

## CMS COLLEGE, KOTTAYAM

### DEPARTMENT REPORT FORMAT

This Annual Evaluative Report of the Departments should be accompanied by a descriptive write up of the activities of the Department for the year under review. It should contain descriptions of the activities of the Department Association, achievements of the students as well as members, results, seminars, workshops or any other academic/co-curricular endeavours organized by the department. The best practices in various areas, if any, can also be listed. It may also include photos, pictures, graphs, diagrams. The descriptive report shall not exceed four pages.

Additional information may be given as appendixes. A soft copy of the report also should be submitted. The information given in the report will be used for evaluating and grading the departments, preparing annual quality assurance report and for meeting the requirements of All India Survey on Higher Education.

#### A. PROFILE OF THE DEPARTMENT

<b>0.01</b>	<b>Name of the Department</b>	DEPARTMENT OF ZOOLOGY					
<b>0.02</b>	<b>Year of Starting</b>	UG	1955	PG	1982	PhD	1985
<b>0.03</b>	<b>No.of Programmes offered</b>	UG	PG:	PhD	CER	Dip	Total
		01	01	01			03
<b>0.04</b>	<b>Department Phone No</b>	--					
<b>0.05</b>	<b>Department email</b>	<a href="mailto:zoology@cmscollege.ac.in">zoology@cmscollege.ac.in</a>					
<b>0.06</b>	<b>Department website</b>						
<b>0.07</b>	<b>Name of the HOD</b>	DR. SOSAMMA OOMMEN					
<b>0.08</b>	<b>Mob.No of the HOD</b>	9447797811					
<b>0.09</b>	<b>Name of the IQAC Representative</b>	SONY JOSEPH					
<b>0.10</b>	<b>Mob.No of the IQAC Representative</b>	9446085775					
<b>0.11</b>	<b>Faculty strength</b>						
		Aided	Aided	Unaided	Unaided	Total	

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	FT*	PT**	FT*	PT**	
Sanctioned	8				8
Actual	6	2			8
Vacant					
<b>0.12</b>	<b>Details of Non Teaching Staff in the Department</b>				
Aided FT	Aided PT	Unaided FT	Unaided PT	Total	
1		1		2	
<b>0.13</b>	<b>Student strength (as on 31<sup>st</sup> March)</b>				
Programme	Semester	Male	Female	Total	
UG	1&2	11	32	43	
	3&4	7	35	42	
	5&6	11	31	42	
PG	1&2	0	12	12	
	3&4	1	9	10	
PhD	Present	1	4	5	
Other					
Total					

\* Full time , \*\* Part time

## B. CRITERIA-WISE DETAILS

### 1. CURRICULAR ASPECTS

<b>1.01</b>	<b>Total Number of UG Programmes</b>		01
<b>1.02</b>	<b>Name of UG programmes</b>		
	Sl.No	Programme	Specialisation
	1	B.Sc. ZOOLOGY	
<b>1.03</b>	<b>No. of PG Programmes</b>		
	Sl.No	Programme	Specialisation
	1	M.Sc. ZOOLOGY	ENTOMOLOGY
<b>1.04</b>	<b>Research Programme – Areas</b>		
	1	Taxonomy	
	2	Waste management	
	3	Marine Biology	
	4	Biochemistry	
	5	Microbiology	
<b>1.05</b>	<b>Name of the Certificate Programmes, if any NIL</b>		
<b>1.06</b>	<b>Name of the Diploma Programmes if any NIL</b>		
<b>1.07</b>	<b>No. and name Programmes started in the year</b>		
<b>1.08</b>	<b>No. and name of Programmes dropped in the year</b>		
<b>1.09</b>	<b>No. and name programmes for which curriculum is modified in the year</b>		

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<b>1.10</b>	<b>No. and name of add-on programmes</b>	
<b>1.11</b>	<b>No. and name of enrichment programme</b>	<ol style="list-style-type: none"> <li>1. Field Trip for PG students- Ayiramthengu, Kayamkulam (Mangroves, Thottappally spillway, Alleppey&amp;Punnapra Beach (30<sup>th</sup> September 2016)</li> <li>2. Nature Camp—Peppara Wildlife Sanctuary09-12-2016 to 11-12-2016</li> <li>3. Bird watching Programme 14-11-2016 to 15-11-2016</li> <li>4. ECDYSIS-Zoology Exhibition-28-02-2017 to 1-03-2017</li> <li>5. Wild life week celebration 7<sup>th</sup> October 2016</li> </ol>
<b>1.12</b>	<b>No. and name of bridge courses</b>	
<b>1.13</b>	<b>No. and names of the faculty members who are members of Board of studies or academic council of the university</b>	
<b>1.14</b>	<b>No. and name of faculty members who are involved in the curriculum development / design / review / modification at the university level</b>	<p>Dr.Jobin Mathew  Dr.Nisha P Aravind  Dr.SosammaOommen</p>

**2. TEACHING, LEARNING AND EVALUATION**

<b>2.01</b>	<b>Faculty Data</b>			
Designation	With Highest Educational Qualification			
	PhD	M,Phil	PG	Total
Associate Professor (Aided Stream)				
Assistant Professor (Aided Stream)	5		2	7
Temporary Teachers (Aided Stream)			2	2
Associate Professor (Unaided Stream)				

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Assistant Professor (Unaided Stream)				
Temporary Teachers (Unaided Stream)	-	-	-	
Visiting Professors				
Total				9
<b>2.02</b>	<b>Faculty Qualification</b>			
Sl.No	Name	Designation	Qualification	Experience in yrs
1	Dr.SosammaOommen	Assistant Professor	M.Sc.,B.Ed, M.Phil, Ph.D.	8
2	Dr.Jobin Mathew	Assistant Professor	M.Sc., Ph.D.	7
3	Dr.Nisha P Aravind	Assistant Professor	M.Sc. B.Ed. Ph.D.	7
4	Mr.Vijo Thomas Kurian	Assistant Professor	M.Sc.MEd	4
5	Dr.PushpaGeetha S.	Assistant Professor	M.Sc., Ph.D.	3
6	Mr. Sony Joseph	Assistant Professor	M.Sc. NET B.Ed	1
7	Dr.Baaby Job	Assistant Professor	M.Sc.,M.Phil Ph.D.	1
8	Mr.Sajithmon V.	FDP	M.Sc., NET	1
9	Ms.Shaloo Ann Thomas	Guest faculty	M.Sc., JRF	1
<b>2.03</b>	<b>Faculty participation in seminars / workshops/ conferences</b>			
Activity	International	National	State	Local
Participation only	01	--	02	04
Presented paper	02	--	02	--
Resource Person	--	--	--	--
<i>Give a list of faculty participation in seminars, workshops and conference indicating name of the faculty, activity, level, place and dates of the activity as appendix1.</i>				
<b>2.04</b>	<b>No of teachers who participated in Faculty Development</b>			

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<b>Programmes</b>				
Sl.No	Name of the Programme	No. of teachers	No.as % of total teachers	
1	Orientation Programmes	--		
2	Refresher Programmes	--	--	
3	Faculty Development Programmes organised by the college			
4	Other Faculty Development Programmes organised by other institutions	2	28.6%	
5	Faculty Exchange Programmes	--	--	
6	Any such programmes (please specify)			
<b>Total</b>				
<i>Please give details of participation including name of the teacher, name of the programme, place and duration in appendix 2</i>				
<b>2.05</b>	<b>Total number of days classes were conducted including internal examinations (excluding university level external examinations)</b>			
Level	Semester	No.of students	No.of teaching days	Avg % of attendance
UG	Sem 1			
	Sem 2			
	Sem 3			
	Sem 4			
	Sem 5			
	Sem 6			
PG	Sem 1			
	Sem 2			
	Sem 3			
	Sem 4			
<b>2.06</b>	<b>Details additional classes taken by the teachers</b>			
Level	Sem	Total No.ofAdditional Hrs. On working	Total Number of hrs. On additional days	Total Hours

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		days		
UG	Sem 1	10	3	13
	Sem 2	9	3	12
	Sem 3	5	4	9
	Sem 4	5		5
	Sem 5	4	7	11
	Sem 6	6	6	12
PG	Sem 1	9	18	27
	Sem 2	8	59	67
	Sem 3	14	17	31
	Sem 4	6	50	56
Total		76	167	243
<i>Please provide teacher-wise details of extra classes taken including name of the teachers extra hrs and extra days taken for each semester as appendix 3</i>				
<b>2.07</b>	<b>Are there any innovative teaching methods adopted by any faculty member</b>	Yes /No Yes		
<i>If yes, provide details relating to the method adopted, the name of the faculty member who adopts the particular method, the subject, class and programme for which the innovative method is used as appendix 4</i>				
<b>2.08</b>	<b>Student involvement in the teaching learning process (other than the mandatory activities specified in the curriculum)</b>			
	Insect collection and collection of marine fauna			
	Nature camp to Peppara wild life sanctuary			
	Competitions on current issues (Wildlife day etc....)			
	Teachers evaluation form			

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	Maintenance of Butterfly garden							
<b>2.09</b>	<b>Is there any other way of student involvement: If yes, specify, (The details may be given as appendix 5)</b>							
	Peer learning							
<b>2.10</b>	<b>Performance of the students in the latest university examination. For PG sem 4 previous year data may be used</b>							
Level	Sem	Name of exam	No. of students who obtained					Total
			A	B	C	D	E	
UG	Sem 1		15	9	2	1	1 6	43
	Sem 2		14	8	4	0	1 6	42
	Sem 3		14	8	4	3	9	38
	Sem 4		8	6	1		2 5	41
	Sem 5		10	4	6	11	1 0	41
	Sem 6		10	5	14		1 2	41
PG	Sem 1		2	7			3	12
	Sem 2			8	1		1	10
	Sem 3			5			5	10
	Sem 4			4			6	10
<i>Please attach copies of class-wise mark lists as appendix 6</i>								
<b>2.11</b>	<b>Demand Ratio</b>							
Sl No	Name of the Programme	Seats under open quota	No. of first and second choices received under CAP			Demand Ratio (Applications /Seats)		



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**3. RESEARCH, CONSULTANCY AND EXTENSION**

<b>3.01</b>	<b>Is the department an approved research centre for PhD</b>	Yes		
<b>3.02</b>	<b>Reg No and year of Registration</b>	Order No-Ac.A II (1) dated: 1985		
<b>3.03</b>	<b>No of Research guides in the Centre</b>	From the department	From outside	Total Guides
		02		02
<i>Give a list of research guides in the Centre / Department as appendix 7</i>				
<b>3.04</b>	<b>No of teachers who are research guides in other centres</b>	NIL		
<i>Give a list of teachers who are research guides in other centres as appendix 8</i>				
<b>3.05</b>	<b>No of Research Scholars in the Centre</b>			
		<b>Male</b>	<b>Female</b>	<b>Total</b>
	Full time	01	03	04
	Part time		01	01
	<b>Total</b>	01	04	05
<i>Give a list of research scholars in the Centre as appendix 9</i>				
<b>3.06</b>	<b>No of PhDs awarded during the year in the Centre</b>	Nil		
<i>Give a list of PhD s awarded during the year showing name of the scholar, name of the guide, title of the thesis etc as appendix 10</i>				
<b>3.07</b>	<b>Minor Projects in the department</b>			
Proposals submitted during the year	Sanctioned during the year	Completed during the year	Currently on going	

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<i>Give a list of minor projects in the department indicating the title of the project, name of the agency, name of the project holder, amount of the project, level of completion as appendix 11</i>					
<b>3.08</b>	<b>Major Projects in the department</b>				
Proposals submitted during the year	Sanctioned during the year	Completed during the year	Currently on going		
<i>Give a list of major projects in the department indicating the title of the project, name of the agency, name of the project holder, amount of the project, level of completion as appendix 12</i>					
<b>3.08</b>	<b>Research Papers published by faculty</b>				
National Journal	Intl. Journals	Proceedings	Others	Total	
-	01	05	01	07	
<i>Give a list of publications of research papers by the faculty in the standard format as appendix 13 specifying the impact factor</i>					
<b>3.09</b>	<b>Books published by faculty during the year</b>				
Text Books	Co-Authord books	Ed.Books	Chapters in Books	Other books	Total
0	0	0	01	0	01
<i>Give a list of publications of books by the faculty in the standard format as appendix 14</i>					
<b>3.10</b>	<b>Number of research publications by students including research scholars</b>				
National Journal	Intl. Journals	Proceedings	Chapters in Books	Others	Total

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<i>Give a list of publications of research papers by the students in the standard format as appendix 15</i>					
<b>3.11</b>	<b>Details of research awards, best teacher award, best paper awards and other such awards and recognitions for academic contributions</b>				
Teaching	Publication	Research	Others	Total	
<i>Give a list of teachers who have obtained the awards as appendix 16</i>					
<b>3.12</b>	<b>Details of awards and recognitions received by students including /research Scholars</b>				
Learning Proficiency	Presentation	Publication	Research	Others	Total
<i>Give a list of teachers who have obtained the awards as appendix 17</i>					
<b>3.14</b>	<b>Research papers with impact factor by faculty or research scholars</b>				5.464
<b>3.15</b>	<b>Faculty members with <i>h</i> index</b>				
<b>3.16</b>	<b>Is any consultancy<sup>1</sup> work is undertaken at the department level</b>				Yes
<b>3.17</b>	<b>If yes, is it charged or undertaken on voluntary basis?</b>				Voluntary
<b>3.18</b>	<b>If charged, how much amount is collected through consultancy</b>				--
<i>Give details about the department level consultancy undertaken if any as appendix 18</i>					
<b>3.19</b>	<b>Number of faculty members engaged in consultancy</b>				02

<sup>1</sup> Consultancy means advising or giving expert opinion to industry, firm or public outside the campus either for fee or free of cost.

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<b>3.20</b>	<b>Fees collected through consultancy by faculty</b>	--			
<i>Give details about consultancy undertaken by faculty members as appendix 19</i>					
<b>3.21</b>	<b>Does the department has any collaboration for research, consultancy or extension</b>	Yes			
<i>If yes, give details of the collaboration indicating the purpose, agency, nature, period etc as appendix 20</i>					
<b>3.22</b>	<b>Does the department undertake any extension<sup>2</sup> activity other than NSS and NCC</b>	Yes			
<i>Give details about the extension activities undertaken by the department as appendix 21</i>					
<b>3.23</b>	<b>No. of NSS volunteers in the department. (give % to total also)</b>	No.	%		
		27	18.8		
<b>3.24</b>	<b>No. of NCC cadets in the department. (give % to total also)</b>	No.	%		
		12	8.39		
<b>3.25</b>	<b>Any faculty member holding the charge of NSS or NCC</b>	No			
	<b>Name:</b>	--			
<b>3.26</b>	<b>Seminars , workshops, Conferences, summer schools etc organised by the Department</b>				
	<b>Programme</b>	<b>Level</b>	<b>Sponsor</b>	<b>Cost</b>	<b>Dates</b>
	Seminar on Recent trends in Brain research as a part of Brain awareness Week celebration	State	College	15900/-	17/03/2017

<sup>2</sup> Extension activity means extending the facilities, resources and the knowledge to the society. It may also be called as ISR (Institutional Social Responsibility)

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### 4. INFRASTRUCTURE DEVELOPEMNT

<b>4.01</b>	<b>Infrastructure details</b>	
	Total Built up Area of the Department in sq.mtrs	
	No.of class rooms	5
	Computer lab	1
	Laboratories	2
	Seminar hall	1
<b>4.02</b>	<b>Computer details</b>	
	Total number of computers	7
	Computers with internet connectivity	5
	Laptops	2
<b>4.03</b>	<b>Audio-Visual Aids</b>	
	Number of LCD projectors	2
	Number of interactive boards	1
	Other audio-visual aids (Specify)	
<b>4.04</b>	<b>Student amenities</b>	
	Drinking water facility	yes
	No. of Toilets	3
	Wash facilities	1
	Reading room	1
	Internet facilities	yes
<b>4.05</b>	<b>Do you have a department library</b>	yes
<b>4.06</b>	<b>If yes, no. of books</b>	300

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4.07	<b>Does the department subscribe any news paper, journal etc. other than those in the general library</b>						No
<i>Give a list of journals, periodical, news papers etc., subscribed at the department level as appendix 22</i>							
4.08	<b>Do you maintain separate stock registers for computers, audio-visual equipments, books, laboratory equipments, furniture etc. (Tick relevant cells)</b>						
Books	Computers	Furniture	Audio-Visual	Lab.Eqip	Ups and Printer	Others	
yes	--	--	--	Yes	--	--	

## 5. STUDENT SUPPORT AND PROGRESSION

5.1	<b>Total No of students</b>									
	UG									
	M	F	T	M	F	T	M	F	T	
SC					02	02				
ST					02	02				
OBC										
OEC				01	03	04				
Muslim Minority					01	01				
Christian Minority					07	07				
General						06				
Total										
<i>List of students will be provided from the college office</i>										
5.02	<b>Student Result</b>									

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Level	Enrolled	Appeared	A	B	C	D	E	Total Pass	Pass %
UG	41	38	10	5	14		9	29	70.73
PG	10	10		4			6	4	40
<i>Give a list of students with reg.no, class no, gender, category, and grade obtained for each outgoing batch as appendix 23</i>									
<b>5.3</b>	<b>Student Progression</b>								
Programme	Total Students								
UG				02			10		10
PG	10			04	01				
<i>Give a list of students showing their progression for the last batch as appendix 24</i>									
<b>5.04</b>	<b>No.of students who qualified NET, JRF, SET, GATE, CAT etc.,</b>								
NET	JRF	SLET	GATE	CAT	Al l I n d i a			Total	

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04	01													
<i>Give a list of students who qualified NET, GATE etc., indicating name of the student, exam qualified present position etc (applicable only for Departments with PG Programmes) as appendix 25</i>														
<b>5.05</b>		<b>Students achievements in sports</b>												
Regional Level		Uty Level	State level				National		Others		Total			
P*	A**	P	A	P	A	P	A	P	A	P	A	P	A	
<i>Give a list of students who obtained any kind of recognition for sports achievements specifying name, item, event, level etc as appendix 26</i>														
*P – Participated							**A – Achievements							
<b>5.06</b>		<b>Student achievement id Arts and cultural activities</b>												
Regional Level		Uty Level		State level		National		Others						
P*	A**	P*	A**	P*	A**	P*	A**	A**	P*			A**	P	
		2				2								
<i>Give a list of students who obtained any kind of recognition for cultural activities achievements specifying name, item, event, level etc as appendix 27</i>														
*P – Participated							**A – Achievements							



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<b>5.07</b>		<b>Student participation in NSS and NCC and other extension activities</b>									
No of students in NSS		No. of students in NCC								Nature Club	
M	F	T	M	F	T	M	F	T	M	F	
4	23	27	4	8	12	21	7	91	0		
<i>Mention any special achievement of any student in the above said area separately as appendix 28</i>											
<b>5.08</b>		<b>Do you have a department association</b>									
<b>5.09</b>		<b>Mention the major activities of the association</b>									
Talks		Visits		Quizes		Other Academic activities		Cultural Fests		Others	
02		01 Kumarakombird sanctuary		--		03 Envt day tree Wetland day poster Competition Wild life week celebration Campus stay Bird watching programme		01 Associationday			
<i>Give details of the programmes conducted indicating the date, programme title, outcome and other information</i>											
<b>5.10</b>		<b>Does the department maintain a continuously updated database of the Alumni yes</b>									
<b>5.11</b>		<b>Details of NET / GATE Coaching provided</b>									
No.of classes conducted			No.of Students participated			No.of students qualified			Amount Spent		Name
<i>Please maintain a record in the department the details of class conducted indicating date, attendance, name</i>											
<b>5.12</b>		<b>No. of students availing of any scholarship or Fee concessions or Grants Student S</b>									

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Sl.No	Name of Scholarship	I&2 Sem UG	3&4Sem UG	5&6 Sem UG
1	Post metric Scholarship			
2	Central Sector Scholarship			
3	Suvarna Jubilee Scholarship			
4	Muslim Girls Scholarship			
5	Higher Education Scholarship			
6	Single Girl Child Scholarship			
7	University Merit Scholarship			
8	Labour Welfare (Granite & Dolomite) Scholarships			
9	NCERT Scholarships			
10	District Merit Scholarships			
11	Students Aid Fund			
12	Fishermen Scholarships			
13	Merit –Cum- Means Scholarships			
14	KPCR	04	10	08
15	Others (specify)			
	Total			

*Give a list of students getting each scholarship as appendix 30*

<b>5.13</b>	<b>Details of any scholarship, assistance, endowments etc ., provided at the department</b>
1.	Alumni scholarships for meritorious students from poor background

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2.	Assistance given to students from poor background
3.	Assistance given for cancer treatment to III DC student

**6. GOVERNANCE AND LEADERSHIP**

<b>6.01</b>	<b>Names of the members of the Department Level IQAC (DIQAC)</b>	
Sl.No	Name	Designation
1.	Dr.SosammaOommen	HOD
2.	Mr. Sony Joseph	Assistant Professor
<b>6.02</b>	<b>No.of DIQAC meetings held during the year</b>	7
<b>6.03</b>	<b>Give a list of 5 major decisions related to quality enhancement</b>	
	1	Encourage student participation in research and training programs
	2	Inspire students for summer fellowship programs
	3	Improving employability of students
	4	Improve reading habits by keeping catchy science facts and recent environmental issues
	5	Encourage students to participate in Intercollegiate and interdepartmental competitions, seminars and workshops.
<b>6.04</b>	<b>How many staff meetings were held during the last one year</b>	8
<b>6.05</b>	<b>How many meetings of the class representatives are held during the last one year</b>	13
<b>6.03</b>	<b>Briefly state the developmental activities planned and implemented during the last year</b>	
	1. Reading corner	

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2. Maintenance of butterfly garden					
<b>6.04</b>	<b>No. of Alumni meeting held during the last one year</b>			03	
<b>6.05</b>	<b>State the alumni contribution to the department during the last one year.</b>				
1972-75 UG batch contributed Rs, 20,000 for meritorious students from poor background(1 student each from UG and PG)21.					
1983-85 PG batch contributed Rs. 5000 for 1 meritorious and needy student					
<b>6.06</b>	<b>Financial resources of the department</b>				
Sl.No	Name of the Source	Amount received	Amount Spent	Balance	
1	UGC				
2	FIST / DST				
3	PTA	35,000	35,000	0	
4	Alumni	25,000	25,000	0	
5	Programmes organised by the department	67,281	67281	0	
6	Other sources				
<b>Total</b>		1,27,281	1,27,281	0	
<i>Provide accounts of the department as appendix 31</i>					
<b>6.07</b>	<b>Does the Department collect feedback from stake holders about the working of the department (tick relevant boxes)</b>				
Students	Alumni	Parents	employers	Public	Others
yes				yes	
<b>6.08</b>	<b>Specify any action taken on the basis of feedback</b>				
Made the teaching learning process more student friendly.					

## 7. INNOVATIVE / BEST PRACTICES

7.01	Specify any innovative practices followed by the department in the areas of teaching, evaluation, research, student support, management etc.
Teaching	<p>One Day Taxonomy Workshop for PG Students</p> <p>Bird survey, Field visit, Nature camp, Institute visit, Celebration of important days like environment day, world wetland day, world wild life week etc.</p> <p>Invited talk and classes by eminent retired faculties on a voluntary basis</p>
Learning	<p>Attractive Powerpoint presentation on behaviour by students for school students</p> <p>Student Guide to explain visitors to the Museum</p> <p>Blood group determination</p> <p>Preparation of Exhibition items and explaining it to the public</p> <p>Curios from waste or wealth from waste</p> <p>Group study to help the average and poor students</p>
Research	<p>Research topics were mostly very relevant to the local problems and fauna of the campus</p>
Student support	<p>Reading Corner, department library, Computers with internet facility</p> <p>Training for mushroom culture, vermiculture, apiculture, waste management etc.</p>
Management	<p>Food waste management of the campus</p>
Any other	<p>Vechur Cow- For conservation of indigenous cattle breeds of Kerala</p>

**SWOT ANALYSIS OF THE DEPARTMENT****Strengths:**

- Department has an excellent reputation; among the seven permanent faculty members, five have doctoral degree with diverse specializations.
- The faculty members have national and international publications.
- The department is having a cordial environment and have very cooperative and well supported retired faculty who voluntarily assist in giving their expertise
- The college campus is blessed with rich flora and fauna, hence biodiversity studies on birds, dragonflies, butterflies, earthworms, ants and spiders can be carried out effectively.
- The department serves as the head quarter of the Zoological Society of Kerala, a voluntary organization of Zoology teachers of Kerala. Our former head of the department Prof. P.C. John is the co-ordinator of the society.
- All the computers in the department have internet connection
- Amrutha Virtual lab facility is extended to the students and teachers
- A strong focus on quality teaching with interactive CDs enables students at all levels to excel in learning
- Practical training is extended to students, in Apiculture (stingless bee culture), vermiculture, waste management and aquarium management inculcate 'earn while learn' culture among students
- Vechur cow is conserved in the college under the supervision of Zoology department

**Weaknesses:**

- Some of the students are from poor socio-economic background and they are compelled to go for part-time jobs which affect their overall performance.
- Delay in filling of sanctioned faculty vacancies, due to government formalities
- Inadequate laboratory facility for carrying out advanced level research activities, at molecular level
- Due to the difference in exam schedule, practical and valuation of autonomous and non-autonomous batch, teachers are more stressful. They are not getting enough time to show their expertise in research fields.

**Opportunities:**

- Many faculty with expertise in taxonomy, especially the taxonomy of dragonflies, spiders, wasps, birds *etc.* can train students in biodiversity studies
- Department has consultancy potential in apiculture, waste management and vermiculture,
- Has efficient faculty members for giving training in aquarium management, mushroom cultivation, apiculture, organic manure preparation and pesticides
- Inter disciplinary programs can be organised
- Awareness program for public in solid waste management
- Orientation programs for school students to develop research attitude

**Challenges:**

- We have to make the course more attractive and job oriented.
- It is difficult to modify our lab to cope up with the new changes in the practical syllabus, unless sufficient financial support is available.
- Result of first few semesters will lag a lot. For PG course the first semester result will be published only by the end of 3<sup>rd</sup> semester and 3<sup>rd</sup> semester result will be announced only after IV<sup>th</sup> sem theory and practical
- Because of late admission procedures and first semester lag, second, third and fourth semester will not get enough time to teach. Teachers are forced to take extra hours for the completion of theory and practical.
- Both autonomous and University batches of students, their exams and both the responsibilities give too much workload to teachers



## Appendix -1

## Details of faculty participation in seminars, workshops, conferences etc.

Sl. No	Name of faculty	Name of activity*	Level**	Place	Dates
1	Dr.Sosamma Oommen	Cluster workshop	College	CMS college, Kottayam	25/01/2017
2	Dr.Jobin Mathew	Conference presentation	International	IMA Hall organized by De Paul Institute of Science and Technology in Collaboration with De Paul University, Chicago	19/12/2016 - 20/12/2016
		Seminar Presentation	State	29 <sup>th</sup> Kerala Science Congress, Mar Thoma College, Thiruvalla	28/01/2017 30/01/2017
		Seminar	State	Kerala Agricultural University, Thrissur	02/03/2017 - 04/03/2017
		Workshop on Curriculum design	College	CMS College, Kottayam	10/04/2017 - 11/04/2017
3	Dr.Nisha P. Aravind	Workshop on Curriculum design	College	CMS College, Kottayam	10/04/2017 - 11/04/2017
4	Dr.PushpaGeetha S.	Cluster workshop	College	CMS college, Kottayam	25/01/2017
		Seminar	International	University College, Thiruvananthapuram	01/03/2017 - 03/03/2017
		Seminar	State	Kottayam	24/03/2017
5	Sajithmon V.	Conference presentation	International	IMA Hall organized by De Paul Institute of Science and Technology in Collaboration with De Paul University, Chicago	19/12/2016 - 20/12/2016
		Workshop	College	Government College, Nattakom, Kottayam	16/01/2017 - 17/01/2017
		Seminar Presentation	State	29 <sup>th</sup> Kerala Science Congress, Mar Thoma College, Thiruvalla	28/01/2017 30/01/2017

\*Seminar, Workshop, Conference, \*\*College, University, State, National, International

## Appendix -2

## Details of faculty participation in Faculty Development Programmes.

Sl.No	Name of faculty	Name of Programme	Place	Dates
1	Dr.Nisha P. Aravind	FLAIR Orientation Program	Trivandrum	25 <sup>th</sup> August 2016
		FLAIR induction training programme	Loyola Extension Services, Trivandrum	06/10/2016-08/10/2016
		Faculty development programme on “Excellence in Teaching and Transforming Classrooms”	School of Legal Studies, Cochin University of Science and Technology	04/11/2016-05/11/2016
2	Dr.Jobin Mathew	FLAIR Orientation Program	Trivandrum	25 <sup>th</sup> August 2016
		FLAIR induction training programme	Loyola Extension Services, Trivandrum	06/10/2016-08/10/2016

## Appendix -3

## Details of additional hrs handled by faculty members.

Sl. No	Name of faculty	No.of additional hrs in semester – semester wise						Total
		Class I DC	Class IIDC	Class IIIC	Class I PG	Class II PG	Class	
1	Dr.SosammaOommen				10	16		26
2	Dr.Jobin Mathew			6	12	16		34
3	Dr.Nisha P Aravind		--	--	6	8		14
4	Mr.Vijo Thomas Kurian				2	4		6
5	Dr.PushpaGeetha S.	15	10 (sub)	8	14	15		62
6	Mr. Sony Joseph				18	14		32
7	Dr.Baaby Job	--	4		14	14		32
8	Mr.Sajithmon V.	5 (sub)		4	14	8		31
9	Ms.Shaloo Ann Thomas	5		5	--	--		

## Appendix -4

## Details of Innovative Teaching Methods adopted by the Faculty

Sl.No	Name of faculty	Innovative method	Brief Description of the method	Outcome
1.	Dr.SosammaOommen	Using Powerpoint, Video lessons of IIT's and other media	Used for UG & PG	See, understand and recollect information for longer time
2.	Dr.Nisha P Aravind	Using Powerpoint  Virtual lab	Used for UG & PG  For conducting practicals in microbiology	See, understand and recollect information for longer time
3.	Dr.Jobin Mathew	Using Power Point, interactive board	Used for UG & PG	See, understand and recollect information for longer time
4.	Dr.PushpaGeetha S	Using Powerpoint	Used for UG & PG	See, understand and recollect information for longer time
5.	Mr. Sony Joseph	Using Powerpoint	Used for UG & PG	See, understand and recollect information for longer time
6.	Dr.Baaby Job	Using Powerpoint	Used for UG & PG	See, understand and recollect information for longer time
7	Mr.Sajithmon V	Using Powerpoint	Used for UG & PG	See, understand and recollect information for longer time
8.	Ms.Shaloo Ann Thomas	Using Powerpoint	Used for UG & PG	See, understand and recollect information for longer time



## Appendix -5

**Details of innovative ways of student involvement in the teaching – learning Process**

Sl.No	Method	Description	Which students
1.	Power point presentation	Videos on animal behaviour	Amitha (IIIDC)
2.	Specimen description	Listing and explaining of main characteristics of important specimens of different phyla	II DC
3.	Blood grouping	To determine blood type as well as learning about Antigen- antibody interactions	III DC
4.	Microbial culture	Culturing of <i>E.coli</i> and quantifying the bacteria as well as determining the potability of water	MisrainFathima (IIIDC)
5.	Evolution	Describing the evolutionary concepts including the evolution of Earth, Living things and Man	II DC students
6.	Scientific concepts	Demonstration of scientific experiments and concepts like DNA Isolation	I PG& I DC
7.	Pests management	Demonstrating various stages of pests attack and their economic importance	II PG
8.	Awareness on Carbon reduction& methods to reduce pollution	Bioplastics, raising awareness on carbon foot print	I DC

Appendix -6

Grades obtained by the students

Sl No	Class No	Name	Course1	Course2	Course3	Course4	Course5	Course6	Course7	Total

## Appendix -7

**List of Research Guides (Supervisors) in the Department**

Sl.No	Name	Specialisation	Part-Time Scholars	Full-Time Scholars
1	Dr.SosammaOommen	Waste Management Microbial biochemistry	01	03
2	Dr.Jobin Mathew	Molecular Biology Insect Taxonomy	--	01



## Appendix – 8

**List of Teachers of the Department who are Research guides in Other Institutions**

<b>Sl.No</b>	<b>Name of the Teacher</b>	<b>Institution of guideship</b>

## Appendix – 9

## List of Research Scholars

Sl.No	Name of the Scholar	Guide	Type *	Funding**
1.	Ms.Chinnulpe	Dr.Jobin Mathew	Full Time	Own funding
2	Ms.Shaloo Ann Thomas	Dr.SosammaOommen	Full Time	UGC - JRF
3	Mr.Bany Joy	Dr.SosammaOommen	Full Time	CSIR-JRF
4	Ms.Chitra	Dr.SosammaOommen	Full Time	UGC-JRF
5	Ms.Sany Mary Benjamin	Dr.SosammaOommen	Part Time	Own funding

\*Type = full time or part-time

\*\* Funding = JRF, University Fellowship, other sources, own funding

## Appendix -10

## No.pof PhDs awarded in the centre

Sl.No	Name of the Scholar	Guide	Title

## Appendix -11

## Details of Minor Research Projects

Sl.No	Name of the Project Holder	Funding Agency	Amount	Level of Completion

## Appendix -12

## Details of Major Research Projects

Sl.No	Name of the Project Holder	Funding Agency	Amount	Level of Completion

## Appendix 13

## List of Publications of Research Articles by the Faculty

Sl.No	Name of the Faculty	Title of the Article	Name of the Journal	Volume and issue	Impact factor
1.	Dr.SosammaOommen	Skin of the Catfish (Arius Bilineatus, Val.) Contains Lipid Compounds that Regulate NET Formation and NET-Mediated Inflammation,	The FASEB Journal April 2017.	vol. 31 no. 1 Supplement lb231	IF:5.464
		Biological Activities of Sterols Released in Dermal Secretions of Catfish (Arius bilineatus, Val)	Proceedings The 57 International Conference on the Bioscience of lipids to be held in Chamonix, France, 4-8 Sept. 2016		
		A partially purified Lipid fraction derived from the skin of the Catfish (Arius bilineatus, Val) stimulates migration and proliferation of human skin fibroblasts, as well as facilitates their deposition of new extracellular matrix in the in vitro model of wound healing	Proceedings The 57 International Conference on the Bioscience of lipids to be held in Chamonix, France, 4-8 Sept. 2016		
		Anti-proliferative Activities of lipid fraction of extract from the Skin of the Catfish Arius Bilineatus, Valenciennes	Proceedings The 57 International Conference on the Bioscience of lipids to be held in		

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			Chamonix, France, 4-8 Sept. 2016		
2.	Dr.Jobin Mathew	Role of indigenou cow in low cost sustainable agriculture	Proceedings International conference on Triple bottom line for sustainability: The roles of Government, Corporate and Non Profit Sectors.		
		Bacopamonnieri and bacoside A for improving behavioural deficits of pilocarpineindused epileptic rats,	Proceedings 29 <sup>th</sup> Kerala Science congress		
3.	Dr.Baaby Job	Diet Predicts Nutrients Preference- Omnivorous Ant PreferCarbohydrate Rich Liquid Diet While Predatory Ant Prefer Lipid and Protein	International Journal of Biodiversity and Species Research	September 2016Vol 1 [1	
		A proposed model for the identification of Sphecidae using DNA barcoding.	Discourse, Xaverian Research Journal,	September 2016, Vol 4(2) Pages 43-47	
4.	Mr.Sajithmon V	Role of indigenou cow in low cost sustainable agriculture	Proceedings International conference on Triple bottom line for sustainability: The roles of Government, Corporate and Non Profit Sectors.		
		Bacopamonnieri and	Proceedings		

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		bacoside A for improving behavioural deficits of pilocarpineindused epileptic rats,	29 <sup>th</sup> Kerala Science congress		
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## Appendix -14

## List of Books Published by the Faculty

Sl.No	Name of the faculty	Title of the Book	Publisher	Type of the book
1.	Dr Baaby Job (Book Chapter)	Diversity and Distribution of Sphecoid Wasps in Kerala, India: Bioindicators of Habitat Quality, <i>In</i> “Arthropod Diversity and Conservation in the Tropics and Subtropics”, Editors Akshay Kumar Chakravarthy&ShakunthalaSridhara	Springer, December 2016	

## Appendix -15

## List of Publications by students and research scholars

Sl.No	Name of the student	Title of the publication	Type	Publication details
1				

## Appendix -16

## Details of Awards, recognitions etc., obtained by faculty members

Sl.No	Name of the faculty	Name of the Award	Area	Level

## Appendix -17

## Details of Awards, recognitions etc., obtained by students and Research scholars

Sl.No	Name of the faculty	Name of the Award	Area	Level
1	Mebin George Varghese	SRFP-2017-18 Indian Academy of Sciences		
2	Haritha S. Prasad	SRFP-2017-18 Indian Academy of Sciences		

## Appendix -18

## Details of Department Level consultancy

Sl.No	Type of Consultancy	For Whom	Paid or Free
1	Termite taxonomy	Institute	Free
2	Waste management	Municipality wards, ladies hostel and villa project	Free

## Appendix -19

## Consultancy by Faculty

Sl.No	Type of Consultancy	For whom	Paid or Free
1	Termite taxonomy	Institute	Free
2	Waste management	Nearby ward, hostel and villa project	Free

## Appendix -20

## Details of Collaborations

Sl.No	Agency	Purpose	Nature	Period
1	Kuwait University	Research		5 years
2	Ecoscience research foundation Chennai	Research		5 years
3	Advanced Centre for Environmental studies & Sustainable development in MG University	Research		5 years

## Appendix-21

## Details of extension activities undertaken by the department

Sl.No	Activity	Details	Beneficiaries
1.	Ecdysis	Zoology exhibition	General Public, School and College students
2	Mushroom Workshop	Mushroom culture techniques and seed distribution	General Public



## Appendix-22

## Journals, periodical, news papers etc., subscribed at the department level

Sl.No	Journal/Periodical	Frequency	Cost p.a

## Appendix -23

## Programme End Result

Sl.No	Class No	Reg.No	Name	Gender	Category	Grade
<b>UG end result 2014 -2017 batch</b>						
1	3301	140021095791	AKHILA KUMARAN	F	SC	F
2	3302	140021095792	AKHITHA KRISHNAN	F		A+
3	3303	140021095793	ALEENA JOICE TOM	F		C
4	3304	140021095794	AMRUTHA P RAGHAVAN	F		C
5	3327	140021095795	ANANTHU v SUDHAKARAN	M	ST	ABSENT
6	3305	140021095796	ANJU OMANAKKUTTAN	F	KPCR	B
7	3307	140021095798	APARNA VASUDEVAN	F	SC	A+
9	3309	140021095800	ATHIRA RAMAKRISHNAN	F	SC	C
10	3310	140021095801	DEVIKA PRAKASH	F	KPCR	B
11	3311	140021095802	DHANYA MOHAN AV	F	KPCR	A
12	3312	140021095803	GOPIKA GOPI	F	OBC	F
14	3315	140021095805	RIYA RACHEL GEORGE	F	ST	F
15	3316	140021095806	SUDARS M K	M		C
16	3317	140021095807	UTHRA MOHAN	F	KPCR	C
17	3320	140021095810	AJITH GEORGE	M		
18	3321	140021095811	ALBIN JOY	M	OEC	F
19	3322	140021095812	AMINA ABDUL RSHEED	F	OBC	C
20	3323	140021095813	AMITHA SUSAN MATHEW	F		A
21	3324	140021095814	AMRITHA PS	F	OBC	C
22	3325	140021095815	ANAGHA PRASANNAN	F	OBC	A
23	3329	140021095818	ANJU K K	F	SC	C
24	3332	140021095820	ANUMOL BHASKARAN	F	ST	C

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25	3333	140021095821	ARUN XAVIER	M	KPCR	A
26	3334	140021095822	ATHIRA KURUP	F		A
27	3335	140021095823	DEVIKRISHNA U	F	SC	B
28	3336	140021095824	DINO K J	M	OEC	C
29	3337	140021095825	INDUSHA BABU	F	SC	F
30	3338	140021095826	JITHU N S	M	KPCR	F
31	3339	140021095827	KEERTHY RAJAN	F	SC	C
32	3340	140021095828	KIRAN K V	M	KPCR	F
33	3341	140021095829	MARIYA JACOB	F	OEC	C
34	3342	140021095830	MEKHA V RAJAN	F	SC	A
35	3343	140021095831	MISARIN FATHIMA	F	OBC	C
36	3346	140021095833	POOJA S	F		A+
37	3347	140021095834	RAHUL HARISH	M	KPCR	F
38	3348	140021095835	SASILEKHA M SASI	F	OEC	C
39	3349	140021095836	SREELAKSHMI P U	F	OEC	B
40	3350	140021095837	SREERAJ T R	M	SC	F
41	3351	140021095838	SRUTHY SARA REJI	F		A
42	3352	140021095839	STEPHIN J PETER	M	OEC	F
43	3353	140021095840	SUBY SUNIL	F	SC	F
44	3354	140021095841	SWETHA C	F	KPCR	B

## M. Sc

Sl.No	Class No	Reg.No	Name	Gender	Category	Grade
1	6251	1400110 11330	ANJU M S	F	OEC	F
2	6252	1400110 11331	ANUSMITHA DOMICHAN	F	OEC	B+
3	6253	1400110 11332	CHANDANA RAVIDAS	F	OEC	B
4	6254	1400110 11333	JOVAN PAUL	M	GENERAL	F
5	6255	1400110 11334	LAKSHMI C ANIRUDHAN	F	SC	B

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6	6256	1400110 11335	NEETHU JOSE	<b>F</b>	<b>OEC</b>	<b>F</b>
7	6257	1400110 11336	ROSHNI RAJU	<b>F</b>	<b>OEC</b>	<b>F</b>
8	6258	1400110 11337	SANDHYA CS	<b>F</b>	<b>ST</b>	<b>F</b>
9	6259	1400110 11338	STEPHY MARIA PAUL	<b>F</b>	<b>OEC</b>	<b>F</b>
10	6260	1400110 11339	SYAMA MUKUN DAN	<b>F</b>	<b>OEC</b>	<b>B+</b>

## Appendix -24

## Progression of Students (for each Programme separately)

Sl.No	Reg.No	Name	Gender	Category	Grade	PROGRESSION
1	140021095791	AKHILA KUMARAN	F	SC	F	
2	140021095792	AKHITHA KRISHNAN	F		A+	PSC
3	140021095793	ALEENA JOICE TOM	F		C	
4	140021095794	AMRUTHA P RAGHAVAN	F		SC	
5	140021095795	ANANTHU v SUDHAKARAN	M	ST	ABSENT	
6	140021095796	ANJU OMANAKKUTTAN	F	KP CR	B	PG
7	140021095798	APARNA VASUDEVAN	F	SC	A+	PG
9	140021095800	ATHIRA RAMAKRISHNAN	F	SC	C	PSC
10	140021095801	DEVIKA PRAKASH	F	KP CR	B	
11	140021095802	DHANYA MOHAN AV	F	KP CR	A	PG
12	140021095803	GOPIKA GOPI	F	OB C	F	
14	140021095805	RIYA RACHEL GEORGE	F	ST	F	
15	140021095806	SUDARS M K	M		C	HEALTH INSP
16	140021095807	UTHRA MOHAN	F	KP CR	C	
17	140021095810	AJITH GEORGE	M			
18	140021095811	ALBIN JOY	M	OE C	F	
19	140021095812	AMINA ABDUL RSHEED	F	OB C	C	D.Ed
20	140021095813	AMITHA SUSAN MATHEW	F		A	PG
21	140021095814	AMRITHA PS	F	OB C	C	D.Ed
22	140021095815	ANAGHA	F	OB	A	PSC

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		PRASANAN		C		
23	140021095818	ANJU K K	F	SC	C	PSC
24	140021095820	ANUMOL BHASKARAN	F	ST	C	PSC
25	140021095821	ARUN XAVIER	M	KP CR	A	PG
26	140021095822	ATHIRA KURUP	F		A	PG
27	140021095823	DEVIKRISHNA U	F	SC	B	PSC
28	140021095824	DINO K J	M	OE C	C	HEALTH INSP
29	140021095825	INDUSHA BABU	F	SC	F	
30	140021095826	JITHU N S	M	KP CR	F	JOB
31	140021095827	KEERTHY RAJAN	F	SC	C	
32	140021095828	KIRAN K V	M	KP CR	F	HEALTH/PSC
33	140021095829	MARIYA JACOB	F	OE C	C	PSC
34	140021095830	MEKHA V RAJAN	F	SC	A	PG
35	140021095831	MISARIN FATHIMA	F	OB C	C	
36	140021095833	POOJA S	F		A+	PG
37	140021095834	RAHUL HARISH	M	KP CR	F	JOB
38	140021095835	SASILEKHA M SASI	F	OE C	C	PSC
39	140021095836	SREELAKSHMI P U	F	OE C	B	LLM
40	140021095837	SREERAJ T R	M	SC	F	PSC
41	140021095838	SRUTHY SARA REJI	F		A	PG
42	140021095839	STEPHIN J PETER	M	OE C	F	HEALTH
43	140021095840	SUBY SUNIL	F	SC	F	D.ED
44	140021095841	SWETHA C	F	KP CR	B	TTC- TEACHER

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Sl.No	Class No	Name	Gender	Category	Grade	Progression
<b>M,Sc students of 2014-2016 batch</b>						
1	14001101 1330	ANJU M S	F	OBC	F	Working
2	14001101 1331	ANUSMITHA DOMICHAN	F	OEC	B+	Net coaching
3	14001101 1332	CHANDANA RAVIDAS	F	OBC	B	Teacher
4	14001101 1333	JOVAN PAUL	M	GENERAL	F	Teacher
5	14001101 1334	LAKSHMI C ANIRUDHAN	F	SC	B	Teacher
6	14001101 1335	NEETHU JOSE	F	OEC	F	Awaiting result of failed paper
7	14001101 1336	ROSHNI RAJU	F	OEC	F	Awaiting result of failed paper
8	14001101 1337	SANDHYA CS	F	SC	F	Awaiting result of failed paper
9	14001101 1338	STEPHY MARIA PAUL	F	OEC	F	Awaiting result of failed paper
10	14001101 1339	SYAMA MUKUN DAN	F	OEC	B+	Teacher

## Appendix -25

*Students who qualified NET, GATE etc.,*

(give the names of students in each column)

NET	NET with JRF	GATE	All India	Other SRPF 17-18 Indian Academy of Sciences
Amrutha VReghu	Chithra			Mebin George Varghese
SomyCherian				Haritha S. Prasad
Binitha K.				



## Appendix -26

## Students who obtained any kind of recognition for sports achievements

Sl.No	Name of the student	Item	Event	Level

## Appendix -27

## Students who obtained any kind of recognition for cultural activities

Sl.No	Name of the student	Item	Event	Level
1.	Gayathri	Kuchippudi— A Grade	MG University Inter Collegiate kalolsavam	University
2.	Ida Elizabeth George	Group song – Western First Prize	South Zone University Competition	Inter University
3	Ida Elizabeth George	Group song – Western Third Prize	National InterUniversity Competition	InterUniversity
4	Ida Elizabeth George	Group song – Western First Prize	MG University Inter Collegiate kalolsavam	University

## Appendix -28

## Any special achievement of any student in any area – curricular or co-curricular

Sl.No	Name of the student	Item	Event	Level
1	Seena Elizabeth John Mebin George Varghese	Second in Quiz	World Environment Day Celebrations, held by Department of Biotechnology, CMS College, Kottayam	College
2	Sruthy Sara Reji	Second in Quiz	“Zoonosis”- Seminar on Animal Disease Control Project by Department of Animal Husbandry	District
3	Aparna Vasudevan Misrain Fathima Sreelakshmi P.U. Bharat Chandran	Consolation	“Zoonosis”- Seminar on Animal Disease Control Project by Department of Animal Husbandry	District
4	Mebin George Varghese	First in Scientific Drawing	Zoofest—NSS College, Changanasserry	District
		Third Spell Check		
5	Seena Elizabeth John	Second	Zoofest—NSS College, Changanasserry	District
6	Mariya Jacob	Third Poster Designing	Zoofest—NSS College, Changanasserry	District
7	Amita Susan Mathew Pooja S.	Second in Quiz	Zoofest—NSS College, Changanasserry	District

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8	Mebin George Varghese	Poster Designing First	Pulses-Seed for sustainable future-Seminar by Department of Botany, CMS College, Kottayam	College
		Recipe Contest First		
9	Mebin George Varghese	First Powerpoint presentation	Assumption College	
10	D. Adithya Krishna	Third Powerpoint presentation	Assumption College	
11	Mebin George Varghese Seena Elizabeth John	Rapid Identification First	Vanya 2016-Alphonsa College, Pala	District
12	AnuPriyaVenu	First Caption Writing	Vanya 2016-Alphonsa College, Pala	District
13	Archa K. Anil Shilpa S. Balamani	Treasure Hunt Second	Vanya 2016-Alphonsa College, Pala	District
14	Mebin George Varghese Seena Elizabeth John	Petfie Contest First	Online Selfie (Petfie) Contest-Baselios College	
15	Mebin George Varghese	Poster Designing First	K.G. College, Pampady	
		Rapid Identification First		
16	Mebin George Varghese Seena Elizabeth John	Quiz Second	K.G. College, Pampady	
17	D. Adithya Krishna	Caption Writing First	K.G. College, Pampady	
		Essay Writing second		
		Powerpoint presentation second		

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<b>18</b>	Seena Elizabeth John	Crossword Second	K.G. College, Pampady	
<b>19</b>	Mebin George Varghese	Pencil drawing First	Wetland Life- Department of Biotechnology, CMS College, Kottayam	College
<b>20</b>	Mebin George Varghese	Scientific Drawing First	Xancus-Nirmala College, Muvattupuzha	
<b>21</b>	Mebin George Varghese Seena Elizabeth John Aswathy K.G MeghaMurali Mahesh Christopher Anandhu V. Sudhakar	Vembanad water bird count	January	District

## Appendix -29

## Association Activities

Sl.No	Programme	Output/ Benefit	Participants	Date
1	Invited talk	Awareness	BSc. And MSc. Students	04/08/2016
2	Publishing of Manuscript magazine	Artistic and writing skills	BSc. And MSc. Students	04/08/2016
3	Cultural fest	Talents, Self confidence	BSc. And MSc. Students	04/03/17
4	Onam Celebration	Working in group, Cultural awareness	BSc. And MSc. Students	02/09/16
5	Christmas Celebration	Working in group, Cultural awareness	BSc. And MSc. Students	13/12/16

## Appendix- 30

Give a list of students getting each scholarship, grant, assistance etc.

Sl.No	Name of the student	Class	Type of Scholarship	Amount

## Appendix -31

## Accounts of the department

Receipts / Income	Amount in Rs.	Payments / Expenditure	Amount in Rs
PTA	35,000	35,000	35,000
1972 batch UG Alumni	20,000	20,000	20,000
1985 batch PG Alumni	5,000	5,000	5,000
Seminar ( Brain Awareness Week)	15,900	15,900	15,900
Extension work 1. Exhibition 2. Mushroom cultivation	31,381	31,381	31,381
Curriculum workshop	20,000	20,000	20,000
<b>Total</b>	<b>1,27,281</b>	<b>Total</b>	<b>1,27,281</b>



**Suggested actions /Performance**

1. TRAINING FOR BETTER PERFORMANCE IN JOB INTERVIEW
2. BUDDING SCIENTIFIC APTITUDE IN STUDENTS BY SHORT TERM PROJECTS,GROUP ACTIVITIES,DEBATES
3. ORGANIC FARMING
4. CONSERVATION OF ENDANGERED INDIGENOUS VARIETIES
- 5.