also Mr.joy(Convener of Calicut heritage forum).
- Dr.Toney K Thomas-Taylor’s University, Malaysia
- Dr.Vijaya Kumar,Principal, KITTS,Trivandrum
- Mr. Balaji (Principal, SIHM, Calicut)
- Ms. Sindhu Joseph, Asst. Prof, GPM College Manjeshwaram

25. Seminars/ Conferences/Workshops organized & the source of funding a) National; b) International

26. Student profile programme/course wise: **BA Travel and Tourism Management**

Name of the Course/programme(refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage				
			*M	*F	2011-12	2012-13	2013-14	2014-15	2015-
BA Travel and Tourism Management	369	40	40		100%	63%	64%	87%	85%

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
Travel & Tourism Management			
2011-12	100		-
2012-13	97		3
2013-14	97		3
2014-15	100		-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. : Nil

29.Student progression

Student progression	Against % enrolled
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UG to PG 20%	11-12	12-13	13-14	14-15	15-16
PG to M.Phil	Nil	30%	40%	25%	
PG to Ph.D.	Nil				
Ph.D. to Post-Doctoral	Nil				
Employed					
• Campus selection	10%				
• Other than campus recruitment	30%				
Entrepreneurship/Self-employment	5%				

30. Details of Infrastructural facilities

- a) Library : No. of Books- 306 Vol
- b) Internet facilities for Staff & Student –Sharing with BBA
- c) Class rooms with ICT facility-Nil

31. Number of students receiving financial assistance from college, university, government or other agencies-Nil

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts-

1. Topic related Special lectures & Seminars by eminent academicians on World Tourism Day  
National Tourism day and other important days
2. Exhibition
3. Participation in job fairs
4. Conducting Campus interview
5. Certificate Course-IATA

33. Teaching methods adopted to improve student learning : ICT learning, Seminars, Quiz, Debates, On the job Training

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- In charge of Institute of Palliative Medicine (IPM)
- Extension activities in Gurukulam Orphanage, Peruvayal
- Activities in the Adopted school- Govt. U.P School - Civil Station

35. SWOC analysis of the department and Future plans

**Strength**

1. Rapid placement after the course, with the vast job opportunities
2. Semi Professional nature of the course
3. Industry based Linkages and the exposure given to the students

**Weakness**

1. Lack of awareness to the employability of the course
2. Self financing nature leading to ad-hoc faculty
3. Conservative family background of the students.

**Opportunities**

1. Job oriented course
2. High possibility of social interaction
3. Personality development through positive exposure.

4. Opportunity to do P.G in Tourism at National institutes/IITTM.

**Challenges**

1. Mushrooming of various short term tourism courses
2. Support to be given to students from conservative background.

**Future Plans**

- IATA certification by Speed Wings for Second Year students
- Communicative Language Teaching (CLT) for First Years
- On the job Training for Final years.



1. Name of the department : ZOOLOGY  
 2. Year of Establishment : 1957  
 3. Names of Programmes / Courses offered : UG  
 4. Names of Interdisciplinary courses and the 'Nutrition Health and Hygiene' departments/units involved for students from other streams, Add on Course in 'Sericulture'  
 5. Annual/ semester/choice based credit system : Choice Based Credit Semester System (programme wise)  
 6. Participation of the department in the courses : Offers Complementary Zoology Course for students of BSc Botany  
 7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil  
 8. Details of courses/programmes discontinued (if any) with reasons : Nil  
 9. Number of Teaching posts

	Sanctioned	Filled
Professors	--	--
Associate Professors	--	--
Asst. Professors	4	3
Guest faculty		1

10. Faculty profile with name, qualification, designation, specialization

Name	Qualification	Designation	Specialization	Number of yrs Experience
Dr. Nishi Ann	M.Sc, B.Ed, Ph.D	Asst. Professor	Entomology & Ornithology	8
Dr. Sangeetha G. Kaimal	M.Sc, B.Ed, M. Phil, Ph.D	Asst. Professor	Acarology	4
Dr. E. Julie	M.Sc, B.Ed, M.Phil, Ph.D	Asst. Professor	Acarology	4
Ms. Jipsa	M.Sc	Guest lecturer	Entomology	1

11. List of senior visiting faculty : Nil  
 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary Faculty : 5 theory : 6 practical  
 13. Student -Teacher Ratio (programme wise): 36: 1  
 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled  
 Sanctioned :1 Filled : 1  
 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. M Phil + PhD: 2, PhD : 1

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

UGC Funded Minor Research Projects

1. Inventory of Oribatid mites of Nilambur forest reserve, Western Ghats, India. PI: Dr. Julie E, (1.5 lakhs) (1 ½ years) (2013 - 14)
2. Studies on Feeding Biology and Evaluation of Leaf Damage induced by Spider Mites on Vegetable Crops. PI Dr. Sangeetha G Kaimal, (1.5 lakhs) (1 ½ years) (2014 - 15)

18. Research Centre /facility recognized by the University : Nil

19. Publications:

Publication per faculty

- Journal : 15
- Proceedings : 3
- Seminar presentations: 12
- Monographs : Nil
- Chapter in Books :1
- Books Edited :1 ; Proceedings of the National Seminar on Biodiversity, its Concepts and Concerns
- Books with ISBN/ISSN numbers with details of publishers : Proceedings of the National Seminar on Biodiversity, its Concepts and Concerns, ISBN No. 978-93-82709-80-0, Insight Publica, Calicut.
- Citations :Dr. Sangeetha G. Kaimal – 17
- h-index :Dr. Sangeetha G. Kaimal – 2

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards : Dr. Sangeetha G Kaimal, Member of Research Council, TC Narendran Trust for Animal Taxonomy.

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme : 100%
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: Nil

23. Awards / Recognitions received by faculty and students

1. Award for the best NSS volunteer in Calicut University: Ms. Sijina KP (VI Sem Zool 2015-16)
2. Dr. Sangeetha G Kaimal - Second Prize for Best Paper Presentation in 3<sup>rd</sup> International Congress on Global Warming on Biodiversity of Insects: Management and Conservation Strategies (GW-BIMC, 2013), 26<sup>th</sup> - 28<sup>th</sup> November, 2013 held at Department of Zoology, Bharathiar University, Coimbatore, Tamil Nadu, India.
3. Athira A., Aswathi S. B., Fathima Safna, Jishna M. P. and A. Akshaya won The Millenium Zoology Award, 2013 for The Best UG Student Project, 2012-13 entitled Biological Studies of *Eutetranychus orientalis*

(Klein) (Acari: Tetranychidae) infesting *Azadirachta indica* A. Juss. Under the guidance of Dr. Sangeetha G Kaimal.

4. Miss Sruthy KT won First Prize for the Best Student Project - Vengalam Mangroves and Odonates – A Call to Action – guided by Dr. Sangeetha G Kaimal in The Project Presentation Competition held at CWRDM, Calicut in connection with World Wetlands Day celebrations on 2<sup>nd</sup> February, 2015.

24. List of eminent academicians and scientists/ visitors to the department  
2011-12

- Dr. Deepa Narayanan, Lecturer, Transfusion Medicine & Haematology, Govt Medical College, Calicut
- Dr. V.K.Prabhakaran, Vice President IMA, Institute of Chest Medicine, Govt Medical College, Calicut
- Prof. V.P.Sasidharan, HOD Transfusion Medicine, Govt Medical College, Calicut
- Dr. T.P.Rajagopal, President IMA, Institute of Chest Medicine, Govt Medical College, Calicut
- Sri. K.N. Viswaraj, Agricultural officer, Agriculture dept. & winner of Karshaka Mitra Award

2012-13

- Dr. K. Rajmohana, Scientist, ZSI, Calicut, Kerala.
- Mr. Binoy, JRF-ZSI, Calicut, Kerala.
- Mr. Babu Of Suchitwa Mission , Govt. of Kerala.
- Dr. Mohandas, Blood Bank Officer, W&C Hospital Calicut.
- Sri. S.H.Panchapakesan, District Judge, Labour Court, Calicut.
- Mr. Sunil Kumar, Junior director KSACS
- Mr. Thomas Wilson, Campaign co-ordinator & NSS Officer.
- Mr. Madhusoodhanan P.V. Regional manager, HLPPT, Trivandrum.

2013-14

- Dr. Muhamed Jafer Palot, Assistant Zoologist, Western Ghats Regional Centre, Zoological Survey of India.
- Dr. Jobiraj T., Asst. Professor, Govt College, Kodenchery, Calicut
- Dr. K. Mohandas, MD Pediatrician, W&C Hospital & Blood Bank Officer, Calicut.
- Shri. Sudhakaran, Mass Media Officer, Kozhikode district
- Dr. Jayasree Nambiar, Cardiologist, Baby Memorial Hospital, Calicut
- Dr. Archana P., Blood Bank Assistant, Govt. Medical College, Calicut.
- Mr. Asokan Alapurath, President, Kerala Voluntary Blood Donors Forum.

2014-15

- Adv. Shijo Joseph, Secretary of CARE Organisation.
- Dr. Georly Manuel, Associate Professor, JDT Nursing College.
- Dr. K.K. Baby, Veterinary Surgeon, Govt. Veterinary Hospital Calicut.
- Dr. Nejmunnissa, gynaecologist PVS Hospital.
- Sri. Babu Giridhar, Deputy Director, Central Silk Board, Palakkad, Kerala.
- Dr. Joy N John, Scientist, CSRTI, Central Silk Board, Agali.

- Mr. P.C. Johny, Technical Asst., Central Silk Board, Palakkad, Kerala.
- Mr. U. Narayanan Kutty, Technical Asst., SMOI, Central Silk Board, Palakkad, Kerala.

2015-16

- Dr. M. Anandaraj (Director, IISR Kozhikode, Kerala)
- Dr. P.S. Easa (Director, Kerala Forest Research Institute, Peechi, Kerala)
- Dr. Sinu PA (Asst. Professor, Dept. of animal science, Central University, Kasaragod,
- Dr. U. Unnikrishnan (Asst. Prof., Dept. of Env, Sci., Central University, Kasaragod)
- Dr. Kunji Krishnan (Former HoD, University College, Thiruvananthapuram, Kerala)
- Dr. T.V. Sajeew (Entomologist, Kerala Forest Research Institute, Peechi, Kerala)
- Ms. Aman Deep Kaur IFS (DFO, Kozhikode, Kerala)
- Dr. N B Narasihma Prasad (Director, CWRDM, Kozhikode, Kerala)
- Dr. V.K. Sreekumari, retired senior medical officer of Trissur Medical College.
- Dr. Geetha Gopalakrishnan, dvd consultation , Nahas skin clinic, Calicut.
- Dr. E. Sreekumaran, Reader in Physiology, Department of Life Science, CU Campus.
- Mr. Ashokan, President, All Kerala Blood Donors Forum, Kozhikode chapter.
- Mr. Rajeev, Senior Technician Blood Bank Calicut Medical College.

25. Seminars/ Conferences/Workshops organized & the source of funding

(Title of seminar, funding agency, total grant, date of seminar)

- a) Biodiversity- Its Concepts & Concerns; Funding Agency: UGC; Total Grant : Rs.1,10,000/-, held on 15<sup>th</sup> & 16<sup>th</sup> January, 2015.

26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage				
			*M	*F	2011-12	2012-13	2013-14	2014-15	2015-16
B. Sc Zoology	4140	36	36		68	81	82	94	

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students From abroad
B Sc Zoology	100%	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NET : 3

29. Student progression

YEAR	% Completing UG	%UG to PG	% PG to M.Phil /Ph.D	%Employed(No. of Campus selection)	% Cleared NET/SLET/GATE/CIVIL	%UG to B.Ed
2011-12	97	56	7	11	8	22
2012-13	100	38				14
2013-14	97	28				21
2014-15	94	47				22
2015-16	100					

### 30.Details of Infrastructural facilities

- a) Library- 2500
- b) Internet facilities for Staff & Students ;13 Computers
- c) Class rooms with ICT facility- Nil
- d) Laboratories : 4
  1. Animal Science Lab (UG)
  2. Entomology & Animal Taxonomy Lab
  3. Animal Physiology & Biochemistry Lab
  4. Bioinformatics lab

### 31. Number of students receiving financial assistance from college, university, government or other agencies

#### College level

3. Scholarships instituted by former and present faculty: 4
4. Scholarships instituted by alumnae Association : a few
5. Scholarships obtained by the students of the department

YEAR	SC	ST	OEC	KPCR	OBC	Total	% Availing scholarship	College Scholarship	Staff	Alumnae
2011-12	13	8	--	6	17	44	54	8	1	1
2012-13	11	12	1	9	17	50	58	8	--	2
2013-14	13	11	1	10	17	52	51	7	--	3
2014-15	13	10	2	11	24	60	60	7	3	--
2015-16	15	7	3	13	34	72	68	9	3	--
2016-17	10+	4+	3+	10+	26+			6+	3	--

### 32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

### 33. Teaching methods adopted to improve student learning

1. Online teaching - E assignments.
2. Virtual Dissections without disturbing live organisms.
3. Power point presentation of topics by teachers
4. Encourage online submission of assignments.

5. Assist students in Collection & preservation of specimen and taxonomic studies of specimens.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
1. Survey on endemic diseases.
  2. Solid waste management
  3. Health survey
  4. Classes on monsoon diseases
  5. Awareness classes on Health/Psychological problems in adolescence, Heart disorders, Hepatitis, Renal diseases, Detection of breast cancer etc., BP, Sugar etc., Vist to old age home, orphanage, juvenile home, Blood grouping, Estimation of blood glucose level, TC/DC of blood, Voluntary blood donation

35. SWOC analysis of the department

**Strengths**

- Publication of student projects in National/International peer reviewed journals.
- Clubs – R & D club, Eco-dudette club, Red Ribbon Club, BDF.
- Assisting students in Collection and taxonomical studies of specimens
- Encouraging ecofriendly activities among students - Paper bag making
- Voluntary blood donation and Blood grouping

**Weaknesses**

- Preference of students to Professional / job oriented courses
- Lack of PG course in Zoology
- Lacunae and Unambiguity in the revised syllabus

**Opportunities**

- Chances to get placed at fields like Veterinary field, Health inspector, Live stock and animal husbandry, Museum curator, Pest management Industry, Industrial fisheries, Silk industry etc.
- Exposure of students to emerging specialized areas of studies

**Challenges**

- Budding professional institutions, offering 100% placement of job oriented courses
- Lack of PG course and research centre
- Fund constraints.

**FUTURE PLANS**

To upgrade to a PG department and Research Centre.

To undertake more research projects

## **Best Practice I**

### *1. Title of the Practice*

#### Women Empowerment through Education

### *2. Goal*

The aim of the college is to create a better world by empowering women. The college has stood as a beacon guiding the empowerment of women, ever since its inception. Girls who enrol as students of the college are provided all the opportunities to prepare them for life – acquiring education of a high standard to be equipped for appropriate careers, organizing and participating in various programmes to achieve all-round personality development, engaging in social service to become empathetic and responsible individuals, and imbibing the values that the institution and its management espouse so as to be guiding lights to the whole society. The college has been able to cater to the needs of the students belonging to different socio-economic strata, especially the students belonging to low income groups and minorities. Women who are empowered by the noble mission of the college play dynamic and catalytic roles in the larger society.

### *3. The Context*

The aim of the college is to educate and empower women so as to ensure gender equality in the society, and consequently, to create a better world. Only through the education and empowerment of women can these noble goals be fulfilled. The college has always focused on encouraging women to pursue higher studies, research, enter careers and to balance home and office. The history of the college is deeply rooted in this vision. Till the middle of the previous century, the girls of the Malabar region of North Kerala faced a severe handicap in pursuing higher education. They had to travel far to other provinces to enter the portals of a women's college, or terminate their studies and settle into domestic life. Most of the communities of the region had severe reservations about educating their daughters in mixed colleges. Consequently, the role played by these women in serving the society was rendered miniscule in every field. It was this situation that prompted the sisters of the Apostolic Carmel Congregation to institute the first women's college in this region, in 1952. More than 6 decades later, the college continues to uphold this mission by integrating it with the advances made in various fields of enterprise, and providing women the latest facilities and creating adequate opportunities for them to rise to their full potential.

### *4. The Practice*

- To educate is to empower. The college has remained steadfastly committed to women's education, upholding the ideology of providing women their equitable share in higher education. Surging beyond the early stages of Pre University education, today the college offers many Post Graduate courses, and also the facilities for research.
- The curriculum followed in the college is a rich combination of academics and various other activities. As organizers and beneficiaries of these programmes, the students here get countless opportunities to hone their leadership and team working skills, and get exposed to various fields of enterprise, in a way that mixed colleges would not be able to provide for girls. The different clubs functioning under each department keep the college dynamic and productive. These clubs function as forums to improve the speaking, debating, analyzing and organising skills of its members. Their role in developing the critical thinking and positive attitude is truly commendable.
- The Commerce department has an active Entrepreneurial Skill Development Club which promotes the manufacture and marketing of products made by the students, organizes exhibitions of these products, and food fests. The Inter collegiate Management fest *Agratha* organized by the department of Business Administration improves the leadership capacity and gives enough exposure to the young future women entrepreneurs. Such activities enhance their business acumen, as is evident in the examples of Head over Heels and Sugar Sisters - two of the successful business enterprises launched by the students.
- The departments bring out their annual manuscript magazines written and edited by the students, giving them the training for journalistic work. Successful journalists like Nikhila Henry and Anima P. have been groomed by the extra curricular activities of the college.
- Recognising the need for women to be spiritually and mentally healthy and vibrant if they are to be fully empowered, the college gives much importance to mentoring and counseling. These are done very systematically during the Tutorial and Value Education sessions.
- The physical fitness of women is a prime concern of the college. The college gives special weightage at entry level to the students who are talented in sports and has a full fledged Physical Education department and a Fitness Centre. Basketball, Softball, Handball, Netball, Shooting and Table tennis are some of the sports events in which the students get trained. State of the art facilities are offered to the sports students here. The laurels won by the students of sports are numerous.
- Empowering women of the neighbourhood. The college has a Women's Resource Centre and a Charkha Centre that help women of the locality to generate self-employment. Training is given in book-binding, umbrella making, tailoring, embroidery, and jewellery and toy making. Exhibitions are organized to sell the products manufactured by them. The Charkha Centre promotes employment for women through traditional spinning of yarn. These ventures of the college have helped women belonging to low income groups to generate their own income. E-governance classes equip them with knowledge in computer related activities. Medical camps and talks on health-related topics are



arranged for the women of the college neighbourhood. The Mother Veronica Library set up by the college is specifically meant for the women and children of the locality.

- The college seeks to boost the presence and performance of women in the field of research. Research activities are promoted by encouraging the students to present and publish papers in seminars and conferences. National and international seminars that are frequently organized expose the students to the latest in various fields and also make the students better organizers. The College is a partner in the Women Scientist Programme of FIST.
- The dynamic Women's Cell of the college engages in various Consciousness-raising programmes for the students and the women of the neighbourhood. The college offers an Add-on course in Women's Studies. Gender Studies, Women's Writing and Gender Economics are some of the elective subjects chosen by the various departments to sensitize the students further. The Library subscribes to many journals and periodicals on Women's Studies.
- The Career Guidance Cell, the Additional Skills Acquisition Programme and the Entrepreneurship Development Programme open up various career prospects for the students. Internship and training programmes in external bodies also aid this target. The college has signed MoUs with the Folklore Academy of the Govt. of Kerala, and with the District Industries Centre. These, and the tie up with various other organisations that provide training and internship opportunities, give women the impetus to make themselves more employable.
- The major challenge faced by the college in executing these practices is the tight schedule of the academic calendar of the affiliating university. A further difficulty is the alignment of novel programmes with the conventional nature of the courses offered by the college, and the relatively lower number of campus placement opportunities available in Arts and Science Colleges.

##### *5. Evidence of Success*

- The laurels won by the students in academic, cultural and sports fields are unparalleled when compared to any other women's college in North Kerala. The college has shown its academic excellence with a fairly good pass percentage and a good number of university toppers every year. Many of the alumni are successful career women donning important and versatile roles in various realms. They have been able to function as catalysts of change in the society.
- The sports students of the college perform extremely well in university, state, national and international events. Most of them get government jobs and have a secure future. Olympian P.T .Usha and Arjuna awardee Saly Joseph are two among our prominent sports alumni.
- The National and State award winning script writer and director Ms Anjali Menon is an alumna of the college. Many others like Sangeeta Nambiar, Akhila Henry and Merlin Babu are making their mark in

film-making and other fields traditionally considered to be male-dominated.

- The college secured the third position in the Calicut University Interzone Arts Festival 2016. It also secured the Trophy for the Best Women's College and the award for the best female actor the same year.
- The heavy rush of students seeking admission in the college each year is proof of the fact that the college is reckoned as an institution that provides the best in higher education to empower women.

#### *6. Problems Encountered and Resources Required*

The college does not accept any donation either for admission or employment of staff. Consequently, the dependence on the government and other agencies for funding is very high.

The social pressure on young girls to settle into domestic life at an early age poses difficulties in the successful implementation of the women empowerment programmes.

### **Best Practice II**

#### *1. Title of the Practice*

#### Learning through Service

#### *2. Goal*

With its programme of Learning through Service, the college aims to live up to its vision of the holistic development of the individual, and to inculcate among the students love and concern for their fellow human beings. Social Service is thus an integral part of the curriculum. Each department seeks to conscientize its students with community-oriented extension activities appropriate to the subject of study. The NSS, NCC and CSS volunteers participate in all the schemes designed by the college for community welfare and thus become a part of many a nation building activity. The extension activities of the college provide the students with ample opportunities to mingle with the elderly, underprivileged and marginalized sections of the society. This humane approach moulds them as dutiful, empathetic and responsible citizens.

#### *3. The Context*

The special mission of the Apostolic Carmel Congregation, the religious order that runs the college, is the service of humanity through education. This noble ideal is enshrined in the constitution of all the institutions run by the congregation. From its very inception, therefore, the college adopted a curriculum that made social service an integral part of the learning process. Well before the NSS Units began functioning in the college, and much ahead of the Compulsory Social Service (CSS) programme of the University of Calicut, the college had developed its own plan and channels for social service. The Village Facilitation Centre of the college promotes the extension of the services of the staff and students to diverse fields.

### *The Practice*

- The college has adopted the Vengeri Village and has been carrying out various activities there. Each department organises a programme suitable to the subject of study, and these range from Remedial teaching to Organic farming, Water analysis and Energy conservation. The Residents' Association of the village is a dynamic body, and it works in close association with the various departments of the college.
- A major extension activity of the college is the Mother Veronica Housing Scheme that involves the construction of houses for the needy students, an initiative launched during the Diamond Jubilee celebrations of the college in 2012. The first house for a deserving student was built in 2012 by means of funds raised by the students through the sale of raffle tickets. Staff and students of the college contributed generously towards this noble cause and an amount of Rs. 3,00,000 was collected. In subsequent years, applications were invited from students who needed financial aid to construct houses. The college invites tenders from engineering contractors and supervises the construction work until its completion. The college has thus constructed four houses for the homeless during the last five years.
- A socio economic health survey was conducted at Santhinagar Colony, Ward no: 67 of Kozhikode Corporation. The total number of houses surveyed was 263 and one of the most disappointing features was lack of proper waste management. The surroundings of the colony were in a severely unhygienic condition due to improper waste disposal. Finance was raised to set up pipe-composting facilities here. It was realised by the students who sacrificed a meal during Onam and Christmas under the Miss a meal programme. NSS volunteers fixed 40 pipe compost units in the colony. Financial aid was also received from the MLA's fund.
- Based on another socio economic survey at a dalit colony at Nadakkave, the students could identify many problems faced by the residents. The major problem was the non-availability of clean drinking water, though they had two wells. The volunteers cleaned the wells by removing the waste comprising old clothes, plastic items and old television sets. Later the water was taken to CWRDM for quality analysis. The residents now have a good source of clean drinking water.

- The extension activities of the college keep the students in touch with environment issues of the locality and make them sensitive to the sustainable use of natural resources. One such novel project was the Check Dam construction across the river Cherupuzha at Chethukadvu in Kozhikode. The NSS volunteers of the college, realising the climatic changes and the imminent drought conditions of the area, earnestly participated in a mission that would enable the water table in the locality to rise and thus provide a permanent solution to the water scarcity there. The check dam construction began on 19<sup>th</sup> December 2015 with 100 NSS volunteers and many more students of the college. At the beginning of the work the depth of the river was approximately 20 metres and the width, approximately 30 metres. The volunteers filled 2000 bags with sand and these were laid across the river with dimensions of about 1 meter height, 30 metres length and 1 meter width. The students braved all the odds and embarked on this adventurous and risk-prone mission with much enthusiasm and determination. As a result of their hard work, the surrounding area now has a steady source of water for thousands of people who do not have to spend hours walking and queuing up to fetch water any longer. It also prevents the sand erosion that threatened the strength of the road bridge in the area. Sand dams transform the environment as the stored water raises the water table level both upstream and downstream from the dams. As the aquifer increases in size, wells and boreholes have more water and springs may return to the area. The higher water table increases the natural vegetation. Indigenous trees and plants, birds and fish return to the restored ecosystem. Bio-diversity increases significantly as the river bed, banks and water catchment area are replenished. Increased bio-diversity makes it possible for community members to create a sustainable livelihood in harmony with their environment.
- Students have now undertaken a project of vital importance to Calicut city – Clean Mananchira. This initiative, in collaboration with Niravu Residents’ Association, takes up the periodic cleaning of the Mananchira Pond, the major source of drinking water to the city.
- Students from different disciplines were trained to make LED lamps to spread the message of conserving energy.
- The college has formed a *Haritha Sena* (Green Brigade) that is available for the ‘Go Green’ initiatives and cleaning drives in the district. The unit has become an integral part of major events organized in the city, like the National Athletic Meet, National Science Festival and the Global Ayurveda Meet held in 2015.
- Organic farming initiatives of the college provide fresh supply of pesticide-free vegetables and develop interest in agriculture
- Anti plastic drive at the District Collectorate attracted the attention of the bureaucrats and public alike. The volunteers were able to convey the message of saving our planet by saying no to plastic to the employees there.
- The students of English Department do voluntary work in SUMAN, a rehabilitation centre for mentally challenged women. Products crafted by the inmates are sold by the students regularly.

- Many students are involved in the activities of the Pain and Palliative Care Unit of Kozhikode. They raise funds for the Institute of Palliative Medicine, and also organize exhibitions of the products manufactured by the inmates, in the college.

### *Evidence of Success*

The NSS units and office bearers of the college secured the State and University awards in 2015 and 2016. A good number of NCC students get selected for the national integration camps held in various parts of the country every year. From the feedback received from various corners and as reported by the print and visual media, the service activities of the college are greatly applauded. Elected members of various bodies, ministers, political parties and local people wholeheartedly support all the endeavours of the students, and often seek the participation of the college in their activities. Residents' Associations also seek cooperation from the college in many of their projects. The holistic development which the college highlights in its vision is accomplished to a large extent with these activities.

### *Problems Encountered and Resources Required*

Financial constraints have always been a major challenge for the college in all the extension activities done so far. The volunteers had to find ways to resolve the cash crunch that they faced during various occasions in spite of all the support extended by the management, staff and students. Another major problem that they encountered was the physical exertion involved in projects like the Check dam construction and setting up of pipe composts units. Students had to sacrifice the comfort and security of their homes for many days in strange and new surroundings, but nothing could undermine their determination to complete the tasks entrusted to them. Such experiences metamorphose them into fine individuals, emotionally and psychologically fit to take on the world.

*Any other information that may be relevant and important to the reader for adopting/ implementing the Best Practice in their institution (about 150 words)*

Education is a noble process that involves the all-round development of the individual. It is a complex, many-sided, inclusive and dynamic process that does not begin or end in the classrooms and text books. By providing quality education for women, the college has played a very important role in creating an inclusive, gender-sensitive society that treats women on par with men. The policy of Learning through Service adopted by the college is the need of the hour in the world that we live in today. At a time when even the

most educated youth get misguided and led astray to engage in anti social and inhuman activities, a curriculum that incorporates social service can do much to enable the youth to give their best to the world. The precious human resource potential in the younger generation needs to be tapped and channelized well for posterity. Students, engaged as they are in so many avenues of service to humanity, are making the best use of the education received in this college to spread far the message enshrined in the college motto: In Thy Light We See Light.

## POST ACCREDITATION INITIATIVES

Providence Women's College, Calicut has undergone two cycles of assessment and accreditation by the National Assessment and Accreditation Council – in 2004 and 2011. The process of accreditation has enabled the college to seek higher goals and set new targets in the stride towards quality improvement and excellence. Guided by the recommendations for quality enhancements made by the NAAC Peer Teams, the post-accreditation phases have also witnessed the all-round growth of the college.

The major developments of the post-accreditation period from 2011-16 are the following:

- Status of College with Potential for Excellence granted by the UGC in April 2016.
- Support from the Department of Science and Technology under FIST
- Research Centre in the Department of Physics approved by the University of Calicut
- Women Scientist Programme of DST launched in the college
- Appointment of 15 permanent faculty and 5 supporting staff
- Three faculty members awarded Ph.D., one granted Research Guideship.
- Four new PG Programmes and one new UG Programme.
- International History Conference funded by the ICHR and KSHEC
- 8 National Level and 5 State level seminars with external funding
- National level training programme in collaboration with APT (Association of Physics Teachers)
- 12 externally funded Research Projects.
- Construction of a new PG Block.
- UGC Community College Course in Jewellery Designing
- Two new ancillary courses - Certificate in Computer Hardware Maintenance and Diploma in Foundations of Travel and Tourism offered by IATA
- Certificate Course in Film Making and the production of two films
- Reconstitution of IQAC with more number of External members for consultation.
- Development of computerized mechanism for student feedback by the Computer Science Department.
- Office automation initiated
- Training partner with the Govt. of Kerala in innovative programmes like the Additional Skills Acquisition Programme,

Walk With the Scholar, Scholar Support Programme, Kerala State IT Mission, Jalarjee and Bhoomithrasena

- Kerala State and Calicut University awards for the best NSS Unit, best Vounteer and best NSS coordinators for two consecutive years.
- Registered status for the ED Club under District Industries Centre, Government of Kerala
- Women's Film Festival.
- Participation of students in Asian Games and major National level sports and games
- Addition of a Cricket Pitch and Tennis Court.
- Establishment of Village Facilitation Centre
- Diversification of Village Adoption Programme.
- Adoption of Residential Colonies
- Prioritizing Environmental awareness in the curriculum
- Strengthening of Career Guidance and Placement facilities and the organization of a Mega Job Fair on the campus.
- Coaching for Civil Services Exams, PSC exams and Bank tests
- Construction of three houses for needy students under the Diamond Jubilee Housing Scheme
- Outreach activities of the Women's Cell to provide self-employment opportunities to women of the college neighbourhood.
- Counselling facilities with the appointment of a trained counsellor

The college has benefitted immensely from the Peer Team visit of the previous cycle of accreditation. The recommendations of the team were discussed at length in the meetings of the MGB, the IQAC, CDS, PTA and Staff and Student Councils. Appropriate action was taken on each one of the recommendations.

The following were the recommendations made by the NAAC Peer Team, and the action taken correspondingly.

1. Programme options in P.G. may be enhanced to include conventional as well as interdisciplinary courses.

The college got the Government sanction to offer five new courses during the last post-accreditation period. The courses are M.Sc. Botany, M.Sc. Computer Science, M.Sc. Mathematics, M.Com. and B.Sc. Psychology. These courses offer a fine combination of conventional and new-generation subjects. The syllabus of each of the PG Courses has strong interdisciplinary content with elective papers that have great contemporary relevance.



2. Initiate professional career oriented courses like BCA, MBA and MCA.

There are several restrictions on Arts and Science colleges in offering professional career oriented courses like BCA, MBA and MCA. In the event of the University and Government norms being amended in this matter, the college plans to expand into the area of such courses. The new M.Sc. Computer Science Programme was launched in response to this recommendation made by the Peer Team.

3. Strengthen placement cell to achieve placement record commensurate with intake

The Career Guidance and Placement Cell of the college has been expanded and strengthened. The Cell has two nodal officers in charge, and a core team consisting of representatives from each department. The Cell works in collaboration with Companies and reputed Recruiting Agencies, and organizes mega job fairs. 190 students have been employed through campus placement during the last five years.

The college also offers coaching for Civil Services exams, PSC exams and Bank tests in collaboration with leading Training centres. Career Guidance sessions are organized periodically, as are training sessions for Interviews and Group Discussions. Each new batch of students is given a thorough orientation to career opportunities in each course of study.

4. Structure and strengthen the IQAC for effective functioning

The IQAC was restructured in the year 2011, soon after the accreditation by NAAC. Apart from the Principal and the members of the staff, two new external members were inducted:

Dr. Saji Gopinath, Dean, Indian Institute of Management Kozhikode, and

Dr. Sailas Benjamin, Director, Directorate of Research, University of Calicut.

They advised the IQAC on effective feedback mechanism and improving the research activities and facilities of the college. They were the resource persons at two Quality Improvement Seminars organised by the IQAC.

On the completion of four years, the IQAC was restructured again in 2015. Currently, the external members are

Dr. Jose T Puthur (Director, Directorate of Admissions, University of Calicut)

Dr. Mohanachandran (Industrialist)

Mr. Babu Parambath (Environmental activist)

Ms. Sandhya Bhaskar (Chartered Accountant and Alumna).

They advise the IQAC on various quality improvement strategies to be implemented.

5. Procure a few MoUs to impart practical training and enhance employability of students.

The college has signed MoUs with the following organisations:

- District Industries Centre, Govt. of Kerala – for the enhanced functioning of the ED Club of the college.
  - Kerala Folklore Academy, Govt. of Kerala – to share the expertise of scholars and performing artistes for innovative teaching and learning of History.
  - Malabar Gold – for practical sessions and training for the course in Jewellery Designing.
6. Offer some region-specific add on courses and some skill based courses to enable students to become self-supporting entrepreneurs.

The college has intensified the effort to offer skill based courses not only to the students, but to the women of the college neighbourhood also.

- The College now offers a UGC aided Community College course in Jewellery Designing.
- The college is a Training partner with the Government of Kerala in the Additional Skills Acquisition Programme, which offers training in Communicative English, IT and various Skill based courses, to improve the employability of the students.
- The Women's Cell of the college offers training in various arts and crafts like book binding, tailoring, jewellery making, and the manufacture of soft toys and umbrellas, for the benefit of the women residing in the college neighbourhood.
- The EDP Unit of the college offers training in various skills to give the students better prospects for self-employment.

7. Upgrade some PG departments into research centers

The Physics Department is now a recognized Research Centre of the University of Calicut. The Department is also a Research Centre for the Women Scientist Programme of DST. Dr. Jeena Karunakaran is a Research Guide.

Dr. Mino Divakaran of the Botany Department and Dr. Sreekumari of the Malayalam Department are approved Research Guides of Calicut University and Kerala University.

8. A separate P.G.Block to accommodate all PG Courses

A new block with a built up area of 2061.49 square feet was added to house the new PG courses. The work on the four-floor building commenced in January 2013 and was completed in a record period of one year. The venture was accomplished with generous contributions made by the well-wishers and stakeholders of the institution – the management, staff and students, retired staff, parents

and alumnae. The building was planned to accommodate the PG courses, but there were major logistic problems in shifting the laboratories to the new building. Hence the building now houses the Self Financing Courses, and the rooms for some common classes. This has resulted in adequate space in the old blocks for the development of the PG Courses.

9. Strive for autonomous status

The Government of Kerala granted sanction for Arts and Science colleges to opt for academic autonomy in the year 2013. The College applied for it during the first year. However, Autonomous status was granted only to colleges that had an accreditation score of 3.5 or above. The college then decided to give priority to getting the status of a College with Potential for Excellence. The proposal for the same was submitted, and the UGC approved it in April, 2016. The college will mobilize all its resources to strive for further excellence in every field.

10. Provide training in Self Management and Personal counselling to the students to withstand the stress and the strain of adolescence.

The college accords much importance to mentoring and counselling, both of which are carried out well with the Tutorial system and the Value Education component of the curriculum. In addition, the college has appointed a trained counsellor who is available to guide the students and help them overcome the stress and strain of adolescence.

Each new batch of students is given an intensive Orientation Course which prepares the newcomers for the challenges of college life, and helps them live up to their full potential as vibrant youth.

Life Guidance Seminars are organized annually for each batch of Final Year students.

The College is committed to pursuing the quest for quality and excellence in all the endeavours, so as to make Women Empowerment through Education a living reality. We place on record our gratitude to the Peer Teams of the earlier cycles of Accreditation for their valuable suggestions and recommendations, and look forward to the suggestions of the Peer Team for the third cycle of accreditation.

# Providence Women's College

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E-mail : providencecollegecalicut@gmail.com  
Website : www.providencecollegecalicut.com



CARMEL HILL  
MALAPARAMBA P.O.  
CALICUT - 673 009

## Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the Peer Team visit.

Place: Calicut, Kerala

Date: 11.08.2016




Signature of the Head of the Institution  
with seal:

Principal  
Providence Women's College  
Calicut - 9

# **ENCLOSURES**

# Enclosure 1

## CERTIFICATE OF MINORITY INSTITUTION

  
भारत सरकार  
राष्ट्रीय अल्पसंख्यक शैक्षणिक संस्था आयोग  
GOVERNMENT OF INDIA  
NATIONAL COMMISSION FOR MINORITY EDUCATIONAL INSTITUTIONS

प्रथम तल, जीवन तारा भवन, पृ. संसद मार्ग  
पटेल चौक, नई दिल्ली - ११०००५  
1st Floor, Jeevan Tara Building, 5, Sansad Marg  
Patel Chowk, New Delhi - 110001


13.	F. No. 661 of 2009	L.S.N. Girl's Higher Secondary School, Ottapalam, Ottapalam P.O., Dt. Palakkad, Kerala.
14.	F. No. 664 of 2009	Providence Women's College, Malaparamba P.O., Dt. Kozhikode, Kerala.

MANAGED BY THE APOSTOLIC CARMEL EDUCATION SOCIETY OF KOZHIKODE, ARE MINORITY EDUCATIONAL INSTITUTIONS WITHIN THE MEANING OF SECTION 2(g) OF THE NATIONAL COMMISSION FOR MINORITY EDUCATIONAL INSTITUTIONS ACT 2004. CONSEQUENTLY, IT IS HEREBY DECLARED THAT THE AFORESAID INSTITUTIONS ARE MINORITY EDUCATIONAL INSTITUTIONS COVERED UNDER ARTICLE 30 OF THE CONSTITUTION OF INDIA.

GIVEN UNDER MY HAND AND THE SEAL OF THE COMMISSION ON THIS 30<sup>TH</sup> DAY OF JULY, 2010.

  
(R. RENGANATH)  
SECRETARY

रुपिण्ड Secretary  
राष्ट्रीय अल्पसंख्यक शैक्षणिक संस्था आयोग  
National Commission For  
Minority Educational Institutions  
भारत सरकार, नई दिल्ली  
Govt. of India, New Delhi

  
Delhi


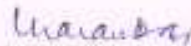


GANESHAN, M.K.  
PRINCIPAL  
CONT. MODEL HIGHER SECONDARY SCHOOL  
KOZHIKODE

  
Code: 10000  
Kozhikode

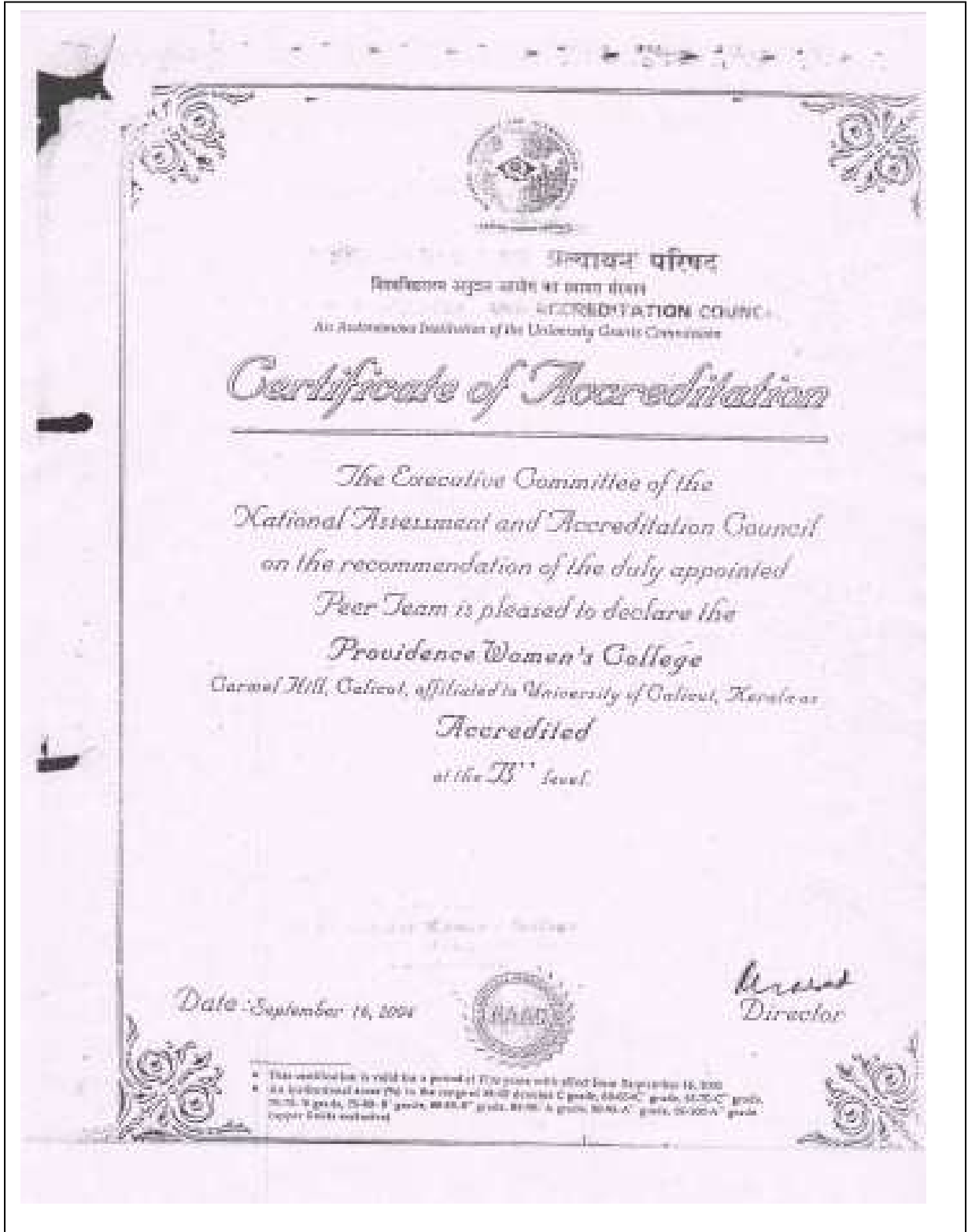
# Enclosure 2

## CERTIFICATE OF RECOGNITION U/S 2(F) AND 12 (B) OF THE UGC ACT

<p>Ph: 23236351, 23232701, 23237721 23234116, 23235733, 23232317 23236735, 23239437, 23239627</p> <p>Extension No. 413 (CPP-I Colleges) UGC Website: <a href="http://www.ugc.ac.in">www.ugc.ac.in</a> F. No. 8-63/2014(CPP-I/C)</p>	 <p>Speed post</p>	<p>विश्वविद्यालय अनुदान आयोग बहादुरशाह जफर मार्ग नई दिल्ली-110 002 UNIVERSITY GRANTS COMMISSION BAHADUR SHAH ZAFAR MARG NEW DELHI-110 002</p> <p>June, 2015</p>
<p>The Principal, Providence Women's College, Malaparamba P.O., Calicut - 673 009 Kerala</p>		
<p>24 JUN 2015</p>		
<p><b>Sub: - Recognition of Providence Women's College, Malaparamba, Dist. Calicut-673 009, Kerala under Section 2(f) and 12(B) of the UGC Act, 1956.</b></p>		
<p>Sir,</p>		
<p>With reference to your letter dated 19-06-2015 on the above subject, I am directed to say that the name of Providence Women's College, Malaparamba, Dist. Calicut- 673 009, Kerala established in the year of 1952, affiliated to Calicut University, Kozhikode is included in the list of Colleges maintained under Section 2(f) and 12(B) of the UGC Act, 1956 under the head Non-Government College teaching upto Bachelor's Degree.</p>		
<p>Yours faithfully,  (Charan Dass) Under Secretary</p>		

# Enclosure 3

## CYCLE 1 : ACCREDITATION





# Quality Profile

Department of Education  
 Council for Higher Education  
 Council for Quality Assurance  
 Quality Improvement Process of Learning  
 Council for Higher Education, Cape Town, 2016

Criteria	Criteria Score (CS)	Weightage (W)	Criteria X Weightage (CS X W)
I. Curricular Aspects	80	10	800
II. Teaching-learning and Evaluation	84	11	924
III. Research, Consultancy and Extension	70	05	350
IV. Infrastructure and Learning Resources	90	15	1350
V. Student Support and Progression	58	10	580
VI. Organisation and Management	86	10	860
VII. Healthy Practices	85	10	850
		100	ΣC <sub>i</sub> W <sub>i</sub> = 5314

$$\text{Institutional Score} = \frac{\sum C_i W_i}{\sum W_i} = \frac{5314}{100} = 53.14$$

*[Signature]*  
 Director

# Enclosure 4

## CYCLE 2 : ACCREDITATION





# राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का प्राथम संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

As Autonomous Institution of the University Grants Commission

## Quality Profile

Name of the Institution : Providence Women's College

Place : Malaparamba, Calicut, Kerala

Criteria	Weightage (W <sub>i</sub> )	Criterion-Wise Grade Point Averages (Cr. GPA)	W <sub>i</sub> X Cr. GPA
I. Curricular Aspects	050	3.00	150
II. Teaching-Learning and Evaluation	450	3.00	1350
III. Research, Consultancy and Extension	100	3.20	320
IV. Infrastructure and Learning Resources	100	3.40	340
V. Student Support and Progression	100	3.30	330
VI. Governance and Leadership	150	3.23	485
VII. Innovatize Practices	050	1.60	130
Total	$\sum_{i=1}^7 W_i = 1000$		$\sum_{i=1}^7 W_i \times Cr. GPA = 3105$

$$\text{Institutional Score} = \frac{\sum_{i=1}^7 W_i \times Cr. GPA}{\sum_{i=1}^7 W_i} = \frac{3105}{1000} = \boxed{3.11}$$

Grade = **A**

Descriptor = **VERY GOOD**

Date : September 16, 2011



*H. Ramesh*  
Director



- This certification is valid for a period of five years with effect from September 16, 2011
- An Institutional CGPA on four point scale in the range of 0.01 - 4.00 denotes A grade (Very Good), 3.01 - 3.00 denotes B grade (Good), 1.01 - 2.00 denotes C grade (Satisfactory)
- Scores rounded off to the nearest integer

BC/14/RAA/177



# Enclosure 5

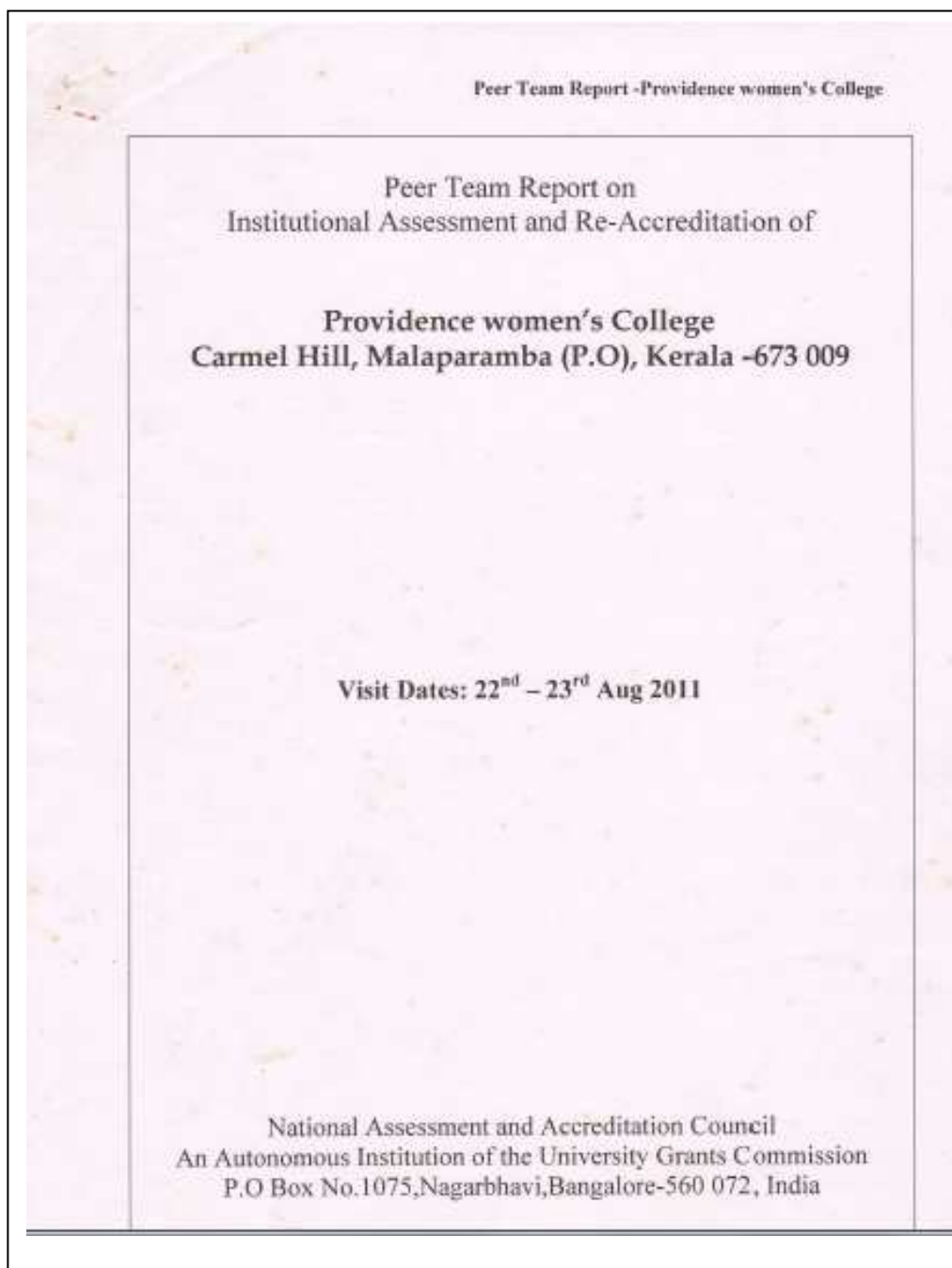
## CYCLE 1 : PEER TEAM REPORT

The peer team would like to commend the college for its following positive inputs:

- Encouragement and total support offered by the management
- Able leadership of the principal, cooperation of the committed staff and the enthusiastic participation of the students which is reflected through the team spirit in all the activities of the institution
- Good governance, consistently high academic records including university ranks, quality education with the component of moral education and introduction of TQM concept
- Adequate infrastructure and physical facilities to run all the existing courses
- Institutional initiative in arranging for 25 different types of scholarships to students.
- Conducting series of Co curricular activities in association with research institutes, GO's and NGO's.
- Exemplary service of 'Blood donor's forum', which not only conducts blood donation camps but also arranges awareness programmes.
- Encouragement for sports and games through providing infrastructural facilities, Training and free boarding and lodging. During the last five years college has produced three international players and fortyone national players. The college has in its alumnae the star athletes of the nation and Arjuna awardees like P.T.Usha, and Sally Joseph, eight other international players and many national players
- The involvement of Alumnae and PTA in the institutional development
- Introduction of add on courses like diploma and five certificate courses along with UG and PG programmes.
- Systematic feed back mechanism on a three-tier basis and prompt action on that.

# **Enclosure 6**

## **CYCLE 2 : PEER TEAM REPORT**



Peer Team Report -Providence women's College

PEER TEAM REPORT ON  
Institutional Re-Accreditation of Providence women's College  
Carmel Hill, Malaparamba (P.O), Kerala -673009

Section I: GENERAL	Information
1.1 Name & Address of the Institution:	Providence women's College Carmel Hill, Malaparamba (P.O), Kerala -673 009
1.2 Year of Establishment:	1952
1.3 Current Academic Activities at the Institution (Numbers):	
• Faculties/ Schools:	Arts, Science, Commerce and Business administration
• Departments/ Centres:	Science-06, Arts-3, Commerce-02, Travel and Tourism-01
• Programmes/ Courses offered:	PG-2, UG-12, Research - - others-11
• Permanent Faculty Members:	43 filled out of 48 sanctioned
• Permanent Support Staff:	22 filled out of 25 sanctioned
• Students:	U.G 1033, P.G 40
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	<ul style="list-style-type: none"> <li>• Grant-in-aid, first minority Women's college affiliated to University of Calicut</li> <li>• College with rich heritage of six decades doing yeoman service for women education and women empowerment</li> <li>• Alumni include two Arjuna Awardees and twenty International sports women.</li> </ul>
1.5 Date of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	22-08-2011 to 23-08-2011
1.6 Composition of the Peer Team which undertook the on- site visit:	
Chairman	Dr. Cynthia Prudhan Furnee V. C, Manonmaniam Sundaranar University, "Porumai" G-77, Anna Nagar, Chennai-600 102
Member	Prof. S. Kumudhavalli Principal, Smt. P. N. Doshi women's College, Cama Lane, Ghatkopar(W), Mumbai-400 066
Member-Coordinator	Prof. A. V. Prasad Rao Chairman, Faculty of Science, Andhra University Visakhapatnam-530 003
NAAC Officer	Dr. Jagannath Patil

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Peer Team Report -Providence women's College

Section II: Criterion wise Analysis	Observations (Strengths and/or weaknesses) on Key Aspects
<b>2.1 Curricular Aspects:</b>	
2.1.1 Curricular Design & Development:	<ul style="list-style-type: none"> <li>Follows curriculum prescribed by the University of Calicut</li> <li>Vision and mission of the institute displayed prominently</li> </ul>
2.1.2 Academic Flexibility	<ul style="list-style-type: none"> <li>Offers 12 U.G and 1 P.G programs of which 3 U.G programs are in self finance stream.</li> <li>Limited academic flexibility as per university norms</li> <li>All programs offered in semester system</li> </ul>
2.1.3 Feedback on Curriculum	<ul style="list-style-type: none"> <li>Feedback on curriculum collected from students in the form of questionnaire, and informally from Parents, Alumni, Academic peers and employers</li> <li>A few faculty members serving in different Boards of studies convey suggestions for improvement</li> </ul>
2.1.4. Curriculum Update	<ul style="list-style-type: none"> <li>Affiliating University updates syllabi periodically for every three years</li> <li>Latest revision was in 2009</li> </ul>
2.1.5 Best Practices in Curricular Aspects (If any):	<ul style="list-style-type: none"> <li>Offering of 5 add on courses</li> </ul>
<b>2.2 Teaching-Learning &amp; Evaluation:</b>	
2.2.1 Admission Process and Student Profile	<ul style="list-style-type: none"> <li>Admission notification published through regional news papers, college prospectus and website</li> <li>Admissions for all courses processed as per University norms and State Government rules in vogue</li> <li>Admission committee ensures transparency in admission process</li> </ul>
2.2.2 Catering to the Diverse Needs:	<ul style="list-style-type: none"> <li>Slow and advanced learners identified through class tests and by interaction in lecture sessions</li> <li>Remedial classes conducted for slow learners</li> <li>Mentoring and Tutor-ward system in existence</li> </ul>

*Chandras*

**Peer Team Report -Providence women's College**

2.2.3 Teaching-Learning process	<ul style="list-style-type: none"> <li>• Predominantly lecture method followed, supplemented by educational tours , projects, Quiz programs and Seminars.</li> <li>• Use of modern teaching aids encouraged in student presentations</li> <li>• Student evaluation of teachers collected</li> </ul>
2.2.4 Teacher Quality:	<ul style="list-style-type: none"> <li>• Out of 42 permanent teachers, 18 Ph.D awardees, 11 M.Phil awardees</li> <li>• Recruitment of additional faculty is as per State Govt. norms and university regulations</li> <li>• 3 Faculty members deputed for FDP in the last five years</li> </ul>
2.2.5 Evaluation Process and Reforms:	<ul style="list-style-type: none"> <li>• Evaluation process informed to students at the beginning of academic year</li> <li>• Students' progress communicated to parents during departmental PTA meetings</li> <li>• Evaluation for 25% Internal assessment done by the college</li> </ul>
2.2.6 Best Practices in Teaching-Learning and Evaluation (If any):	<ul style="list-style-type: none"> <li>• Conduct of Bridge courses</li> </ul>
<b>2.3 Research, Consultancy &amp; Extension</b>	
2.3.1 Promotion of Research:	<ul style="list-style-type: none"> <li>• Institutional budget makes provision for research developmental activities</li> <li>• Research and Development Council formed to monitor and promote research activities</li> <li>• Materials Research lab and Taxonomy research lab developed on campus</li> </ul>
2.3.2 Research and Publications Output:	<ul style="list-style-type: none"> <li>• No department recognized as research centre . Two faculty members recognized as guides to other Universities.</li> <li>• 2 major and 7 minor on going Research projects, 2 major and 8 minor research projects completed</li> <li>• Faculty published 17 papers in refereed journals at national level and 15 at international level during last five years</li> </ul>
2.3.3 Consultancy:	<ul style="list-style-type: none"> <li>• Non-remunerative informal consultancy at individual faculty level</li> <li>• Structured consultancy yet to be initiated</li> </ul>
2.3.4 Extension Activities:	<ul style="list-style-type: none"> <li>• 1 NCC and 2 NSS units- in operation.</li> <li>• Conducted 20 extension programs in the last two years</li> <li>• College adopted a nearby village under Mother Veronica project</li> </ul>
2.3.5 Collaborations:	<ul style="list-style-type: none"> <li>• Structured collaboration yet to be</li> </ul>

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*Chandana*



**Peer Team Report -Providence women's College**

	<ul style="list-style-type: none"> <li>institutionalised</li> <li>College established some linkages with NGOs for extension activities to benefit local community</li> </ul>
2.3.6 Best Practices in Research, Consultancy & Extension (If any):	<ul style="list-style-type: none"> <li>Publication of research journal "DICTIMA'S" by English department</li> </ul>
<b>2.4 Infrastructure and Learning Resources:</b>	
2.4.1 Physical Facilities for Learning:	<ul style="list-style-type: none"> <li>College located in a campus area of 37 acres with built up area of 12,000sq. mts housing class rooms, laboratories, library, administrative offices, seminar hall, auditorium and indoor stadium for academic, curricular and extra curricular activities</li> <li>About 80 lakhs spent for infrastructure augmentation in last five years to keep pace with academic growth</li> <li>Adequate facilities like common room and rest room for women also available</li> </ul>
2.4.2 Maintenance of Infrastructure:	<ul style="list-style-type: none"> <li>Separate budget allocation exists for Maintenance of infrastructure</li> <li>Computers are maintained through AMC</li> </ul>
2.4.3 Library as a Learning Resources	<ul style="list-style-type: none"> <li>Partially automated central library containing 40,148 titles, 53,893 text books, 25 journals</li> <li>INFLIBNET facility made available recently.</li> <li>Broad band internet facility with three nodes and reprographic facilities available</li> </ul>
2.4.4 ICT as Learning Resources:	<ul style="list-style-type: none"> <li>A total of 122 computers available in the college</li> <li>LAN facility available in computer science and multimedia laboratories</li> <li>Institutional website in place</li> </ul>
2.4.5 Other Facilities:	<ul style="list-style-type: none"> <li>Hostel accommodation, Sports fields, Gymnasium, Canteen, Women's rest room available</li> <li>Departmental museums for History and Zoology</li> </ul>
2.4.6 Best Practices in the development of Infrastructure and Learning Resources (If any):	<ul style="list-style-type: none"> <li>Well maintained campus with good ambience</li> <li>Digital resources in the library</li> </ul>

**Peer Team Report -Providence women's College**

<b>2.5 Student Support and Progression</b>	
<b>2.5.1 Student Progression:</b>	<ul style="list-style-type: none"> <li>• Socio economic profile of students indicate about 15% S.C, 1 - 2% S.T and 20% O.B.C students</li> <li>• Academic performance in terms of pass percentage is good</li> <li>• 80% of students go to higher studies</li> </ul>
<b>2.5.2 Student Support:</b>	<ul style="list-style-type: none"> <li>• Career guidance cell, placement cell, Grievance redressal cell established</li> <li>• College publishes updated prospectus every year</li> <li>• College provides 92 scholarships under different heads to needy students from economically weaker sections</li> </ul>
<b>2.5.3 Student Activities:</b>	<ul style="list-style-type: none"> <li>• Functional Alumni association exists</li> <li>• Student participation in several sports and cultural events at the inter collegiate level is visible</li> <li>• Elected Student Council operates as per regulations</li> </ul>
<b>2.5.4 Best Practices in Student Support and Progression (If any):</b>	<ul style="list-style-type: none"> <li>• Implementation of Learn and earn program in the department of Botany</li> <li>• Formation of different Clubs in English Department</li> </ul>
<b>2.6 Governance and Leadership:</b>	
<b>2.6.1 Institutional Vision and Leadership:</b>	<ul style="list-style-type: none"> <li>• Vision and mission of the institute in tune with the Higher education policies</li> <li>• Management collects feed back from all sections of stake holders for review and development of short range and long range plans</li> <li>• Management committed for effective teaching- learning processes</li> </ul>
<b>2.6.2 Organizational Arrangements:</b>	<ul style="list-style-type: none"> <li>• Organizational structure is as per norms. Managing Governing Body is the main administrative body that serves as a liaison between college and Manager</li> <li>• Grievance redressal cell for employees yet to be established</li> <li>• No feedback analysis mechanism</li> </ul>
<b>2.6.3 Strategy Development and Deployment:</b>	<ul style="list-style-type: none"> <li>• Staff council, PTA, College Development Society etc. constituted for decentralization and effective functioning</li> <li>• Academic plan prepared in advance in consultation with teachers</li> <li>• Long range perspective plan for future developmental activities yet to be</li> </ul>

Peer Team Report -Providence women's College

	evolved
2.6.4 Human Resource Management:	<ul style="list-style-type: none"> <li>• Self appraisal of teachers and student evaluation of teachers obtained</li> <li>• Faculty development program is in implantation</li> <li>• Recruitment of faculty by management as per norms</li> </ul>
2.6.5 Financial Management and Resource Mobilization:	<ul style="list-style-type: none"> <li>• College receives budgetary grant from State government and developmental grants from UGC, PTA fund and self finance course fee</li> <li>• Financial management system partially computerised</li> <li>• Annual internal and external audit in place.</li> </ul>
2.6.6 Best Practices in Governance and Leadership (If any):	<ul style="list-style-type: none"> <li>• Interest free loans to non teaching staff</li> <li>• Payment of advance when salary is delayed</li> </ul>
2.7 Innovative Practices:	
2.7.1 Internal Quality Assurance System:	<ul style="list-style-type: none"> <li>• IQAC needs to be structured</li> <li>• Conducted frontier lecture series on quality enhancement in post accreditation period</li> </ul>
2.7.2 Inclusive Practices:	<ul style="list-style-type: none"> <li>• Mechanism for recording incremental academic growth of students from disadvantaged communities to be formulated.</li> <li>• Intervention strategies to promote overall development from rural and tribal sections need to be thought of</li> <li>• College development fund and PTA fund waived for students from economically weaker sections</li> </ul>
2.7.3 Stakeholder Relationships:	<ul style="list-style-type: none"> <li>• Good social perception of all stake holders on the college performance</li> <li>• College Development Society formed with significant Stakeholders representation</li> </ul>

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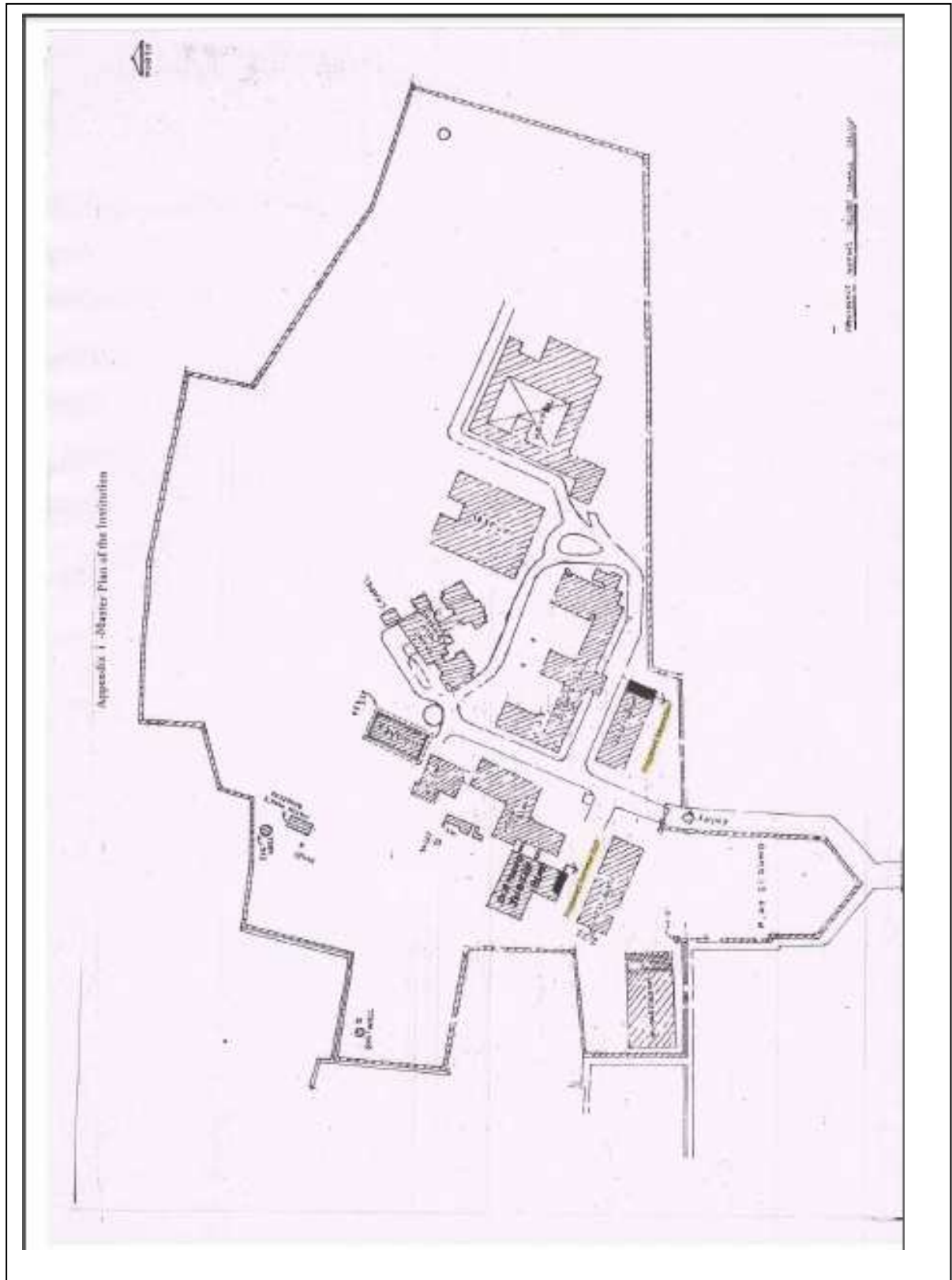
Peer Team Report -Providence women's College-

Section III: OVERALL ANALYSIS	Observations (Please limit to five major ones for each and use telegraphic language) (It is not necessary to denote all the five bullets for each)
3.1 Institutional Strengths:	<ul style="list-style-type: none"> <li>• Grant in aid college with a good social reputation</li> <li>• Good academic performance in terms of pass percentage</li> <li>• Dedicated and Proactive management committed to effective teaching and learning</li> <li>• Good stake holder relationship</li> </ul>
3.2 Institutional Weaknesses:	<ul style="list-style-type: none"> <li>• Limited number of program options in P.G</li> <li>• Lack of career oriented professional courses</li> <li>• Unfilled sanctioned faculty positions</li> <li>• Lack of suitable add on courses to develop entrepreneurship</li> </ul>
3.3 Institutional Opportunities:	<ul style="list-style-type: none"> <li>• Availability of plenty of land for future developmental activities</li> <li>• Functional alumni</li> <li>• Starting of more program options in U.G courses</li> <li>• Augmentation of F. D. P utilization</li> </ul>
3.4 Institutional Challenges:	<ul style="list-style-type: none"> <li>• To motivate all faculty members to acquire Ph.D's and inculcate research culture</li> <li>• To procure more MOUs for collaboration and linkages with institutions and industries of good repute for student training and placement</li> <li>• To strive for more funded research projects from different agencies</li> <li>• To attain autonomous status to the college.</li> </ul>

*claudias*

# Enclosure 7

## MASTER PLAN OF THE INSTITUTION



# Enclosure 8

## AUDITED ACCOUNTS STATEMENTS

PROVIDENCE WOMEN'S COLLEGE, CALICUT-9						
FINANCIAL STATEMENT FOR THE YEAR 2011-2012						
RECEIPTS		Rs.	Ps.	EXPENDITURE		
		Rs.	Ps.			
1	Amount Brought from the last years a/c ( H.W, UGC, Sch.Gen a/c)	27777.20		1	Teaching Staff Salary	31949234.00
	Tuition fees				" Refund to Govt.	13710.00
	Special Fees	852918.80		2	Non-Teaching Staff - Salary	4040844.00
	Caution Deposit	512047.00			" Refund to Govt.	20324.00
	Salary				Teaching Staff P.F.Advance and Closure	2434757.00
2	Income from Endowment	6000.00			Teaching Staff FBS closure and GIS closure	44443.00
3	Subscriptions and Donations				Non-Teaching Staff - PF advance and closure	878816.00
4	Actual receipts by fees:				Non-teaching staff FBS closure and GIS closure	
	a) Tuition fees	827750.00		3	Taxes	
	b) Fines	2075.00		4	Ordinary repairs and upkeep of the College	
	c) Registration	97860.00		5	Contingencies	
	d) Admission	42000.00		6	Rents - Endowments	6000.00
	e) Re-admission			7	Scholarships:	
	f) Special:-				i. University Merit Scholarship	
	i) Library, Lib.fine and sale of old newspaper	75115.00			ii. Dist.wise merit scholarship	
	Sale Tax				iii. Island scholarship	645620.00
	ii. Association	32025.00			iv. State Merit Scholarship	
	iii. Sports	96255.00			v. National Merit Scholarship	
	VAT				vi. Cine workers children Scholarship	
	iv. Laboratory	153440.00			vii. ABL, P.M&M.S to SC/ST/OEC	1369955.00
	v. Visual Education	32025.00			ABL, P.M. & M.S. Refunded to Govt. a/c	
	vi. Medical	4550.00			Scholarship amount refunded to Govt. a/c	
				8	Prizes	
	<b>C/O</b>	<b>2761838.00</b>			<b>C/O</b>	<b>*****</b>
						<b>Contd...2...</b>

	<b>B/F</b>	<b>*****</b>		<b>B/F</b>	<b>*****</b>
	vii. Magazine and Advertisement charges	44835.00	9	New Buildings	
	viii. Stationary	32025.00	10	Vocational course	
	ix. Calender	19215.00	11	Furniture	
	x. Matriculaiton	41040.00	12	Science Apparatus and materials	
	xi. Students Aid Fund	4485.00	13	Other appliances for teaching	
	xii. University Sports Affiliation	96525.00	14	Special fees:-	
	xiii. University Union	38670.00		i. Library	70376.00
	xiv. Recognition	3760.00		ii. Sports	109523.00
	xv. Grant-in-aid received for:			iii. Association	26500.00
	1. Contingency			iv. Laboratory	159436.00
	2. Maintenance			v. Medical	3300.00
	3. Library			vi. Visual Education	29798.00
	4. Laboratory			vii. Magazine	43155.00
	xvi. Scouts and Guides	6405.00		viii. Matriculation	25360.00
	xvii. Women's Study	6405.00		ix. Stationery	17414.00
				x. Calender	12000.00
5	a) Teaching Staff salary	*****		xi. Students Aid Fund	4475.00
	Salary refund to Govt.	13710.00		xii. University Union	38670.00
	Non-Teaching staff salary	4919660.00		xiii. University Sports Affiliation	96525.00
	" refund to Govt.	20324.00		xiv. Recognition	3760.00
	b) UGC.Grant	2570134.00		xv. Admission	
	Other grant received from IT mission	334000.00			
	c) Scholarships :			xvi. Registration	32620.00
	i. University Merit Scholarship			xvii. Other Items	229477.00
	ii. District wise Merit Scholarship			xviii. Scouts and Guides	6165.00
	iii. Island Scholarship	667710.00		xix. Women's Study	5315.00
	iv. National Merit Scholarship			VAT of old news paper remitted	
	<b>C/O</b>	<b>*****</b>		<b>C/O</b>	<b>*****</b>
					<b>Contd_3...</b>
			...3...		
	<b>B/F</b>	<b>*****</b>		<b>B/F</b>	<b>*****</b>
	v. State Merit Scholarship			Sports goods	
	vi. Cine workers children		15	Tuition fees and fines remitted to Govt.	829825.00
	viii. ABLC, PM, MS to SC/ST/DEC	1373340.00		Registration fees remitted to Govt.a/c	32620.00
				Registration fees given to Management	32620.00

		...3...	
B/F	*****	B/F	*****
v. State Merit Scholarship		Sports goods	
vi. Cine workers children		15 Tuition fees and fines remitted to Govt.	829825.00
viii. ABLC, PM, MS to SC/ST/OEC	1373340.00	Registration fees remitted to Govt.a/c	32620.00
		Registration fees given to Management	32620.00
		Re-Admn. Fee remitted to Govt. a/c	
6 Miscellaneous receipts:		NCC	26652.00
Caution Deposit	161160.00	Caution Deposit	141360.00
C.D Interest	25817.00	Caution Deposit Tax	
NCC	26652.00	U.G.C. Expenditure	2462484.00
		U.G.C. amt. remitted to Bank	118000.00
		Grant received from IT Mission	934000.00
		16 Provident Fund	
7 Amount borrowed from Management:		17 Outlay not falling under above head	
General Account		Amt. C/o to next year:	
UGC	10350.00	UGC	112.20
		General account	32.00
8 Other Items	362535.00	Tuition fees and fines	
		Special fees	1061713.80
		Salary	
		Scholarships	44238.00
		Harijan Welfare	8870.00
		Caution Deposit	557664.00
		Expenditure under contingencies and Maintenance borrowed from Management for the previous years returned	
<b>Grand Total</b> ---	<b>*****</b>		<b>*****</b>



