PROFORMA FOR SUBMISSION OF PROGRESS REPORT FOR EVALUATION TO STAR STATUS BY
COLLEGES SUPPORTED UNDER THE STAR COLLEGE SCHEME
(BT/HRD/11/019/2017)

(2017 to 2020)

SUBMITTED TO
THE DEPARTMENT OF BIOTECHNOLOGY
GOVERNMENT OF INDIA

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)
REDFIELDS, COIMBATORE – 641018, TAMILNADU
Accredited with 'A' grade by NAAC in the III cycle
Awarded star status to the Departments of Botany, Chemistry and Zoology
Supported by DST-FIST at the zero level

JULY 2020

1. **Name of the College** :   Nirmala College for Women (Autonomous), Redfields,
                                Coimbatore – 641018, Tamilnadu

2. **Name of Coordinator**: Dr Pawlin Vasanthi Joseph
   Designation: Associate Professor and Head
   Address :   Department of Zoology, Nirmala College for Women
                             (Autonomous),
                             Redfields, Coimbatore – 641018, Tamilnadu
   Phone nos.:   9655513364

3. **Assessment duration** : 16/06/2017 to   16/05/2020   **Duration in years** : 3 years

4. **Details of Departments Supported: Mathematics, Computer Sciences and Geography**

S.No	Name of Department	Courses (B.Sc./M.Sc./PG Diploma, certificate etc) offered	Total Faculty	Regular Faculty members	
				With Ph.D	Without Ph.D
1.	**Mathematics**	B.Sc.Mathematics M.Sc. Mathematics PG Diploma – Post Graduate Diploma in Operations Research	11	10	1
2.	**Computer Sciences**	B.Sc CS., M.Sc. CS., BCA B.Sc IT., Certificate course in Multimedia Post Graduate Diploma in Computer Applications (Affiliated to Bharathiar University)	18	02	16

3.	**Geography**	B.Sc. M.Sc.(till 2017) Certificate Course in GIS	05	02	03

5. **Number & Date of Advisory committee meeting**:

Advisory Committee Meeting – 28.06.2017, Dr Suman Govil, Advisor, Department of Biotechnology, Government of India was the Chairperson.

Mentor's Meeting:

Department	Year	Date	Mentor/Institution
Mathematics	2017 -2018	19.07.2017 22.03.2018	Dr. R.Udhaya Kumar, Associate Professor & Head of the department of Mathematics, Gandhigram Institute, Gandhigram, TamilNadu
	2018-2019	02.07. 2018 11.02.2019	Dr. R.Udhaya Kumar, Associate Professor & Head of the department of Mathematics, Gandhigram Institute, Gandhigram, TamilNadu
	2019-2020	18.07.2019 19.03.2020	Dr.R.Kala, Professor and Head,Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli
Computer Sciences, Computer Application, Information technology	2017 -2018	28/07/2017	Dr.K.Thangavel , Professor & Head, Periyar University, Salem
		10/08/2017	Dr.N.Jeyakumar, Professor & Head, Bharathiyar University, Coimbatore
		24/03/2018	Dr.K.Thangavel , Professor & Head, Periyar University, Salem Dr.N.Jeyakumar ,Professor & Head, Bharathiar university, Coimbatore
	2018-2019	05/03/2019	Dr.Vinod Murti ,Country Head, IOA , Bangalore Dr.G.Satyavathy , Associate Professor, Sri Ramakrishna College of Arts & Science For Women, Coimbatore

		08/03/2019	Dr.N.Jeyakumar ,Professor & Head, Bharathiar university, Coimbatore.
	2019-2020	09/01/2020	Dr.P.Subashini , Professor, Avinashilingam University, Coimbatore Mrs.S.Sivashankari , Assistant Professor, Nirmala College for Women, Coimbatore
Geography	2017-2018	29.9.2017	Dr.Sulochana Shekhar, Professor & Head, Department of Geography, Central University of Tamil Nadu, Thiruvarur
		23.03.2018	Dr.Sulochana Shekhar, Professor & Head, Deaprtment of Geography,Central University of Tamil Nadu, Thiruvarur
	2018-2019	16.08.2018	Dr.Sulochana Shekhar, Professor & Head, Department of Geography, Central University of Tamil Nadu, Thiruvarur
		04.03.2019	Dr.Sulochana Shekhar, Professor & Head, Department of Geography, Central University of Tamil Nadu, Thiruvarur
	2019-2020	31.08.2019	Mr.Tamilarasan, Head & Associate Professor, Govermnent Arts College(Aut). Karur
		29.02.2020	Mr.Tamilarasan, Head & Associate Professor, Govermnent Arts College(Aut). Karur

6.   Qualitative improvements due to DBT support. Please highlight 5 salient points (within 500 words).

Department	Qualitative improvements
Mathematics	• A Certificate Course in Astronomy was introduced for the students of Physics, Mathematics (SF) and Mathematics (Aided) students. • Emphasis was given on Data Analytics for the II B.Sc. and III B.Sc. Mathematics (Aided) students as it is the need of the hour. • A training programme in R Language was organized for II B.Sc.Mathematics (Aided) students to enhance their statistical skills and to do real time projects.

	• SCILAB was taught to II B.Sc. Mathematics students to know about mathematical applications. • Symposium on Analysis was organized for the III B.Sc. Mathematics students to enhance their understanding on the basic mathematical concepts.
Computer Science **Computer Application,** **Information technology**	• New lab experiments have been introduced with hands-on training. • Students have published papers in their Post graduation in Nirmala Annual Research Congress(NARC) ISBN:978-93-5391-196-6 after attaining training programs conducted in their UG classes. • Group Android Application Project is developed by our students. ▪ Plant search ▪ College phone book • Faculty is encouraged to take up more research based projects along with the students • Industrial visit exposed the students to the utilization of tools and techniques in computations in BioInformatics and Molecular docking.
Geography	• Students were exposed to field studies in different landforms and geomorphologic features with DBT amount. • Students were able attend workshops and trainings in esteemed scientific institutions related to our discipline. • The department has been able to purchase several GPS units which will help the students to carry out field surveys in smaller groups • The department had the opportunity to organize many hands on training and workshops in advanced techniques of survey, GIS and Remote sensing and workshops on advanced techniques in surveying- Total Station, DGPS and Drone Surveying. • Books and journals, multiple copies bought by DBT amount has given ample opportunity to students. • The funding has enabled the department to carry out an effective extension program for schools. • To revive the importance of the subject Geography, symposium conducted were reaching out to other colleges and school students.

Indicate 5 projects of students which have recognition

Department	Year	LIST OF PROJECTS (TOPICS)	NO. OF STUDENTS (UNDER THE PROJECT)
Mathematics	**2017-18**	1.14 projects on R language	57
		2.5 group projects in MATLAB	50
	2018-19	1.9 group projects in Mathematics	51
	2019-2020	1.14 group projects in R Language	53
B. Sc., Computer Science	**2017-18**	5 Projects in Java	15
		6 Projects in PHP	13
BCA		7 Projects in Java	21
		10 Projects in PHP	21
B.Sc (Information Technology)		4 Projects in Java	12
		7 Projects in PHP	17
B. Sc., Computer Science	**2018-19**	3 Projects in PHP	6
		3 Projects in .NET	6
		3 Projects in ANDROID	6
BCA		2 Projects in PHP	4
		2 Projects in .NET	4
		3 Projects in ANDROID	6
B.Sc., Information technology		3 Projects in PHP	6
		2 Projects in .NET	4
		3 Projects in ANDROID	6

Geography	2017-18	Group I- Survey of Campus features using GPS	14
		Group II- Survey off Campus features using GPS	13
	2018 - 2019	Survey and assessment of campus features using total station and and DGPS - group of 8 students	8
		Aerial Survey of campus using drone and mapping- group of 8 students	8
		Extraction of Surface water bodies using Remote Sensing Techniques, a case study of Madurai District- group of 8 students	8
		Identification of Urban Sprawl Using Remote Sensing- group of 8 students	8
		Rainfall Trend Analysis of Coimbatore District over the last 5 decades- group of 7 students	7

7. **Any Novel aspect introduced or planning to introduce during the Scheme duration.**
Innovations introduced in these 3 years (2017 to 2020)

Department	Innovations introduced during support
Mathematics	MATLAB (Theory & Practical) paper was introduced for II B.Sc Mathematics students in the III Semester since 2017 - 2018 onward. Through the knowledge gained, the students were able to complete group projects.
Computer Sciences	1. New programming languages BioPerl Programming lab and BioPython Programming Lab widely used now has been introduced. 2. Hands on trainings, Guest Lectures and workshops on biotechnology tools, techniques and application areas were organized. 3. Students who were trained have achieved outstanding student awards in paper presentation in other colleges.

Department	Innovations to be introduced
	4. Industrial visit made the students to gain knowledge about Computational Biology and lively usage of tools and techniques that are used in real time environment.
Geography	1. The undergraduate student is exposed to all kinds of new technology in terms of geographical Information System and Remote sensing software and survey techniques which will encourage them to take up their career in varied fields. 2. A certificate course in Geographical Information system was introduced for undergraduate students which gave training for them in mapping.

Plan for Innovations if Star Status is provided:

Department	Innovations to be introduced
Mathematics	1. MATLAB can be used efficiently to explore, analyze and visualize the data. It makes data science easy and accessible to everyone. 2. Understanding the need of the day, we are now planning to introduce Data Analytics with R and PYTHON languages, since MATLAB has already been introduced to the students.
Computer Sciences	1. AI based research on biological datasets are to be focused on for student and faculty research work. 2. Training programmes on computer-aided drug design techniques that uses computational methods in order to analyze drugs and similar biologically active molecules 3. Workshops on Molecular Docking tools and techniques 4. Projects on Digital Image Forensics using DNA and such biological dataset for crime-data analysis are to be focused and lab facilities are to be enhanced to incorporate training and implementation of projects using big data tools and datasets. 5. Tableau and other similar big data analytical tools are to be purchased. 6. Also planned to conduct interdisciplinary programmes supporting the star status departments to promote their products developed online through digital marketing

	that could enhance their usability and rating as part of entrepreneurship.
Geography	1. Department plans to collaborate with Indian Institute of Remote sensing to have a nodal license to provide certificate and diploma course in Remote Sensing.
	2. More employment oriented course and need of the hour like certificate and diploma course in Disaster Management and survey techniques will be initiated and conducted for Geography students and later for the interested students in the entire college also.
	3. Introduce Hydrological studies which also form an important part of geographical analysis which can result in quality research work.
	4. Department also plans to collaborate with local self government for mapping the resources and utility services.

8. **Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant. (Max 3 points within 300 words).**

Department	Lessons learnt/Difficulties faced/suggestions
Mathematics	1. Timely disbursement of funds will enable us to carry out our planned events smoothly within the stipulated time.
Computer Sciences	1. To accomplish full advantages of the activities, assets can be granted for the maintenance of the equipments purchased.
	2. Requisition for utilizing the funds for the PG streams.
Geography	1. Since the fund is released towards the end of first semester, homogenous distribution of activities through the academic year is not possible. All the activities have to be conducted towards the end of the semester.
	2. Summer and winter training is not always available in the institutions which are accessible and some are so expensive that the students find it difficult to attend.

9. Key performance Indicators

9.1 Number of students admitted: All Females

Department	Period	Year	SC	ST	OBC	GEN	Total
Mathematics	**Pre**	2014-15	17	-	143	8	**168**
	support	2015-16	16	-	143	9	**168**
	period	2016-17	13	-	141	6	**160**
	Post	2017-18	14	-	132	7	**153**
	Support	2018-19	16	-	135	4	**155**
	period	2019-20	20	-	129	6	**155**
Computer sciences							
Computer science	**Pre**	2014-15	6	-	34	8	**48**
	support	2015-16	4	-	30	13	**47**
	period	2016-17	2	-	41	25	**68**
	Post	2017-18	9	1	31	14	**54**
	Support	2018-19	10	-	29	25	**64**
	period	2019-20	8	-	27	9	**44**
Computer Application	**Pre**	2014-15	6	-	34	8	**48**
	support	2015-16	4	-	30	13	**47**
	period	2016-17	2	-	41	25	**68**
	Post	2017-18	9	1	31	14	**54**
	Support	2018-19	10	-	29	25	**64**
	period	2019-20	8	-	27	9	**44**
Information Technology	**Pre**	2014-15	1	1	16	7	**25**
	support	2015-16	5	-	19	18	**32**
	period	2016-17	6	-	29	14	**49**
	Post	2017-18	2	-	35	8	**45**
	Support	2018-19	9	-	28	13	**50**
	period	2019-20	9	-	28	11	**48**
Geography	**Pre**	2014-15	14	0	31	3	**48**
	support	2015-16	11	0	32	2	**45**
	period	2016-17	10	0	31	2	**43**
	Post	2017-18	17	2	26	3	**48**
	Support	2018-19	10	0	33	2	**45**
	period	2019-20	10	1	38	0	**49**

9.2 No of students passing out in %

Department	Period	Year	No of students appeared	No of students cleared	Pass%
Mathematics	**Pre support period**	2014-15	48	48	100%
		2015-16	57	55	96.49%
		2016-17	54	53	98.15%
	Post Support period	2017-18	54	54	100%
		2018-19	50	49	98.04%
		2019-20	44	Exams not conducted	
Computer sciences					
Computer science	**Pre support period**	2014-15	38	32	86
		2015-16	37	36	97.30
		2016-17	42	42	100
	Post Support period	2017-18	38	33	86.84
		2018-19	31	31	100
		2019-20	39	Exams not conducted	
Computer Application	**Pre support period**	2014-15	48	42	88
		2015-16	60	59	98.30
		2016-17	35	34	97.14
	Post Support period	2017-18	50	44	88
		2018-19	42	42	96
		2019-20	60	Exams not conducted	
Information Technology	**Pre support period**	2014-15	25	22	88
		2015-16	43	43	100
		2016-17	26	26	100
	Post Support period	2017-18	24	24	100
		2018-19	31	31	100
		2019-20	45	Exams not conducted	

Geography	Pre support period	2014-15	30	27	90
		2015-16	27	23	85
		2016-17	33	27	82
	Post Support period	2017-18	35	31	89
		2018-19	27	27	100
		2019-20		Exams not conducted	

9.3 Drop out rate of students

Department	Period	Year	Total no of students	No of students dropped out	Drop out rate %
Mathematics	Pre support period	2014-15	148	2	1
		2015-16	168	0	0
		2016-17	160	0	0
	Post Support period	2017-18	153	5	3
		2018-19	155	0	0
		2019-20	155	0	0
Computer sciences					
Computer science	Pre support period	2014-15	143	3	0.08
		2015-16	145	2	0.04
		2016-17	127	4	0.10
	Post Support period	2017-18	152	4	0.10
		2018-19	146	2	0.05
		2019-20	149	1	0.02
Computer Application	Pre support period	2014-15	143	4	0.10
		2015-16	145	3	0.06
		2016-17	127	11	0.20
	Post Support period	2017-18	152	9	0.20
		2018-19	146	6	0.10
		2019-20	149	3	0.07
Information Technology	Pre support period	2014-15	94	1	0.02
		2015-16	93	1	0.03
		2016-17	81	2	0.08

	Post Support period	2017-18	100	2	0.06
		2018-19	124	2	0.04
		2019-20	131	2	0.04
Geography	Pre support period	2014-15	105	2	0.01
		2015-16	106	5	0.04
		2016-17	111	6	0.05
	Post Support period	2017-18	126	7	0.05
		2018-19	111	17	0.15
		2019-20	124	8	0.06

9.4 No of students opting for M.Sc

Department	Period	Year	Total no of students	No of students opting for M.Sc
Mathematics	Pre support period	2014-15	48	32
		2015-16	57	16
		2016-17	54	34
	Post Support period	2017-18	54	18
		2018-19	50	33
		2019-20	44	26
Computer sciences				
Computer science	Pre support period	2014-15	38	06
		2015-16	37	11
		2016-17	42	15
	Post Support period	2017-18	38	13
		2018-19	31	20
		2019-20	39	32
Computer Application	Pre support period	2014-15	48	05
		2015-16	60	16
		2016-17	35	09
	Post Support period	2017-18	50	15
		2018-19	42	10
		2019-20	60	46

Information Technology	Pre support period	2014-15	25	03
		2015-16	43	09
		2016-17	26	05
	Post Support period	2017-18	24	08
		2018-19	31	07
		2019-20	45	35
Geography	Pre support period	2014-15	30	6
		2015-16	27	7
		2016-17	33	5
	Post Support period	2017-18	35	7
		2018-19	27	8
		2019-20	39	9

9.5 Average marks obtained

Department	Period	Year	Average marks Obtained in %
Mathematics	Pre support period	2014-15	76
		2015-16	75
		2016-17	75
	Post Support period	2017-18	79
		2018-19	80
		2019-20	-
Computer sciences			
Computer science	Pre support period	2014-15	77
		2015-16	77
		2016-17	76
	Post Support period	2017-18	77
		2018-19	78
		2019-20	-
Computer Application	Pre support period	2014-15	76
		2015-16	76
		2016-17	77
	Post Support period	2017-18	78
		2018-19	73
		2019-20	-

Information Technology	Pre support period	2014-15	78
		2015-16	76
		2016-17	78
	Post Support period	2017-18	80
		2018-19	77
		2019-20	-
Geography	Pre support period	2014-15	59
		2015-16	57
		2016-17	64
	Post Support period	2017-18	61
		2018-19	64
		2019-20	-

9.6 . No of hands on experiments conducted

Department	Period	Year	No of Hands on experiments conducted
Mathematics	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	5
		2018-19	5
		2019-20	2
Computer sciences			
Computer science Computer Application Information Technology	Pre support period	2014-15	4
		2015-16	3
		2016-17	2
	Post Support period	2017-18	7
		2018-19	3
		2019-20	4
Geography	Pre support period	2014-15	1
		2015-16	1
		2016-17	1
	Post Support period	2017-18	5
		2018-19	3
		2019-20	4

9.7. No of new experiments introduced

Department	Period	Year	No of new experiments introduced
Mathematics	Pre support period	2014-15	Based on Autonomous syllabus - C Practicals
		2015-16	
		2016-17	
	Post Support period	2017-18	10 Practicals in MATLAB
		2018-19	
		2019-20	
Computer sciences			
Computer science Computer Application Information Technology	Pre support period	2014-15	Based on Autonomous syllabus
		2015-16	
		2016-17	
	Post Support period	2017-18	**For II years- Skill Based Elective I :** Assembly Language & Bio python Programming Lab-8 Practicals. **For III years- Skill Based Elective III:** Case Tools And Bio Perl Lab-8 Practicals.
		2018-19	
		2019-20	
Geography	Pre support period	2014-15	Based on Autonomous syllabus
		2015-16	
		2016-17	
	Post Support period	2017-18	I Year-Basics of mapping- 1. Data Input 2. Map Layout and Scale Creation II Year-Cartography- 1. Geo Referencing 2. Vectorization – Point, Line, Polygon and Editing 3. Creation of Simple Thematic Maps III Year-Survey- 1. GPS Survey and Mapping
		2018-19	
		2019-20	

9.8. No of Publications (Scopus indexed)/ Patents if any

Department	Period	Year	No of Publications (scopus indexed)
Mathematics	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	2
		2018-19	5
		2019-20	5

Computer sciences			
Computer science	Pre support period	2014-15	-
		2015-16	-
		2016-17	1
	Post Support period	2017-18	1
		2018-19	-
		2019-20	2
Computer Application	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	2
		2018-19	-
		2019-20	2
Information Technology	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	-
		2018-19	-
		2019-20	-
Geography	Pre support period	2014-15	-
		2015-16	1(UGC)
		2016-17	-
	Post Support period	2017-18	-
		2018-19	5(UGC)
		2019-20	4(UGC)

9.9. Training received by faculty

Department	Period	Year	Training received by faculty
Mathematics	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	4
		2018-19	-
		2019-20	1
Computer sciences			
Computer science	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	6
		2018-19	9
		2019-20	17

Computer Application	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	3
		2018-19	6
		2019-20	18
Information Technology	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	2
		2018-19	5
		2019-20	8
Geography	Pre support period	2014-15	1
		2015-16	-
		2016-17	-
	Post Support period	2017-18	-
		2018-19	2
		2019-20	5

9.10. Exhibitions/seminars/training courses conducted

Department	Period	Year	Exhibitions	Seminars	Training courses
Mathematics	Pre support period	2014-15	-	1	-
		2015-16	-	2	-
		2016-17	-	2	-
	Post Support period	2017-18	-	4	2
		2018-19	-	1	3
		2019-20	-	1	3
Computer sciences					
Computer science	Pre support period	2014-15	-	-	7
		2015-16	-	1	1
		2016-17	-	-	2
	Post Support period	2017-18	-	-	8
		2018-19	1	2	3
		2019-20	-	-	6
Geography	Pre support period	2014-15	-	-	1
		2015-16	-	-	1
		2016-17	1	-	3
	Post Support period	2017-18	1	1	6
		2018-19	1	2	3
		2019-20	0	1	4

9.11. Books/journals subscribed from grants

Department	Period	Year	No of Books purchased	Amount in Rs/-	Grant	Journals subscribed
Mathematics	Pre support period	2014-15	10	6199/-	UGC	1
		2015-16	25	18016/-	Autonomous fund	1
		2016-17	12	7072/-	Autonomous fund	-
		2017-18	16	9964/-	DBT	-
		2018-19	-	-	-	1
		2019-20	10	20656/-	DBT	3
Computer sciences						
Computer science Computer Applications Information Technology	Pre support period	2014-15	147			
		2015-16	66	33910/-	Autonomous grant	
		2016-17	-	-	-	-
	Post Support period	2017-18	23	17000/-	Autonomous grant, DBT	11
		2018-19	-	-	-	-
		2019-20	5	3000/-	DBT	11
Geography	Pre support period	2014-15	5	2000/-	Autonomous fund	
		2015-16	12 +24+88	18,000/-	Autonomous fund, PG fund	1
		2016-17	42+26+7	16,000/-	Autonomous fund, PG fund	1
	Post Support period	2017-18	56	16,293/-	DBT	-
		2018-19	56	18647/-	DBT	-
		2019-20	51	25,050	DBT	-

9.12. Outreach activities (Popular lectures)

- **Popular lecture series on "Basic concepts and recent advances in Modern Biology/ Biotechnology" funded under the DBT-CTEP Scheme** on Feb 27th 2020, by the Departments of Botany, Chemistry, Zoology, Mathematics, Computer Science and Geography.
  Resource Persons : 1. Dr.Dipankar Nandi, Professor, Dept.of Biochemistry, Indian Institute of Science, Bangalore.
  2. Dr.BalaSubramanian Nagaraj, Associate Professor , Dept.of Biology, Indian Institute of Science Education and Research, Pune.
  3. Dr.Angayarkani , Associate Professor, Dept.of Microbial Biotechnology, Bharathiar University, Coimbatore.

Department	Period	Year	Outreach activities/popular lectures
Mathematics	Pre support period	2014-15	-
		2015-16	-
		2016-17	-
	Post Support period	2017-18	1
		2018-19	2
		2019-20	4
Computer sciences			
Computer science	Pre support period	2014-15	1
		2015-16	1
		2016-17	1
	Post Support period	2017-18	1
		2018-19	1
		2019-20	1
Computer Application	Pre support period	2014-15	1
		2015-16	1
		2016-17	1
	Post Support period	2017-18	1
		2018-19	1
		2019-20	1
Information Technology	Pre support period	2014-15	1
		2015-16	1
		2016-17	1
	Post Support period	2017-18	1
		2018-19	1
		2019-20	1
Geography	Pre support period	2014-15	1
		2015-16	2
		2016-17	2
	Post Support period	2017-18	2
		2018-19	3
		2019-20	1

9.13. Colleges mentored to apply for DBT Star College grants

Department	Colleges mentored to apply for DBT
Mathematics Computer Science Computer Application Information Technology Geography	**2019-2020** **Mentee Institutions under the UGC Paramarsh scheme** 1.Erode Christian college - Erode 2. AG College of Arts & Science – Tirupur 3.Keepyee College – Kothagiri 4. Angappa College – Coimbatore 5. Bhishop Ambrose College – Coimbatore

9.14. Invited lectures

Department	Period	Year	Invited Lectures
Mathematics	Pre support period	2014-15	3
		2015-16	4
		2016-17	4
	Post Support period	2017-18	17
		2018-19	18
		2019-20	7
Computer sciences			
	Pre support period	2014-15	3
		2015-16	6
		2016-17	3
	Post Support period	2017-18	5
		2018-19	6
		2019-20	18
Geography	Pre support period	2014-15	5
		2015-16	3
		2016-17	1
	Post Support period	2017-18	14
		2018-19	9
		2019-20	4

Proofs (S.No. 6-14 not more than 5 pages, 1.5 line spacing 11 times roman font size) to be provided duly attested by Principal and Coordinator:

Annexed

10. Self evaluation

Department	Objectives	% achieved	Quantitative metrics of objectives achieved
Mathematics	1. To learn the new features and commands of MATLAB for technical computing 2. To inculcate the efficient use of R language for effective inferences 3. To train students in technical document preparation using Latex 4. To coach the students for effective use of open- source language SCILAB 5. To upgrade with new hardware, software to conduct workshops and hands on training for the student community and the faculty. 6. To conduct Seminars and Symposiums for familiarizing the students with recent trends in Mathematical concepts	100%	All the objectives were achieved under the financial support of the DBT scheme.- Achieved -(10/10)
Computer Sciences	1. To conduct outreach programs, guest lecture, exhibitions, seminar, workshop on Bio-Computing with Python and Bio-Perl. 2. Faculty development program to enhance the knowledge in bio-informatics and to be motivated to carry out their research related to Bio-technology along with the students. 3. To have Field trip for the students to bio-informatics centre to avail the knowledge and techniques used in the industry.	70%	Inadequate number of systems and higher end software could not be loaded into the lab systems so they need to be upgraded Animation software is expensive to be purchased Achieved - (7/10)

	4. To make interest for students to focus on research oriented projects and publish their work in reputed journals. 5. Inclusion of Animation syllabus and practical in the curriculum of the students.		
Geography	1. To introduce basic concepts of Geographical Information System 2. To provide the students with facilities for hands on experiences with the GIS Softwares and GPS 3. To instill an interest and impart knowledge regarding GPS survey and mapping using GIS . 4. Field trips to areas of geographic interest both physical and socio economic. Hands on training in GIS and GPS 5. Measures to upgrade skills of faculty Retraining of faculty through organization of workshops for the department for the new practical By attending training programs organized by various departments in the required field	80% achieved	80 % of the objectives were achieved under the assistance of DBT Funding. Faculty training was not possible due to the non availability of training during the holidays Achieved - (8/10)

11. Two new dimensions that shall be added if accorded Star status

Department	New dimensions to be added
Mathematics	• Mathematics acts as a pre-requisite for machine learning because machine learning is mathematics. Machine learning enables, analysis of massive quantities of data. • Big data analytics is the process of extracting useful information by analyzing different types of big data sets. Since this is instrumental to discover hidden patterns, market trends and consumer preferences for the benefit of organization's decision making, it would be a career enhancement for the undergraduate students to avail job opportunities.

Computer Sciences	• Hands on training in Bioinformatics and Life Sciences for the students which will help them to develop IOT projects. • New systems have to be purchased for Animation and graphics to train the students to work with multimedia tools for cutting edge and innovative advancements like Artificial Intelligence, Machine learning, Virtual Reality, Extended Reality, Augmented Reality, Testing Tools, Robotics, Internet of Things, Data Analytics, Latex, designing tools, and Digital Marketing through Workshops, hands on training programs.
Geography	• On according star status Department plans to collaborate with Indian Institute of Remote sensing to have a nodal license to provide certificate and diploma course in Remote Sensing • More employment oriented course and need of the hour like certificate and diploma course in Disaster Management and survey techniques will be initiated and conducted for Geography students and later for the interested students in the entire college also. • Introduce Hydrological studies which also form an important part of geographical analysis which can result in quality research work.

Course Co-ordinator   **Head of the   Institution**
  (With seal)   **(With seal)**

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)

ANNEXURES FOR PROOF OF KEY INDICATORS MENTIONED IN THE PROFORMA

9.6. No of Hands on experiments conducted

Department	DATE	TOPIC	RESOURCE PERSON	BENEFICIARIES
Mathematics	26.07.2017	Hands on Training in SPSS	Dr.Geetha Suresh, Associate Professor, Stevenson University, Baltimare, USA	25 (Other Departments)
	03.08.2017	Hands on Training in MATLAB	Mr.M.Kannan, Enthu Tech Solution Pvt Ltd, Coimbatore	50(II B.Sc Mathematics)
	24.11.2017	DBT Sponsored Workshop on LATEX	Dr.R.Malligarjunan, Assistant Professor, CBM College, Coimbatore	40(III B.Sc. Mathematics)
	21.12.2017	Workshop on "R" language	Ms. Nita Bhupathrai,Udaan Technologies PVt Ltd, Coimbatore	57(II B.Sc. Mathematics)
	16.02.2018	Hands on Training in SciLab	Dr.R.Rajeshwari, Assistant Professor, Department of Computer Applications, Bharathiar University	50(II B.Sc. Mathematics)
	19.01.2019	Hands on Training	Mr.Mohammed Yaboob, Human Recruitment and Project Manager, Coimbatore	51(III B.Sc. Mathematics)
	24.01.2019	Hands on Training on R-Language	Ms. Nita Bhupathrai, Udaan Technologies, Coimbatore	55(I B.Sc. Mathematics)
	16.02.2019	Hands on training on Content Development using office automation tools	Ms.Jansi Rani, Assistant Professor & HOD, Department of Information Technology, Nirmala College for Women, Coimbatore	56(I B.Sc. Mathematics)
	02.03.2019	Big Data Analytics	Dr.S.Kannimuthu, Associate Professor of Information Technology, Karpagam College of Engineering, Coimbatore.	44(III B.Sc. Mathematics)
	02.03.2019	Document Preparation	Mrs.Ann Usha Mangalam, Assistant Professor and Head, Department of Computer Science, Nirmala College for Women, Coimbatore	56(I B.Sc. Mathematics)
	12.12.2019	Hands on Training in R-Language	Dr. V. Vijayakumar, Professor, Department of computer science, Sri Ramakrishna College of Arts and Science, Coimbatore	55(II B.Sc. Mathematics)

			Dr. S. Lara Priyadharshini, Associate Professor, KV Institute of Management, Coimbatore	30(II B.Sc. Mathematics)
Computer Science , Computer Applications Information Technology	17.12.2019	Hands on Training -Data Analytics		
	16.09.2014	Multimedia Tool-Photoshop	1.Mr.Thyagarajan, Head Operation, Image Creative Education, Coimbatore. 2. Mr.Vignesh, Development Officer. Image Creative Education, Coimbatore.	110 students
	11.12.2014	Macromedia flash	1. Mr.Thyagarajan, Head Operation, Image Creative Education, Coimbatore. 2. Mr.Vignesh, Development Officer. Image Creative Education, Coimbatore.	150 students
	19.01.2015 & 20.01.2015	PHP Using Dream Weaver	1.Mr.Eshwaran, Technical Head, Poras Technologies, Coimbatore. 2. Mr.Nowshath, Business-D-Executive, Poras Technologies, Coimbatore.	156 students
	30.01.2015 & 31.01.2015	Networking Cisco Packet Tracer	1. Mr.Ashlie Jebasingh, Business Executive, Live wire , Coimbatore. 2. Mr.Sree Vignesh, Senior Faculty,Live Wire. Coimbatore.	137 students
	08.09.2015	Creating Mobile Application using Android	1.Mr.B.Ramanamoorthy,mobile application development trainer,YRSK Technologies, Coimbatore. 2. Mr.M.Karthikeyan, Technical Director YRSK Technologies, Coimbatore	158 students
	11.01.2016	Networking	1.Mrs. Sugapriya, IT Co-ordintor,Be-positive Institute for Skilling	170 students
	17.02.2016	Designing the web page.	1. Mr.Indira Mohan Senior Trainer 2D/3D Animation, Apex Animation Institution, Coimbatore. 2. Ms. Sapna Agarwal, Technical Head, Apex	170 students

		Animation Institution, Coimbatore.	
29.08.2016 & 30.08.2016	Android Mobile App Development	Ramkumar Arumgam - Android Developer & Trainer, Model Exam E-Learning Solutions, Madurai	201 students
24.11.2016 to 30.11.2016	ISTQB Certification training and workshop with international internship	Mr. S. Vibin Chandar, Campus head, Blue Crest University, Ghana, West Africa	182 students
20.07.2017 & 21.07.2017	Python Programming	1. Mr. Lakshmana Kumar Ramaswamy, Technical Trainer, Hindusthan Engineering & Technology, Coimbatore.	175 students
24.07.2017	Bio Python Programming	Dr.S. Sivashankari Asst. Prof of Bioinformatics, Nirmala College for Women, Coimbatore.	168 students
17.08.2017 & 18.08.2017	Bioperl Programming	1. Mr. Naveen Kumar Web Developer, Accent Techno Soft, Coimbatore & 2. Mr. S.M Nathan Web Developer, Accent Techno Soft, Coimbatore.	189 students
06.10.2017	R Programming And Analytics	Mr. D. Sai Natarajan, Software Trainer Gateway Software Solutions Coimbatore.	178 students
19.12.2017	Project Development Using Bioperl	Dr. D. Victor Arokia Doss Associate Professor, Department of Biochemistry, PSG College of Arts & Science, Coimbatore.	120 students
17.01.2018 & 18.01.2018	Linux	Dr. V. VijayaKumar, Controller of Examinations & Professor , Department of Computer Science, Sri Ramakrishna College of Arts & Science, Coimbatore.	115 students

	12.02.2018 & 13.02.2018	Advanced Python	Mr. Ranjith Kumar Senior Trainer, Be Positive Coimbatore.	110 students
	05.12.2018 - 06.12.2018	Digital Marketing	Mr.Santhosh Kumar Digital Marketing Analyst Nettel Solutions, Coimbatore	156 students
	07.12.2018	Web Developing	Ms.E.Karthiga Web Developer, Accent Techno Soft, Coimbatore	112 students
	07.12.2018, 10.12.2018 & 11.12.2018	Python Programming	Mr.R.Vijaya Kumar Technical Consultant Refinement Software solutions Coimbatore	124 students
	11/12/2019 to 12/12/2019	DESIGNER TOOLS	Ms.Rachel.S, Technical-Development and Mr.Jeevanraj.R from Aakkam industrial Training and Research Institute.	110 students
	10/01/2020& 11/01/2020	SELENIUM TOOL	Mr.Nagendhran Mani, Senior Test Engineer, Accent Technosoft, Coimbatore.	110 students
	18/02/2020 & 19/02/2020	APP DEVELOPMENT (**Under DBT**)	Mr.A.Ramkumar Android Developer & Trainer, Co-Founder of Model exam,Madurai.	121 students
	20.02.2020	Cyber Security Awareness	Dr.S.Suresh,Dean Student Affairs, Kalaignar Karunanidhi Institute of Technology,Coimbatore. Additional Head(National Cyber Security Defense Research Center) Mr.V.M.Prabhakaran Professor in CSE, Kalaignar Karunanidhi Institute of Technology,Coimbatore. (National Cyber Security Defense Research Center) Mr.M.Hari Prasanth Security Engineer,National Cyber Security Defense Research Center.	121 students

			Mr.E.Vijaya Kumar HOD in Department of MCA (Kalaignar Karunanidhi Institute of Technology) Coimbatore.	
Geography	09.07.14	Workshop on GPS	Mr. Badrinath, AIMIL, Chennai.	126 students
	13.08.2015	Workshop on the topic Personality development- "Who am I?"	Ms.Maheshwari, CRIF, Madurai	116 students
	05.10.2016 & 06.10.2016	Personality development workshop for I,II,IIIB.Sc Students	Ms. Maheshwari, CRIF, Madurai	111 students
	03.08.2017	Workshop on "Survey of India toposheets and its numbering" (under DBT scheme)	Dr. Maria Anita Anandhi Retd. Prof of Geography, Nirmala College for women	62 students
	12.12.2017	One day Workshop on "Disaster Awareness" (under DBT scheme)	Disaster Management Team from Sri Sathya Sai Organisation, Coimbatore	122 students
	20.12.2017	Workshop on GPS (under DBT scheme)	Mr. Karthikeyan C Cad Systems Mettupalayam Coimbatore.	116 students
	14.02.2018	Workshop on "Aerial Remote Sensing & Photogrammetry" (under DBT scheme)	R. Jegan Kumar Assistant Professor Department of Geography School of Geo sciences Bharathidasan University, Trichirapally	67 students
	29.11.2018	Workshop on Menstrual Hygiene & Environment (Under DBT Scheme)	Ms.Harshini Mukunthan Menstrual Health Educator Ecofemme, Auroville Pondicherry	114 students
	07.12.2018	Workshop on Bio Enzymes for Healthy Environment (Under DBT Scheme)	Ms.Chitra Raveendran Pranapurna Collective	117 students

	16.09.18 to 22.09.18	A residential workshop on "Creating a sustainable future "at Auroville, Pondicherry	Auroville, Pondicherry	1 staff and 3 students
	15.02.2019	Workshop on GPS (Under DBT Scheme)	Dr. Jegankumar R. Assistant Prof & Head Department of Geography Bharathidasan University Trichy -24	67 students
	27.07.2019	National Workshop at Bharatidasan University, Trichy "Popularization of Remote Sensing and GIS in Remote Areas"	Dr. Baburajendran, Department of Biotechnology. Dr. Kumarasamy, Chairman of ISRS, Trichy,	III B.Sc. Geography (3 students
	03.12.2019 to 05.12.2019	Hands on Training Course "Fundamentals of GIS and Remote Sensing"	Mr. Anand Sebastian, Mr. Vivek Ashokan, Mr. Rajan and Mr. Regendu, IRTC ,Mundur, Palakkad.	III B.Sc.Geography (14 Students)
	06.01.2020	Hands on training and Workshop on Total Station Survey, Differential Global Positioning System (DGPS) Survey, Drone survey (Under DBT)	Dr.Selva Raj, Mr.Praveen, Athira Geo Spatial Service Pvt.Ltd. No:1,Manimegalai Street, Pollikkaalamai,Chennai	36 Students
	03.02.2020	Workshop on Bioenzymes: natural cleaners for a safe living place	Mrs.Chitra Raveendran &Ms.Akhila Volunteers Pranapoorna Collective ,Coimbatore	169 faculty members

9.7. No of new experiments introduced

Department	Period	Year	No of new experiments introduced
Mathematics	Pre support period	2014-15	Based on Autonomous syllabus - C Practicals
		2015-16	
		2016-17	
	Post Support period	2017-18	10 Practicals in MATLAB
		2018-19	
		2019-20	
Computer science Computer Application Information Technology	Pre support period	2014-15	Nil
		2015-16	
		2016-17	
	Post Support period	2017-18	**For II years- Skill Based Elective I :** Assembly Language & Bio python Programming Lab
		2018-19	
		2019-20	

For the Post Support period (2017-18, 2018-19, 2019-20) the cell contains:

For II years- Skill Based Elective I :
Assembly Language & Bio python Programming Lab

1. Write an 8086 Assembly language program to perform Addition, Subtraction, Multiplication and Division of two multi-byte numbers and store the result as third number.
2. Write a 8086 Assembly language program to perform Logical Operations: Logical AND, OR, &, NAND.
3. Write an 8086 Assembly language program to sort an array in the ascending order.
4. Write an 8086 Assembly language program to perform String reverse operation.

BIOPYTHON:
1. Write a BIOPYTHON program to create a dictionary from two lists without losing duplicate values.
2. Write a BIOPYTHON program to print the nucleotide name from single letter code
3. Write a BIOPYTHON program to find the molecular weight of a DNA sequence.
4. Write a BIOPYTHON program to find the distance between points using class.

For III years- Skill Based Elective III:
Case Tools And Bio Perl Lab
CASE TOOLS:
1. Design a Use case diagram for ATM System.
2. Design a Class diagram for Library Management System.

		3. Design a Sequence diagram and Activity diagram for E-ticketing. 4. Design a State Chart diagram for Online Course Registration System. 5. Design a Component diagram and Deployment diagram for Recruitment System. **BIOPERL:** 6. Write a Bioperl program to retrieve a protein sequence in fasta format from Swissprot database. 7. Write a Bioperl program to retrieve a nucleotide sequence from Genbank database 8. Write a Bioperl program to translate a DNA sequence from Genbank to a protein sequence.		

Department	Period	Year	Content
Geography	Pre support period	2014-15	Nil
		2015-16	
		2016-17	
	Post Support period	2017-18	I Year-Basics of mapping- 1. Data Input 2. Map Layout and Scale Creation II Year-Cartography- 1. Geo Referencing 2. Vectorization – Point, Line, Polygon and Editing 3. Creation of Simple Thematic Maps III Year-Survey- 1. GPS Survey and Mapping
		2018-19	
		2019-20	

9.8. Publications of faculty

Department	Year	Title of Paper	Name of the Journal	Details on the impact factor in SCOPUS)
Mathematics	2017-2018	Dr. U. Mary & Manimekalai.S, Characterization of the Weiner index of Trees and Connected Graphs G with equal Domination and a cyclic domination Number r(G)=r(G) complement of Graphs	International Journal of Pure and Applied Mathematics	International, Page No: 441-446,Issn No: 1314-3395
		Dr.M.Trinita Pricilla & Arulpandy P, A note on Neutrosophic Vague P-spaces and weak Neutrosophic Vague P-spaces	International Journal of Mechanical and Production Enginnering Research and Development	International, Vol8 Issue 3,Page No: 1242-1250,Issn No: 2249-6890
	2018-2019	Dr. U. Mary & Manimekalai.S Various characteristics of few topological indices for stable graphs	International Journal of Engineering and Technology	International, Page No: 925-927,Issn No: 1314-3395

		Dr. U. Mary & Manimekalai.S Computation of Topological Indices using Python for Chemical Graph Structure	IOP Conference Series: Journal of Physics	International, Page No 1-6,Issn No: 1742-6596
		Dr. U. Mary & Manimekalai.S Computation of total Eccentricity using python Program	IOP Conference Series: Journal of Physics	International, Page No 1-8,Issn No: 1742-6596
		Dr. A. Sahaya Sudha & Revathy.M Linear Programming problem Using Fuzzy Z numbers to find optimality under uncertainty in vegetable Cropping	International journal of Pure and Applied Mathematics	International, Vol 119, Page No3293-3299
		Dr. A. Sahaya Sudha & Revathy.M Solving Linear programming Problem by means of fuzzy Z numbers	IOP Conference Series 1139: Journal of Physics	International, Page No 1-5
	2019-2020	Dr. U. Mary & Manimekalai.S Neighbourhood degree based index for graph operations related to composition	International Journal of Recent Technology and Engineering	International Page No: 8723-8728, Issn No: 2277 – 3878
		Dr. K. Mohana & Christy.V On Multi-criteria Decision Making problem via Bipolar single - valued Neutrosophic settings	Neutrosophic sets and system	International (UGC Care A & Scopus),ISSN No. 2331-6055 Pg No: 125-135
		Dr. F. Nirmala Irudayam & Madhumathi. T A note on Neutrosophic Chaotic continuous functions	Neutrosophic sets and systems	International (UGC Care A & Scopus)Vol 25, ISSN No. 2331-6055 Pg No: 76-84
		Dr. F. Nirmala Irudayam & Anitha.S On NGSR Closed sets in Neutrosophic Topological Spaces	Neutrosophic sets and system	International (UGC Care A & Scopus),ISSN No. 2331-6055 Pg No: 171-178
		Dr. A. Francina Shalini & Remya.P.B Neutrosophic Vague binary soft sets	Neutrosophic sets and system	International (UGC Care A & Scopus)Vol 29,P:g.No 227-241,ISSN No. 2331-6055
Computer Science	2017-18	K.Roselin Mary Clare Dept of CS New Harris Corner and Edge Descriptor for Partial-duplicate Mobile Search	International Journal of Control Theory and Applications	Scopus Indexed

		2017-18	K.Roselin Mary Clare Dept of CS Hybrid Harris Corner Detection Algorithm and Deblurred Image using PSO with Fast Subspace Clustering for Partial Duplicate Mobile Search	International Journal of Pharma and BioSciences	Scopus Indexed
		2017-18	S.Beula Princy Dept of CA Efficient Segmentation of blood vessels and optical disc in retinal images using generic optimized ANFIS	Journal of advanced research in dynamical and control systems	If: 1.2 Scopus Indexed
			S.Beula Princy Dept of CA Efficient Segmentation of blood vessels and optical disc in retinal images using firefly optimized ANFIS	International journal of pharma and Bio science IJPBS	If: 0.8 Scopus Indexed
		2019-2020	Dr.K.Gayathri Dept of CA Text Categorization Based on the relative amount or word Frequency in each classification	The International Journal Of Analytical And Experimental Modal Analysis(IJAEMA)	If: 6.3 Scopus Indexed
			S.Kulandai Teresa Dept of CA Enhanced Clustering Approach Based On Selecting Feature Subset For High Dimensional Data Through The Propositional Foil Rules	The International Journal Of Analytical And Experimental Modal Analysis(IJAEMA)	If: 6.3 Scopus Indexed
			C. Clement Sherlin Dept of CS A Comparison Clustering Techniques With Informative Genes For High Dimensional Data	The International Journal Of Analytical And Experimental Modal Analysis(IJAEMA)	If: 6.3 Scopus Indexed
			R.Ushadevi Dept of CS Impact Of Social Media on Youth In The Digitized Era	The International Journal Of Analytical And Experimental Modal Analysis(IJAE	If: 6.3 Scopus Indexed

				MA)
Geography	2017-18	**Dr.Jyothirmayi P** Erosion prone area and Watershed management in Valapattanam River Basin in Kannur District, Kerala,	Application of Remote Sensing, GIS and GPS Technologies	UGC approved, Ed.by I.K.Manonmani, Jayalakshmi Publications, Madurai pp.245-250 (2016)
	2018-19	**Dr.Jyothirmayi P** **Prioritization of areas for water conservation in Valapattanam river Basin Kannur district, Kerala-A geospatial Approach,**	International Journal of research in social sciences	UGC approved, Vol.9, issue3 (2) March 2019, ISSN 2249-2496.
		Meenakshi P. Evaluation of Groundwater Vulnerability to Contamination in Coimbatore District,	Journal of Geography, Environment and Earth Science	UGC approved, International,(ISSN 2454-7352), Vol.24(4),pp.1-17.
		A.Franchina Mary Morphometric Analysis of Moyar River Basin Using Geographical Information System	International Journal of Scientific Research and Review	UGC approved, (ISSN 2279-543x),Vol.8(1), pp.999-1008
	2019-20	A.Franchina Mary Morphometric Analysis of Siruvani River Basin Using Geographical Information System	International Journal of Research and Analytical Reviews	UGC approved, (E-ISSN 2348-1269),Vol.6(1)pp.396-401
		Sreelakshmy M Groundwater quality Assessment for sustainable developmeny by using Geospatial Techniques	Alfomine International Journal Part A(Sciences)	UGC approved, Vol 5, No 6, ISSN 2250-3870, 51-59.
		Dr.Jyothirmayi P Role of Relief and slope in Agricultural Landuse: A case study in Valapattanam River Basin In Kannur District, Kerala, Using GIS And Remote sensing.	Journal of Geography Environment and earth Science International	. UGC approved, Vol 21 (2), 1-11.ISSN:2454-7352
		Meenakshi P. Assessment of Groundwater Vulnerability to Contamination in Coimbatore District Using SI Method,	Thematic Journal of Geography	UGC approved, (ISSN: 2277-2995), Vol. 8(4).pp.298-307.
		A.FranchinaMary A geographical study of dynamics of land use pattern of Coimbatore cityusing Remote Sensing and GIS	Thematic Journal of Geography	UGC approved, (ISSN: 2277-2995), Vol. 8(4).pp.315-326.

		Sreelakshmy M Analysis Of Land Use / Land Cover And Change Detection Using Remote Sensing And Gis: A Case Study	Journal of Advanced Scientific Research	2020; 11 (2): 221-227 (UGC approved journal)

9.9. Training received by faculty

Department	Year	Date	Name of the faculty	Title	Organizer
Mathematics	2017-2018	05.07.2017-25.07.2017	Dr.A.Sahaya sudha	Refresher Course	Bharathiar University
		17.11.2017-14.12.2017	Dr.F.Nirmala Irudayam	Orientation Course Course	Bharathiar University
		17.11.2017-14.12.2017	Dr.M.Trinita Pricilla	Orientation Course Course	Bharathiar University
		17.11.2017-14.12.2017	Dr.K.Mohana	Orientation Course Course	Bharathiar University
	2019-2020	4/12/2019 - 17/12/2019	Dr.Sahaya Sudha	Refresher Course	Bharathiar University
Computer Science	2017-18	31/8/2017	Mrs.P. Avila Clemenshia	IBM Solutions Technical Conference-2017	IBM India Private Limited
		24/10/2017	Mrs.R.Uma Maheswari	Google Classroom and Online book publishing	Dr. G. Sathyavathy Asst. Prof. Department of Computer Science, Sri Ramakrishna College of Arts &Science for Women, Coimbatore.
		24/10/2017	Mrs.P. Avila Clemenshia	Google Classroom and Online book publishing	Dr. G. Sathyavathy Asst. Prof. Department of Computer Science, Sri Ramakrishna College of Arts &Science for Women, Coimbatore.

		24/10/2017	Mrs.C.Clement Sherlin	Google Classroom and Online book publishing	Dr. G. Sathyavathy Asst. Prof. Department of Computer Science, Sri Ramakrishna College of Arts &Science for Women, Coimbatore.
		24/10/2017	A.Ann Usha Mangalam	Google Classroom and Online book publishing	Dr. G. Sathyavathy Asst. Prof. Department of Computer Science, Sri Ramakrishna College of Arts &Science for Women, Coimbatore.
		24.02.2018	All the staff members	Internet of Things	Ms. N. Vijaya Technical Trainer, Beyond Zero Pvt. Ltd, Coimbatore.
	2018-19	27.11.2018	Mrs.P.Avila Clemenshia	Google Doc's, KAHOOT Apps and Online Book Publication	Department of mathematics , Nirmala College for women,Coimbatore
		14.12.2018	Mrs.R.Uma Maheswari	SPSS	Department of Botany, Nirmala College for women,Coimbatore
		19.01.2019	C.Clement Sherlin	Tuning Academic Research for Potential Funding Opportunities	Department of Chemistry, Nirmala College for Women, Coimbatore.
		22.01.2019	C.Clement Sherlin	Internet of Things	Department of Computer Science, Rathinam College of Arts Science, Coimbatore
		21.02.2019	A.Ann Usha Mangalam	Latex	Department of Computer Science, Computer Applications & Information Technology Nirmala College for Women, Coimbatore

		21.02.2019	Mrs.M.Lincy Jacquline	Latex	Department of Computer Science, Computer Applications & Information Technology Nirmala College for Women, Coimbatore
		04.03.2019	A.Ann Usha Mangalam	Google Doc's, KAHOOT Apps and Online Book Publication	Department of Mathematics, Nirmala College for Women, Coimbatore
		05.03.2019	A.Ann Usha Mangalam	Data Analytics With R	Department of Computer Science, Computer Applications & Information Technology Nirmala College for Women, Coimbatore
		05.03.2019	Mrs.R.Uma Maheswari	Data Analytics With R	Department of Computer Science , Computer Applications & Information Technology Nirmala College for Women, Coimbatore
	2019-20	30-10-2019	Mrs.R.Uma Maheswari	Innovative Teaching Stratergies	Curriculam Development Cell, Nirmala College for women, Coimbatore
		30-10-2019	Mrs.C.Clement Sherlin	Innovative Teaching Stratergies	Curriculam Development Cell, Nirmala College for women, Coimbatore
		30-10-2019	Mrs.P.Avila Clemenshia	Innovative Teaching Stratergies	Curriculam Development Cell, Nirmala College for women, Coimbatore
		30-10-2019	Mrs.S.Maria Sylviaa	Innovative Teaching Stratergies	Curriculam Development Cell, Nirmala College for women,Coimbatore

		30-10-2019	Mrs.Usha Devi	Innovative Teaching Stratergies	Curriculam Development Cell, Nirmala College for women,Coimbatore
		27-11-2019	Mrs.Ann Usha Managalam	Recent Trends And Techniques In Web Applications Development	Department of Computer science ,Computer Applicationa &Informatio Technology
		27-11-2019	Mrs.R.Uma Maheswari	Recent Trends And Techniques In Web Applications Development	Department of Computer science ,Computer Applications &Information Technology
		27-11-2019	Mrs.C.Clement Sherlin	Recent Trends And Techniques In Web Applications Development	Department of Computer science , Computer Applications &Information Technology
		27-11-2019	Mrs.P.Avila Clemenshia	Recent Trends And Techniques In Web Applications Development	Department of Computer science , Computer Applications &Information Technology
		27-11-2019	Mrs.S.Maria Sylviaa	Recent Trends And Techniques In Web Applications Development	Department of Computer science , Computer Applications &Information Technology
		27-11-2019	Mrs.Usha Devi	Recent Trends And Techniques In Web Applications Development	Department of Computer science , Computer Applications &Information Technology
		28-11-2019 & 29-11-2019	Mrs. Ann Usha Managalam	Web Application Development And Deployment Using Spring Framework	Department of Computer science , Computer Applications &Information Technology
		28-11-2019 & 29-11-2019	Mrs.R.Uma Maheswari	Web Application Development And	Department of Computer science, Computer Applications &

				Deployment Using Spring Frame work	Information Technology
		28-11-2019 & 29-11-2019	Mrs.C.Clement Sherlin	Web Application Development And Deployment Using Spring Framework	Department of Computer science, Computer Applications & Information Technology
		28-11-2019 & 29-11-2019	Mrs.P.Avila Clemenshia	Web Application Development And Deployment Using Spring Framework	Department of Computer science, Computer Applications & Information Technology
		28-11-2019 & 29-11-2019	Mrs.S.Maria Sylviaa	Web Application Development And Deployment Using Spring Framework	Department of Computer science, Computer Applications & Information Technology
		28-11-2019 & 29-11-2019	Mrs.Usha Devi	Web Application Development And Deployment Using Spring Framework	Department of Computer science , Computer Applications & Information Technology
	2017-18	24/10/2017	Mrs.E.Sylvia	Google Classroom and Online book publishing	Dr. G. Sathyavathy Asst. Prof. Department of Computer Science, Sri Ramakrishna College of Arts & Science for Women, Coimbatore.
		24/10/2017	Mrs.K.Gayathri,	Google Classroom and Online book publishing	Dr. G. Sathyavathy Asst. Prof. Department of Computer Science, Sri Ramakrishna College of Arts &Science for Women, Coimbatore.

		24.02.2018	All the Staff members	Internet of Things	Ms. N.Vijaya Technical Trainer, Beyond Zero Pvt. Ltd, Coimbatore.
	2018-19	27.11.2018	Ms. C. Mercy Praba	Google Doc's, KAHOOT Apps, and Online Book publishing	Department of Mathematics, Nirmala College for Women Coimbatore
		14.12.2018	Mrs. S. Kulandai Teresa	SPSS	Department of Botany , Nirmala College for women, Coimbatore
		22.01.2019	Mrs. S. Kulandai Teresa	International workshop	Department of Computer Science , Rathinam College of Arts and Science, Coimbatore
		19.01.2019	Dr. K. Gayathri	Tuning Academic Research for Potential funding opportunities	Department of Chemistry, Nirmala College for Women, Coimbatore.
		21.02.2019	Dr. K. Gayathri	Latex	Department of Computer Science,Computer Applications and Information Technology,Nirmala College for Women,Coimbatore.
		05.03.2019	Mrs. E. Sylvia	Data Analytics	Department of Computer Science,Computer Applications and Information Technology,Nirmala College for Wmen,Coimbatore.
	2019-20	30.10.2019	Mrs.E.Sylvia	Innovative Teaching Strategies	Curriculum Development Cell, Nirmala College For Women, Coimbatore

		27/11/2019	Mrs.E.Sylvia	Recent Trends in Techniques in Web Applications development	Department of Computer Science, Computer Applications and Information Technology.
		28-11-2019 to 29-11-2019	Mrs.E.Sylvia	Web Application Development and Deployment using Spring Framework	Department of Computer Science, Computer Applications and Information Technology.
		30.10.2019	Dr. Mrs. K. Gayathri	Innovative Teaching Strategies	Curriculum Development Cell, Nirmala College For Women, Coimbatore
		27/11/2019	Dr. Mrs. K. Gayathri	Recent Trends in Techniques in Web Applications development	Department of Computer Science, Computer Applications and Information Technology.
		28-11-2019 to 29-11-2019	Dr. Mrs. K. Gayathri	Web Application Development and Deployment using Spring Framework	Department of Computer Science, Computer Applications and Information Technology.
		30.10.2019	Dr. Ms. S. Beula Princy	Innovative Teaching Strategies	Curriculum Development Cell, Nirmala College For Women, Coimbatore
		27/11/2019	Dr. Ms. S. Beula Princy	Recent Trends in Techniques in Web Applications development	Department of Computer Science, Computer Applications and Information Technology.
		28-11-2019 to 29-11-2019	Dr. Ms. S. Beula Princy	Web Application Development and Deployment using Spring Framework	Department of Computer Science, Computer Applications and Information Technology.

		Date	Name	Title	Organizer
		30.10.2019	Mrs. S. Kulandai Teresa	Innovative Teaching Strategies	Curriculum Development Cell, Nirmala College For Women, Coimbatore
		27/11/2019	Mrs. S. Kulandai Teresa	Recent Trends in Techniques in Web Applications development	Department of Computer Science, Computer Applications and Information Technology.
		28-11-2019 to 29-11-2019	Mrs. S. Kulandai Teresa	Web Application Development and Deployment using Spring Framework	Department of Computer Science, Computer Applications and Information Technology.
		30.10.2019	Mrs. M. JudithAcquline	Innovative Teaching Strategies	Curriculum Development Cell, Nirmala College For Women, Coimbatore
		27/11/2019	Mrs. M. JudithAcquline	Recent Trends in Techniques in Web Applications development	Department of Computer Science, Computer Applications and Information Technology.
		28-11-2019 to 29-11-2019	Mrs. M. JudithAcquline	Web Application Development and Deployment using Spring Framework	Department of Computer Science, Computer Applications and Information Technology.
		30.10.2019	Ms. Muthumalathi	Innovative Teaching Strategies	Curriculum Development Cell, Nirmala College For Women, Coimbatore
		27/11/2019	Ms. Muthumalathi	Recent Trends in Techniques in Web Applications development	Department of Computer Science, Computer Applications and Information Technology.

		28-11-2019 to 29-11-2019	Ms. Muthumalathi	Web Application Development and Deployment using Spring Framework	Department of Computer Science, Computer Applications and Information Technology.
Information Technology	2017-18	31/8/2017	Mrs.R.Jenitha Mary	IBM Solutions Technical Conference-2017	IBM India Private Limited
		24.02.2018	All the Staff members	Internet of Things	Ms. N. Vijaya Technical Trainer, Beyond Zero Pvt. Ltd, Coimbatore.
	2018-2019	29.09.2018	Ms.A.Jansi Rani	Biological Data Mining And Analytics	PSGR Krishnammal College for Women, Coimbatore
		27.11.2018	Ms.A.Mary Theresa	Google Doc's, KAHOOT Apps, and Online Book publishing	Department of Mathematics, Nirmala College for Women Coimbatore
		19.01.2019	Ms. A. Jansi Rani	Tuning Academic Research for Potential funding opportunities	Department of Chemistry, Nirmala College for Women Coimbatore
		21.02.2019	Mrs. Jenitha Mary	Latex	Department of Computer Science, Information Technology & Computer Applications
		05.03.2019	Ms. A. Jansi Rani	Data Analytics	Department of Computer Science, Information Technology & Computer Applications
	2019-20	30.10.2019	Jansi Rani A	Innovative Teaching Strategies	Curriculum Development Cell Nirmala College for Women, Coimbatore.

		30.10.2019	Jenitha Mary R	Innovative Teaching Strategies	Curriculum Development Cell Nirmala College for Women, Coimbatore
		30.10.2019	Sindhya K	Innovative Teaching Strategies	Curriculum Development Cell Nirmala College for Women, Coimbatore
		30.10.2019	Mercy Praba C	Innovative Teaching Strategies	Curriculum Development Cell Nirmala College for Women, Coimbatore
		27.11.2019	Jenitha Mary R	Recent Trends and Techniques in Web Applications Development	Department Of Computer Science, Computer Applications and Information Technology
		27.11.2019	Aneesh Roopa .A	Recent Trends and Techniques in Web Applications Development	Department Of Computer Science, Computer Applications and Information Technology
		28.11.2019 & 29.11.2019	Jenitha Mary R	Web Application Development and Deployment using Spring Framework	Department Of Computer Science, Computer Applications and Information Technology
		28.11.2019 & 29.11.2019	Aneesh Roopa .A	Web Application Development and Deployment using Spring Framework	Department Of Computer Science, Computer Applications and Information Technology
Geography	2014-15	27.01.2015 to 31.01.2015	A.Franchina Mary	Short term Course on Disaster Management	UGC HRDC, Bharathiar University
	2018-19	17.5.2018 to 13.6.2018	Jyothirmayi.P	119 Orientation Programme	UGC HRDC, Bharathiar University
		17.5.2018 to 13.6.2018	Sreelakshmy M	119 Orientation Programme	UGC HRDC, Bharathiar University

	2019-20	27.5.2019-31.5.2020	Sreelakshmy M	Hands on training Programme on Remote Sensing, GIS & Resource Mapping	KSCSTE_ Kerala Forest Research Institute, Thrissur, Kerala
		16.9.2019 to 28.9.2019	Sreelakshmy M	Refresher course in Geography	Jawaharlal Nehru University, New Delhi.
		4.12.2019-10.12.2019	Sreelakshmy M	Workshop on E-content, MOOCS and Open Educational Resources.	UGC HRDC, Bharathiar University
		2.12.2019-14.12.2019	Dr.Jyothirmayi .P	Refresher course in Geography	UGCHRDC, RDV, Jabalpur, Madhyapradesh
		17.02.2020 to 08.03.2020	Helan Jenifer S	Winter Training	NRDMS-DST 21 Days winter School on Geospatial Technologies

9.10. Exhibitions, Seminars and Training courses organized

Department	Year	Date	Title	Resource Person	Beneficiaries
Mathematics	2014-15	06.01.2015	Seminar on 1.Range Symmetric Matrices in indefinite inner product space 2.Near Rings 3.Modeling Global Climate Change	1. Dr.Meenakshi, Emeritus Professor, Annamalai University. 2. Dr.P.Nandha kumar, Assistant Professor, Perunthalaivar Kamaraj college, Karaikal. 3. Dr.N.Devaraju, Project Scientist, Divecha Institute of Technology, IISC, Bengaluru.	150
	2015-2016	14.09.2015	Seminar on Statistics and its Careers	Dr. G. Uma, Assistant Professor in Statistics, PSG College of Arts and Science, Coimbatore.	

		15.12.2016 , 16.12.2016	International Conference on Mathematics and Computer Science (ICMCS-2016)	1.Prof.Dr.E.Balaguruswamy, Chairman, EBG Foundation and former Vice-Chancellor of Anna University, Chennai. 2. Dr.Changhyuck Oh, Professor, Department of Statistics, Yeungnam University, Korea. 3. Dr.Gang Liu, Professor in Mathematics and Computational Science, Hengyang Normal University, China. 4. Prof.Dr.Pankaj Srivastava, Professor of Mathematics, Motilal Nehru National Institute of Technology, Allahabad. 5. Dr.S.Ponnusamy, Head and Associate Professor, Indian Statistical Institute, Chennai.	350
	2016-2017	07.01.2017	Real Analysis	Mr.Suresh Kumar, Chikkanna Government Arts College, Tiruppur-641 602	60
	2017-2018	10.10.2017	Fundamentals on Complex Analysis	1.Dr.S.Sivasubramanian, Associate Professor, Department of Mathematics, Anna University, Tindivanam 2.Mr.J.Ruban Dhilipan, Assistant Professor, Arul Ananthar College, Madurai.	

		31.01.2018	Lunar Eclipse	Mr.Kuppuswamy, Retd.Observer, Vainu Bappu Observatory, Kavalur, Vellore.	500
		10.02.2018	Symposium on Algebra	Mr.R.Gnana Prakasam, Lecturer, Govt Polytechnic College, Andipatti.	67
		31.01.2018	Lunar Eclipse	Mr.Kuppuswamy, Retd.Observer, Vainu Bappu Observatory, Kavalur, Vellore.	500
		10.02.2018	Symposium on Algebra	Mr.R.Gnana Prakasam, Lecturer, Govt Polytechnic College, Andipatti.	67
		21.02.2018	Celestial Bodies and installed Celecstron Telescope	Dr.Sakthivel, Professor of Physics, Adithya Institute of Technology, Coimbatore.	150
	2018-2019	21.02.2018	Celestial Bodies and installed Celecstron Telescope	Dr.Sakthivel, Professor of Physics, Adithya Institute of Technology, Coimbatore.	150
		04.02.2019	Workshop on Python	Ms. Nita Bhupathrai, Udaan Technologies, Coimbatore	44(II B.Sc. Mathematics)
		02.03.2019	Lecture workshop on Complex Analysis	Dr.Gnanaprakasam, Assistant Professor of Mathematics, Government Polytechnic College, Madurai	50(III B.Sc. Mathematics)
	2019-2020	05.12.2019	National-Seminar - A New Cognitive Approach to Real	1) Dr. Sunil Jacob John , Associate Professor of Mathematics , NIT Calicut , Kerala. 2) Dr.R.Murugasen, Professor of Mathematics, REVA University, Bangalore.	280

			Life Problems Via Mathematics	3) Dr.Antony Eldred, Assistant Professor of Mathematics, St. Joseph's College, Trichy.	
		20.12.2019	Workshop – Advanced Excel	Mrs.Jansi Rani, Assistant Professor and Head, Department of Information Technology, Nirmala College for Women, Coimbatore.	44
		07.01.2020	Workshop – Effective Power Point Presentation	Mrs. E. Sylvia, Assistant Professor and Head , Department of Computer Applications, Nirmala College for Women, Coimbatore.	44
		13.01.2020	Workshop on Latex	Dr.S.Suganya, Assistant Professor of Statistics, PSG College of Arts and Science, Coimbatore.	30
Computer Science, Computer Application, Information Technology	2014-15	16.09.2014	Workshop Multimedia-Tool	1.Mr.Thyagarajan, Head Operation, Image Creative Education, Coimbatore. 2. Mr.Vignesh, Development Officer. Image Creative Education, Coimbatore.	160
		11.12.2014	Workshop Macromedia Flash	1.Mr.Thyagarajan, Head Operation, Image Creative Education, Coimbatore. 2. Mr.Vignesh, Development Officer. Image Creative Education, Coimbatore.	159
		19.01.2015 & 20.01.2015	Workshop PHP Using Dreamweaver	1.Mr.Eshwaran, Technical Head, Poras Technologies, Coimbatore.	146

		30.01.2015 & 31.01.2015	Workshop Networking using CISCO Packet Tracer	1. Mr.Ashlie Jebasingh, Business Executive, Live wire , Coimbatore. 2. Mr.Sree Vignesh, Senior Faculty,Live Wire. Coimbatore.	140
	2015-16	08.09.2015	Workshop Creating mobile application	1.Mr.B.Ramanamoorthy, mobile application development trainer,YRSK Technologies, Coimbatore. 2. Mr.M.Karthikeyan, Technical Director YRSK Technologies, Coimbatore	140
		23.09.2015	Conscientia 2K15	1.Mrs. Sugapriya, IT Co-ordintor,Be-positive Institute for Skilling	120
		01.12.2015	Seminar Shaping your destiny	1. Mr.Indira Mohan Senior Trainer 2D/3D Animation, Apex Animation Institution, Coimbatore. 2. Ms. Sapna Agarwal, Technical Head, Apex Animation Institution, Coimbatore.	150
	2016-17	29.08.2016 & 30.08.2016	Workshop "ANDROID MOBILE APP DEVELOPMENT"	Ramkumar Arumgam - Android Developer & Trainer, Model Exam E-Learning Solutions, Madurai	40

At the top of the page (continuation of previous row):

2. Mr.Nowshath, Business-D-Executive, Poras Technologies, Coimbatore.

		24.11.2016 - 30.11.2016	Workshop ISTQB Certification training and workshop with international internship	Mr. S. Vibin Chandar, Campus head, Blue Crest University, Ghana, West Africa	60
		15.12.2016 & 16.12.2016	An international conference on Mathematics and computer Science	1.Prof.Dr.E.Balaguruswamy, Chairman, EBG Foundation and former Vice-Chancellor of Anna University, Chennai. 2. Dr.Changhyuck Oh, Professor, Department of Statistics, Yeungnam University, Korea. 3. Dr.Gang Liu, Professor in Mathematics and Computational Science, Hengyang Normal University, China. 4. Prof.Dr.Pankaj Srivastava, Professor of Mathematics, Motilal Nehru National Institute of Technology, Allahabad. 5. Dr.S.Ponnusamy, Head and Associate Professor, Indian Statistical Institute, Chennai.	145
	2017-18	20.07.2017 & 21.07.2017	Two Day Hands on Training Python Programming	1. Mr. Lakshmana Kumar Ramaswamy, Technical Trainer, Hindusthan Engineering & Technology, Coimbatore.	30
		24.07.2017	One day Workshop BioPython Programming	Dr.S. Sivashankari Asst. Prof of Bioinformatics, Nirmala College for Women, Coimbatore.	150

		17.08.2017 & 18.08.2017	Two day Hands on Training BioPerl Programming	1. Mr. Naveen Kumar Web Developer, Accent Techno Soft, Coimbatore & 2. Mr. S.M Nathan Web Developer, Accent Techno Soft, Coimbatore.	148
		06.10.2017	One Day Hands on Training R Programming And Analytics (Interdisciplinary	Mr. D. Sai Natarajan, Software Trainer Gateway Software Solutions Coimbatore.	60
		19.12.2017	One day workshop Project Development Using BioPerl	Dr. D. Victor Arokia Doss Associate Professor, Department of Biochemistry, PSG College of Arts & Science, Coimbatore.	120
		17.01.2018 & 18.01.2018	Two day Workshop Linux (Interdisciplinary	Dr. V. VijayaKumar, Controller of Examinations & Professor , Department of Computer Science, Sri Ramakrishna College of Arts & Science, Coimbatore.	30
		12.02.2018 & 13.02.2018	Two day Workshop Advanced Python	Mr. Ranjith Kumar Senior Trainer, Be Positive Coimbatore.	160
	2018-19	05.12.2018 - 06.12.2018	Two day Workshop Digital Marketing	Mr.Santhosh Kumar Digital Marketing Analyst Nettel Solutions, Coimbatore	158
		07.12.2018	1 day workshop Web Developing	Ms.E.Karthiga Web Developer, Accent Techno Soft, Coimbatore	20

		07.12.2018, 10.12.2018 & 11.12.2018	Three Day Hands on Training Python Programming	Mr.R.Vijaya Kumar Technical Consultant Refinement Software solutions Coimbatore.	169
		05.02.2019	Technical Meet and Inter School Exhibition Artificial Intelligence, Robotics and Internet Of Things	1. **Dr.SARAVANA MOORTHY** Vice Principal Sri Ragavendra Vidyalaya Matriculation Hr.Sec.School 2. **Dr.S.VIJAYARANI** Assistant Proessor Department Of Computer Science Bharathiyar University. Coimbatore. 3. **Ms.M.KAYALVIZHI** M.Phil Assistant professor Department Of Computer Science VLB Janakiammal College of Arts And Science Coimbatore.	140
		19.02.2019	One Day National Seminar Recent Trends in Innovative Technologies	1. **Dr.MANJUNATH ARADHYA** Associate Professor Department Of Computer Science Sree Jayachamundra College Of Engineering And Technology Mysore,Karnataka 2. **Dr.CHENNAMMA** Assistant Professor Department Of Mca	400

				University Of Mysore Karnataka	
				3. Dr.MANOHAR NAIK.S Associate Professor Department Of Computer Science Central University Of Kerala,Kasargot **4. Dr.JAYASUDHA SUBBURAJ** Placement Officer, Sri Krishna College Of Engineering & Technology Coimbatore	
	2019-20	11/12/2019 and 12/12/2019	Two Day Hands on Training Designer Tools	Ms.Rachel.S, Technical-Development and Mr.Jeevanraj.R from Aakkam industrial Training and Research Institute.	168
		10/01/2020 and 11/01/2020	Two Day Hands on Training Selenium Tool	Mr.Nagendhran Mani, Senior Test Engineer, Accent Technosoft, Coimbatore.	150
		14/01/2020 to 19/01/2020	Six day Winter Training Programme Android App Development	Android App Development, Techi 4s Training Solutions, Coimbatore.	30
		17/02/2020	One Day Technical Seminar Emerging Technologies in Bio-Informatics	1.Dr.P.Lalitha,Professor, Department of Computer Applications, Hindusthan College of Arts & Science,Coimbatore. 2.Dr.V.Kumutha,	168

				Department of Computer Science, Avinashilingam Institute for Home Science and Higher Education for Women. 3.Mr.C.Stanly Felix,Assistant Professor, Department of Computing, Coimbatore Institute of Technology,Coimbatore.	
		18/02/2020 and 19/02/2020	Two Day Hands on Training Workshop On Application Development	Mr. A. Ram Kumar, co founder of Model Exam, Madurai.	30
		20/02/2020	One Day Technical Seminar Computing in BioInformatics	1.Dr.S.Sivashankari, Assistant Professor, Department of Bioinformatics, Nirmala College for Women, Coimbatore. 2.Mr.Vibinchandar.S, Head-Training, Azurelt Solutions, Tamale, Ghana, West Africa. 3.Dr.Antony Arul Raj. D, Associate Professor, Department of Software Systems PSG College of Arts & Science, Coimbatore.	140
		05/03/2020	One Day Hands on Training Tech Reality	Mr. Aravind Rajendran, Director, Woow Reality	50
Geography	2014-15	09.07.14	Workshop on GPS	Mr. Badrinath, AIMIL, Chennai.	126 students
		27.09.14 To 30.09.14	4 day study tour to Mangalore & Coorg.	Final yr B. Sc Students & P.G. students	32 students

		19.12.14	Field Trip to Siruvani Water Treatment plant, Coonoor tea factory & Kodanad	P.G. and III B.Sc Students II B.Sc and I B.Sc Students	67 students
	2015-16	30.07.2015	II, III UG students and PG students taken to GASS Forest Museum		74 students
		13.08.2015	Workshop on the topic Personality development- "Who am I?"	Ms.Maheshwari, CRIF, Madurai	116 students
		22.09.2015	I UG students taken in to GASS forest Museum		45 students
		06.10.2015 to 10.10.2015	III UG and PG students taken for study tour to Bengaluru, Belur, Halebidu,Mysuru		32 students
		08.01.2016	Field trip to Aliyar dam and Contour Canal	-	112 students
	2016-17	16.07.2016	Workshop for staff members	Ms. Niveditha, Counsellor, SNEHA, Chennai	11 students
		05.08.2016	Geography Exhibition		250 students from 7 schools
		20.09.2016	Local field trip	II, III B.Sc and all the M.Sc students were taken to Kasthuri Sreenivasan Art gallery and Textile Museum	67 students
		22.09.2016	Local field trip	I. B. Sc students were taken to Gass Forest Museum	42 students
		22.09.2016 to 25.09.2016	Study tour	III. B. Sc students were taken to a study tour to Calicut and Wayanad	32 students

		05.10.2016	Personality development workshop for I.B.Sc Students	Ms. Maheshwari, CRIF, Madurai	41 students
		06.10.2016	Personality development workshop for II & III.B.Sc and all M.Sc Students	Ms. Maheshwari, CRIF, Madurai	69 students
	2017-18	10.07.2017	Local Field Trip (under DBT scheme) I B.Sc students visited the Gass Forest Museum		42 students
		11.07.2017	Local Field Trip (under DBT scheme) II & III B.Sc. and II M.Sc. students visited the Regional Science Centre, Coimbatore.		68 students
		03.08.2017	Workshop on "Survey of India toposheets and its numbering" (under DBT scheme)	Dr. Maria Anita Anandhi Retd. Prof of Geography, Nirmala College for women	62 students
		20.09.2017	Field trip to Siruvani water treatment plant I & II B.Sc. students visited the Siruvani water treatment plant. (under DBT scheme)		66 students

		25.09.2017	Field trip to Nelliampathy and Malampuzha in Palakkad II & III B.Sc. and II M.Sc. students visited Nalliaympathy to view the Palakkad Gap and Malampuzha.		69 students
		04.12.2017	Personality development workshop for II & III.B.Sc and M.Sc Students	Ms.Maheshwari, CRIF, Madurai	67 students
		05.12.2017	Personality development workshop for I.B.Sc Students	Ms.Maheshwari, CRIF, Madurai	42 students
		07.12.2017	Symposium on "The Garbage Menace-Solutions" 'The Challenges of Managing Garbage' 'Garbage – its impact on nature' **'**Reducing the burden - Zero waste'	Dr. Joshy V. Cherian Managing Director, Omega Ecotech Products India Ltd., Coimbatore Mr. Sanjay Prasad G Chief Coordinator, Environmentalist Foundation of India Coimbatore Mr. Shibu Nair Director, THANAL, Trivandrum	117 students
		12.12.2017	One day Workshop on "Disaster Awareness"	Disaster Management Team from Sri Sathya Sai Organisation, Coimbatore	122 students

			(under DBT scheme)		
		15.12.17	Field trip (under DBT scheme) A group consisting of 23 students from III.B.Sc and PG were taken to a field trip to Topslip, Aanamalai Tiger Reserve Forest A group of 47 I.B.Sc. Geography students were taken for a field trip to Nilgiri Biosphere National Park, Thoovaipathi.		23 students 47 students
		20.12.2017	Workshop on GPS (under DBT scheme)	Mr. Karthikeyan C Cad Systems Mettupalayam Coimbatore.	116 students
		14.02.2018	Workshop on "Aerial Remote Sensing & Photogrammetry" (under DBT scheme)	R. Jegan Kumar Assistant Professor Department of Geography School of Geo sciences Bharathidasan University, Trichirapally	67 students
	2018-19	24.07.2018	Local Field Trip to Gass Forest Museum (I B.Sc. students) (under DBT scheme)		41 students
		25.07.2018	Local Field Trip to Regional Science Centre		26 students

		04.09.2018	Felicitation for making 1 lakh Newspaper bags	Dr. Sr, Ruby Alangara Mary
				    Secretary
				Dr. Sr. Arulseeli
				    Vice Principal
				Nirmala College for Women (Auto.) Coimbatore -18
					123 students

			(under DBT scheme) (II B.Sc. students)		
		04.09.2018	Village Adoption Programme in Kangeyampalayam village(III B.Sc students)		36 students
		08.09.2018	Local Field Trip (under DBT scheme) To Tamil Nadu Agricultural University and Insect Museum(III B.Sc students)		36 students
		12.09.2018 to 14.09.2018	Study tour to Kannyakumari and Trivandrum (III and II B.Sc Students) (Under DBT Scheme)		34 students
		05.10.2018	Symposium & Exhibition on Day Zero and Traditional Water Wisdom Geo Quiz For school students (class 6-10) (Under DBT Scheme)	Mr. Rajesh Govindarajulu Member of INTACH Mr. N. Venkatesan Programme Leader DHAN Foundation Madurai Mr. Sanjay Prasad J. Chief Coordinator Environmentalists	126 students

				Foundation of India Coimbatore	
		29.11.2018	Workshop on Menstrual Hygiene & Environment (Under DBT Scheme)	Ms.Harshini Mukunthan Menstrual Health Educator Ecofemme, Auroville Pondicherry	114 students
		07.12.2018	Workshop on Bio Enzymes for Healthy Environment (Under DBT Scheme)	Ms.Chitra Raveendran Pranapurna Collective	117 students
		14.12.2018	Local Field Trip (under DBT scheme) Siruvani Water Treatment Plant (I B.Sc. Students)(Under DBT Scheme)		41 students
		05.01.2018	Local Field Trip (under DBT scheme) Kundah -4 Penstock, Athikadavu and Bhavani River (II &III B.Sc. Students) (Under DBT Scheme)		67 students
		15.02.2019	Workshop on GPS (Under DBT Scheme)	Dr. Jegankumar R. Assistant Prof & Head Department of Geography Bharathidasan University Trichy -24	67 students
	2019-20	9.7.2019	Local field trip to Regional Science Centre- II B.Sc. Geography		34 students
		9.7.2019	Local field trip to		39 students

			TNAU and Insect Museum-III B.Sc. Geography		
		11.7.2019	Inter departmental Quiz competition	World Population Day - 2019 Inter departmental competitions. Judge panel Dr. Mercy Anandaraj , Dean of Student Affairs & Associate professor in History, Nirmala College for Women, Coimbatore – 18	48 Students from different departments
			Inter departmental Poster Design competition	Dr. Mary Josephine, Dean of Academics & Associate professor in Botany, Nirmala College for Women, Coimbatore – 18 Dr. Sudha Sharma, Assistant professor in Hindi, Nirmala College for Women, Coimbatore – 18	36 students from different departments
Geography		15.07.2019	Local field trip to Gass Forest Museum- I B.Sc. Geography		46 students
		22.08.2019 to 25.08.2019	Educational Tour to Goa - III B.Sc. Geography		28Students
		07.09.2019	National Symposium on "Applications of GIS and Remote Sensing in Geographical Studies and Research".	B.Sukumar, Scientist F(Retired), National Centre for Earth Science Studies, Akkulam, Thiruvananthapuram, Kerala. Dr. Hari Krishnan, Asst.	109 Students from Nirmala college 25 Other college Students

| | | | | Field Officer, Soil & Land Use survey of India, Bangalore, Karnataka.

Dr. A. Rajasekaran, Scientist - D, Institute of Forest Genetics and Tree Breeding (IFGTB,Coimbatore),Ministry of Environment Forest & Climate Change, Govt.of India. | |
|---|---|---|---|---|---|
| | | 14.10.2019 | Video conference Lecture in connection with World Disaster Risk Reduction Day on 13th of October on the topic "Disaster Management for Beginners" | Dr.Dipanker Chyau Patnaik Team Leader Community Mobilization and Environmental Improvements(CMEI) Integrated Urban Environmental Management In the Tonle Sap Basin. Project by ADB and Ministry of Public works & transport-Royal Government of Cambodia | 122 students |
| | | 11.12.2019 | Local Field Trip (Under DBT) to Siruvani Water Treatment Plant and Kovai Kutralam | | 35 students |
| | | 18.12.2019 | Local Field Trip (Under DBT) to Palakkad Gap & Malampuzha Dam | | 33 students |
| | | 06.01.2020 | Workshop on Total Station Survey (Under DBT) | Mr.Selva Raj, Athira Geo Spatial Service Pvt.Ltd. No:1,Manimegalai | 36 Students |

		07.01.2020	Workshop on Differential Global Positioning System (DGPS) Survey (Under DBT)	Dr.Arun Athira Geo Spatial Service Pvt.Ltd. No:1,Manimegalai Street, Pollikkaalamai,Chennai	36 Students
				Street, Pollikkaalamai,Chennai	
		08.01.2020	Workshop on Drone survey (Under DBT)	Mr.Praveen, Athira Geo Spatial Service Pvt.Ltd. No:1,Manimegalai Street, Pollikkaalamai,Chennai	37 Students
		03.02.2020	Workshop on Bioenzymes: natural cleaners for a safe living place	Mrs.Chitra Raveendran & Ms.Akhila Volunteers Pranapoorna Collective ,Coimbatore	169 faculty members
		14.03.2020	Field Trip to Kallar & Government horticulture farm		35 Students

9.11. Books and journals subscribed

Department	Period	Year	No of Books purchased	Amount in Rs/-	Grant	Journals subscribed
Mathematics	Pre support period	2014-15	10	6199/-	UGC	1
		2015-16	25	18016/-	Autonomous fund	1
		2016-17	12	7072/-	Autonomous fund	-
	Post Support period	2017-18	36	16727/-	Autonomous fund	1
			16	9964/-	DBT	
		2018-19	14	5124/-	Autonomous fund	1
		2019-20	51	15353/-	Aided fund	3
			23	7772/-	Autonomous fund	1
			10	20656/-	DBT	

Department		Year				
Computer science , Computer Applications & Information Technology	Pre support period	2014-15	147			-
		2015-16	66	33910/-	Autonomous grant	09
		2016-17	-	-	-	09
	Post Support period	2017-18	1+23		Autonomous grant, DBT	11
		2018-19	33		Autonomous grant	11
		2019-20	33+5		Autonomous grant, DBT	11
Geography	Pre support period	2014-15	5	2000/-	College fund	
		2015-16	12 +24+88	18,000/-	College fund, Autonomous fund, PG fund	1
		2016-17	42+26+7	16,000/-	College fund, Autonomous fund, PG fund	1
	Post Support period	2017-18	56	16,293/-	DBT	-
		2018-19	56	18647/-	DBT	-
		2019-20	51	25,050	DBT	-

9.12. Outreach activities and Popular lectures organized

Department	Date	Activities	Place	Beneficiaries
Mathematics	05.12.2017	Ramanujan's Day - Inter School Competitions	Nirmala College for Women	76
	20.12.2018	Ramanujan's Day - Inter Collegiate Competitions	Nirmala College for Women	93
	20.12.2019	Ramanujan's Day - Inter collegiate Competitions	Nirmala College for Women	105
	18.02.2020 to 16.03.2020	Basic Mathematics one – to- one coaching was given to the students of 6th, 7th, 8th and 9th standard.	Dr.Ambedkar Girls Hostel, Coimbatore	10
		Basic Mathematics was taught to the students of 6th, 7th, 8th and	Kangayampalayam Government Higher	60

	17.08.19	9th standards. Mathematics Quiz was conducted and educated the students on solving of puzzles using short cut methods.	Secondary School, Sulur, Coimbatore	
	04.02.19	Nearly 30 VI Std students were divided into small groups and the following topics were taught:- fractions and its types, integers, decimal representation, Problem solving and calculation . 35 VII and VIII class students were taught the following topics: Algebra, Square Roots. Importance was given to the application of Mathematical Operators.	Kangayampalayam Government Higher Secondary School, Sulur, Coimbatore	65
	28.07.18	Basics of mathematics such as integer addition, subtraction, multiplication and division were taught and a test was conducted to evaluate their understanding. Mathematical quiz was conducted.	Kangayampalayam Government Higher Secondary School, Sulur, Coimbatore	89
Computer Science, Computer Application, Information Technology	12.07.2014	Computer awareness programme	Ambedkar hostel, coimbatore	38
	02.07.2015 – 08.07.2015	Basics in computer	Nirmala college for women, coimbatore	45
	17.09.2016	Computer awareness programme	Ambedkar hostel, coimbatore	40
	23.09.2017	Microsoft word , excel , internet basic	Govt high school , kangeyampalayam	40
	15.09.2018	Power point	Govt high school , kangeyampalayam	40
	31.08.2019	C++ programming	Govt high school , kangeyampalayam	40

	Date	Event	Speaker(s)	Participants
Geography	04.12.14	Workshop For school students, School teachers and college students & Launch of Geovidyaa Coimbatore Centre Latitudes & Longitudes	Chandrasekar Balachandran Director TIIGS	254students from various schools and colleges.
	26.08.2015	Geo-Vidya Workshop on "Maps & Atlases- How to read them" and "Geography of Ebola" For School students, School teachers & College students	Dr. Chandrashekar Balachandran, Director, TIGS, Bangalore	273 students from various schools and colleges
	26.08.2015	Geography Quiz for School Students		74 students from various schools and colleges
	04.08.2016	Symposium for school students, school teachers and college students	1. **Dr. V.Nagarathinam**, Retd Scientist, Institute of Remote sensing, Anna University Chennai. 2. **Prof. V.Subbarayalu**, Head, Dept of Indology, French Institute, Pondicherry 3. **Dr. Chandrasekar Balachandran**, founder- Director, The Institute of Geographical studies, Bengaluru 4.**Ms. Sreedevi Lakshmikutty** Co founder- Biobasics, sustainable farming and food activist. Coimbatore	269 students from various schools and colleges
	4.08.2016	Annual Geo Quiz organized by the Department for school students		30 teams of school students of Std VIII and IX
	02.08.2017	Symposium & workshop on "Survey of India and its topographical maps" (under DBT scheme)	1. Dr. Maria Anita Anandhi Retd. Prof of Geography,	249 students from various

			Nirmala College for women 2. Mr.Subramaniam Surveyor, Survey of India	schools and colleges
	29.08.2017	Geo Quiz for school students & Exhibition on "Cartography"		38 students from various schools
	05.10.2018	School Extension program – One day Symposium Day Zero and Traditional Water Wisdom	Rajesh Govindrajalu Mr.Venkatesan Mr.Sanjay Prasad G. Member of Sirutuli Chief Executive officer Coordinator of EFI. Sirutuli (NGO) , Coimbatore Dhan foundation, Madurai Environmentalist Foundation of India, Coimbatore city	126 students
	5.10.2018	GeoQuiz	School students	38school students
	5.10.2018	Exhibition on "Zero day &traditional water wisdom"	School and college students	235
	13.01.2020	Extension / Village Visit to Palamazha (Under DBT)		38 Students

9.14. Invited lectures

Department	Year	Date	Topic	Resource Persons
Mathematics	2014-2015	06.08.2014	Joy of learning Mathematics	Dr. R.Natarajan, Head of the Department of Mathematics, PSG College of Technology, Coimbatore.
		10.01.2015	Fun & Beauty of Mathematics and Suggestions for good living and learning	Professor J. Prakash, Department of Mathematics, University of Botswana.

		21.01.2015	Midst in Mathematics	Dr.K.Thilagavathy, Associate Professor in Mathemaics, KonguNadu Arts and Science College, Coimbatore
	2015-2016	26.08.2015	How to earn more money using Mathematics	Mr.C.Bazil Wilfred, Assistant Professor in Mathematics, Karunya University, Coimbatore
		14.09.2015	Statistics and its Careers	Dr.G.Uma, Assistant Professor in Statistics, PSG College of Arts and Science, Coimbatore
		03.09.2015	Numerical Integration	Mr.Mohan Kumar, Head RTAS, Indira Gandhi Centre For Atomic Research, Kalpakkam.
		11.01.2016	Computational Fluid Dynamics	Mr.Sam Jesu Rajendran, R.W.T.H, Germany
	2016-2017	08.08.2016	Lateral Thinking	Prof. K. Smiles Mascarenhas, Dean, Academic affairs, Coimbatore Institute of Engineering,and Technology, Coimbatore.
		29.08.2016	Regression-A possibility beyond inconsistency	Dr.T.Palanisamy, Associate Professor in Mathematics, Amrita Vishwa VidyaPeetham, Coimbatore.
		28.01.2017	Partial Differential Equations	Dr.M.Suvinthra, Assistant Professor, Department of Mathematics, Bharathiar University, Coimbatore.
				Ms.R. Mabel Lizzy, Ph.D Scholar, Department of Mathematics, Bharathiar University, Coimbatore.
		18.02.2017	Applications of Mathematics	Dr.P.T.Hema Malini, Professor & H.O.D, Department of Science and Humanities, Faculty of Engineering, Karpagam University, Coimbatore.
	2017-2018	19.07.2017	Mathematical Biology	Prof.Udayakumar, Head &Associate Professor, Gandhigram Rural University, Gandhigram.
		21.07.2017	Continuous functions & Metric Spaces	Dr.M.Mutharasu, Assistant Professor, Department of Mathematics, C.B.M College, Coimbatore.
		02.08.2017	Big Data	Mr.S.Krishna, Founder &Director, SKATE Inspired Learning(P)Ltd, Coimbatore.

	2017-2018	22.08.2017	FOSS for Mathematics	Dr.R.Parvathi, Associate and HOD of Mathematics, Vellalar College for Women, Erode.
		30.08.2017	I,Me,Myself	Mr.Madhan Mohan, Chief Financial Officer, JS Auto Cost Foundary, India Private limited, Coimbatore.
		13.09.2017	Motivation to do research in Mathematics	Mabel Lizzy.A, Ph.D Scholar, Department of Mathematics, Bharathiar University, Coimbatore.
		20.01.2018	Partial Differential Equations	Dr.M.Suvinthra, Assistant Professor, Department of Mathematics, Bharathiar University, Coimbatore.
				Ms.R. Mabel Lizzy, Ph.D Scholar, Department of Mathematics, Bharathiar University, Coimbatore.
		01.02.2018	Document Preparation	Mrs.Ann Usha Mangalam, HOD of Computer Science, Nirmala College for Women, Coimbatore
		05.02.2018	R Programme	Dr.V.Vijaya Kumar, COE, Sri Ramakrishna College of Arts and Science, Coimbatore
		06.02.2018	Animation using power point	Ms.Jansi rani, HOD of Information Technology, Nirmala College for Women, Coimbatore.
		13.02.2018	Signals and Image Processing using MATLAB	Mr.Kannan, Sr.Technical Engineer, Enthu Technology Solutions, Coimbatore.
		14.02.2018	Introduction to Graph theory	Dr.S.Sivasankar, Assistant Professor, Department of Mathematics, NGM College, Pollachi.
		15.02.2018	Statistics for Marketing and Consumer Research using SPSS package	Dr.S.Lara Priyadharshini, Associate Professor, KV Institute of Management and Information Studies, Coimbatore.
		22.02.2018	Women Empowerment	Mrs.Arockia Roseline, Rythmm Social Service Center, Coimbatore.
		24.02.2018	Applications of Differential Equations	Dr.C.Veeramani, Assistant Professor, Department of Applied Mathematics, PSG College of Technology, Coimbatore.

		08.03.2018	Women Empowerment programme	Rev.Dr.Sr.Arulseeli, HOD & Department of Tamil, Nirmala College for Women, Coimbatore.
		12.03.2018	Applications of Mathematics in Botany	Dr.Mary Josephine, Head & Department of Botany, Nirmala College, Coimbatore.
	2018-2019	14.06.2018	Various topics of Research	Prof.Udayakumar, Head &Associate Professor, Gandhigram Rural University, Gandhigram.
		03.08.2018	Applications of Mathematics	Dr.Thilagavathy, (Rtd) Professor, Kongunadu College of Arts and Science, Coimbatore.
		05.07.2018	The Application of Mathematics	Ms.Nita Boopathy & Mr.Radhakrishnan Udaan Technologies, Coimbatore.
		10.10.2018	Prelude to Linear Algebra	Prof.Palanisamy, Amrita University, Coimbatore.
		11.10.2018	Applications of Mathematics	Dr.P.Raja Rajeshwari, Chikkana College, Tiruppur.
		12.10.2018	Advanced Excel	Ms. Nita Bhupathrai, Udaan Technologies, Coimbatore.
		13.10.2018	Advanced Excel	Ms. Nita Bhupathrai, Udaan Technologies, Coimbatore.
		05.10.2018	Career Orientation	Ms.Nita Boopathy & Mr.Radhakrishnan, Udaan Technologies, Coimbatore.
		11.10.2018	Applications of Mathematics	Dr.P.Raja Rajeshwari, Assistant Professor, Department of Mathematics, Chikkana College, Tiruppur.
		16.10.2018	Soft skills for Success	Mr.R.Saravana Kumar, Ex-Director, Cognizant Technology Solutions.
		04.03.2019	Applications of Mathematics in Biology	Dr.R.Mary Josephine, Academic Dean & Associate Professor of Botany, Nirmala College for Women, Coimbatore.
		08.01.2019	Mathematical Modelling	Dr.Jeyakumar, Assistant Professor, Government Arts College, Coimbatore.
		13.02.2019	Fuzzy Topology(DBT)	Dr.G.Thangaraj, Professor and Head of Mathematics, Thiruvalluvar University, Vellore.

		13.02.2019	Fundamental matrices and its applications in Control Theory(DBT)	Dr.M.Suvinthra, Assistant Professor, Bharathiar University, Coimbatore.
		13.02.2019	Time Management(DBT)	Mrs.R.K.Gayathri Devi, Assistant Professor, Bishop Ambrose College, Coimbatore.
		14.02.2019	Self Confidence(DBT)	Dr.P.Senthil Rajkumar, Secretary, Dr.P.G.V.Matriculation Higher Secondary School, Coimbatore.
		14.02.2019	Vedic Mathematics (Autonomy Fund)	Dr.K.Indirani, Retd Associate Professor & HOD, Nirmala College for Women, Coimbatore.
		14.02.2019	Set up your Calculus(DBT)	Rev.Fr.Bharath Jeyaraj & Mr.John Kennedy.M, Salestian Priest & Social Worker, Don Bosco Anbu Illam, Coimbatore.
	2019-2020	18. 07.2019	Applications of Mathematics	Dr.Gnanambal Ilango, Assistant Professor of Mathematics, Govt.Arts College, Coimbatore.
		18. 07.2019	Various topics of Research	Dr. Kala, Professor and Head, Department of Mathematics, Manonmaniyam Sundaranar University, Thirunelveli.
		28. 08. 2019	Availing Financial Assistance for Higher Education in Mathematics	Dr. A. Karthika, Associate Professor, Sri Krishna College of Engineering and Technology, Coimbatore-08.
		06.12.2019	Scilab	Dr.R.Rajeswari, Associate Professor, Department of Computer Applications, Bharathiar University, Coimbatore.
		27.01.2020	Analytical Geometry	Dr.Gnanambal Ilango, Assistant Professor of Mathematics, Govt.Arts College, Coimbatore.
		28. 01. 2020	Scope of Mathematics in Data Analytics	Dr. Ponnusamy, Associate Professor and Head, Govt. Arts college, Coimbatore.
		28. 01. 2020	Future Prospects of learning Mathematics	Dr. L.Lakshmana, Dean, Mathematical Sciences, PSGR Krishnammal College, Coimbatore.
Computer Science, Computer Application,	2014-15	24.01.2015	Mobile Operating System & Android	1.Mr.Eshwaran, Teachnical Head, Poras Technologies, Coimbatore.

Information Technology				2. Mr.Nowshath, Business-D-Executive, Poras Technologies, Coimbatore.
		09.02.2015	Making Objects Animate Using Flash	1.Mr.Gopinath. Multimedia Training, CSC Software Education Coimbatore. 2. Mr.Muthuraman, System Administrator, CSC Software Education Coimbatore.
		27.02.2015	Networking Using Java	Mr.Ganeshan, Associate Professor,PG & Research, Department of Computer Application, Hindustan College of Arts And Science, Coimbatore.
	2015-16	10.08.2015	Guest Lecture	Ms.Rani Ramakrishnan,Profit Centre Head, Cegonsoft Private Limited,Coimbatore
		14.08.2015	Guest Lecture	Mr.B.Gunalan,Director School Of Computer Science, Cms College Of Science And Commerce,Coimbatore
		25.08.2015	Guest Lecture	Mr.S.Karthikaeyan B.E,Technical Supporter, Arris Infotech, Coimbatore
		01.09.2015	Guest lecture	Mr.James Vineeth, Revelation Management Consulting, Coimbatore
		09.12.2015	Guest Lecture	1.Mr.Sabarinathan Muthu, Senior Technical Consultant, Poras Technologies, Coimbatore. 2.Mr.G.Prasanna, Team Leader, Poras Technologies, Coimbatore.
		10.12.2015	Guest Lecture (Overview about Project)	Mr.Sukumar, Business Head, YRSK Technologies, Coimbatore.
	2016-17	16.09.2016	Scope And Skills Needed For It Industry	Mr. Gowtham Kumar Shanmugam Technical Head , Accent Techno Soft, Coimbatore
		03.10.2016	Self Motivation And Optimistic Thinking	Mr. Vibin Chandar Selvaraj Campus Head, Bluecrest University college, South Africa
		07.02.2017	Network Administration	Ms. K. Keerthana, Assistant System Engineer, TCS, Chennai.

	2017-18	17.07.2017	Guest Lecture BioPerl Programming	Dr. S. Sivashankari Asst. Prof of Bioinformatics, Nirmala College for Women, Coimbatore
		09.01.2018	Guest Lecture Social Mobile Analytics and Cloud	Mrs.V.Bhuvaneshwari, Assistant Professor, Department of Computer Applications., Bharathiar University, Coimbatore.
		19.01.2018	Guest Lecture Molecular Biology (Interdisciplinary)	Dr. K. Poornima, Associate Professor, Department of Biochemistry, Karpagam Academy of Higher Education Coimbatore.
		13.12.2018	Guest Lecture Data Science	Mr.R.JudeKingseley Project Lead, Duratech Solutions Coimbatore.
		20.12.2018	Guest Lecture Career Prospects and Cyber Security as a Career Choice	Ms. Preatha Job Business owner , Elshaddai World Wide & Account Management, Aptask Inc, New Jersey, USA.
	2018-19	18.01.2019	Guest Lecture Cloud Computing	Mr.Abuthahir Technical Head United Info Tech Coimbatore
		06.12.2019	Guest Lecture Python Programming	Ms.I.Mettilda Mary Assistant Professor Dept Of Information Technology Sri Ramakrishna Engineering College,Coimbatore.
		04.02.2019	Guest Lecture Soft Skills	Mr.Antony Raj Assistant Project Manager SAP at BOSCH Coimbatore.
		11.02.2019	Guest Lecture Cyber Security	Dr.M.Mohankumar,MCA.,MPhil.,Ph.d., Assistant Professor, Department of Computer Science. Karpagam Academy of Higher Education,coimbatore.
		13/12/2019	Guest Lecture TECHNICAL	Mrs.Geetha P, Business

				CONTENT WRITING	Analyst ABE Semiconductor Designs, Coimbatore.
			14.02.2019	Guest Lecture Artifical Intelligence And Machine Learning	Mr.Lakshmana Kumar Ramasamy Technical Lead Hindusthan College OF Engineering and Technology,coimbatore.
		2019-20	17.07.2019	Recent Trends In Computer Science	Mrs.I.Elizabeth Shanthi,Professor Department Of Computer Science, Avinashilingam Deemed University For Women Coimbatore.
			16.08.2019	Android	Ms.Sruthy BE Positive Institute for Skilling Pvt Ltd., Coimbatore.
			22.08.2019	Expectations of IT Industry From Freshers	Mrs.S.Priya Impiger Technologies Coimbatore.
			06.09.2019	Competitive Exam	Ms.Yashmi CEO , Sankara IAS Academy Coimbatore
			26.09.2019	Video Editing	Mr.Ajay Ravichandran Operation Manager, G-Tech Company, Calicut.
			09.09.2019	Software Testing	Mr.Ravindran Ganesan Gain Credit LLC Coimbatore.
			04.12.2019	Php & MySQL	Ms.E.Karthiga Accent TechnoSoft Coimbatore.
			06.12.2019	Python Programming	Ms.I.Mettilda Mary Assistant Professor Dept Of Information Technology Sri Ramakrishna Engineering College Coimbatore.
			13/12/2019	TECHNICAL CONTENT WRITING	Mrs.Geetha P, Business Analyst, ABE Semiconductor Designs, Coimbatore

		9/01/2020	BIG-DATA	Dr.Mrs.L.THARA, Assistant Professor, Department of Computer Science, PSG College of Arts and Science College, Coimbatore
		05/02/2020	IoT in day to day Life	Dr.T.Premalatha Assistant Professor,Department of Computer Science, VLB Janakiammal College of Arts & Science,Coimbatore.
		07/02/2020	IoT	Mrs.P. Deepika Assistant Professor, PG & Research Department of Computer Science, Hindusthan College of Arts & Science,Coimbatore.
		15/02/2020	TESTING TOOLS	Mrs.S.Priya, Test Lead Impiger Technologies Coimbatore
		17/02/2020	HACKATHON	Sri Nanda Gopal Mobile App developer Accent TechnoSoft Coimbatore.
		18/02/2020	MACHINE LEARNING IN BIOINFORMATICS	Mrs.Laxmi Sree B.R Assistant Professor, Department of Computer Science, Dr.G.R.Damodaran College of Arts & Science,Coimbatore
		18/02/2020 & 19/02/2020	APP DEVELOPMENT	Mr.A.Ramkumar Android Developer & Trainer, Co-Founder of Model exam,Madurai.
		19/02/2020	RECENT TRENDS ON INFORMATION TECHNOLOGY	Mr.Karthick S Assistant Professor, Department of Computer Science, PSG College of Arts and Science College, Coimbatore.
		20.02.2020	Women's Empowerment in Society	Dr.Navaneeth V Ganesh Startup Entrepreneur Coimbatore.
Geography	2014-15	25.07.14	Guest lecture on Need to conserve the Natural Environment.	Dr. R. Tolstoy, Prof. of Medicine, Dept. of General Medicine, P.S.G Hospital, Coimbatore.
		07.01.15	Guest lecture on Plate Tectonics	Prof. Ramaswamy, Dept of Geology Madras University, Chennai.
		04.02.15	Guest Lecture on	Sadhir Nair

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			Vazhikatti (Tracking with GPS)	Ashmi (Vazhikatti) Private firm
		23.2.15	Guest Lecture on Coimbatore city- Drinking water treatment and supply	Mr. R.Venkatachalam, AE, Mr.A.Irudhaya Devanadhan, Work Inspector, TWAD Board, Siruvani, CBE
		25.02.15	Guest Lecture on Basics of Global Navigation Satellite System (GNSS)	Mr.K.Kannan, Deputy Business Manager, Civil-Survey/ Trimble, Chennai
	2015-16	27.07.2015	Guest Lecture on the topic " Influence of Geographical factors on the evolution of Coimbatore city"	Mr.C.R. Illangovan, City biographer
		16.10.2015	Guest Lecture on the topic "Capabilities of GIS"	Prof.N.D.Mani, Director, Centre for Geo informatics, Gandhigram Rural University
		07.01.2016	Guest Lecture on the topic "Parambikulam Aliyar Project"	Mr.Illangovan, SE, PWD, Parambikulam Aliyar Project Circle, Pollachi
	2016-17	31.08.2016	Guest lecture on the topic "Conservation of water resources"	Rajesh Govindarajalu, Apex body member, Siruthuli
	2017-18	26.07.2017	Guest lecture on "National Highway networks of India"	Mr. Udhayashankar, Project director- DGM, National Highways Authority of India Coimbatore
		18.08.2017	Guest lecture on "Traditional water conservation/ harvesting systems of India" (under DBT scheme)	Mr.V.Govindankutty, Assistant Professor in Geography Govt. College, Chittur
		06.09.2017	Guest lecture on "Urban infrastructure- Water Treatment" (under DBT scheme)	Mr. Irudhayaraj, Superintend Engineer Siruvani Water treatment Plant,Coimbatore
		13.09.2017	Guest lecture on "Mangroves and	Dr. Goldin Quadros Sr. Scientist,

			coastal protection" (under DBT scheme)	Wetland Ecology division SACON
		15.09.2017	Guest lectures on "Genetically modifies crops and the environment" (under DBT scheme)	1. Mr. Selvaraj Coordinator, Tamilnadu Organic Farmers Association Biobasics, sustainable farming and food activist. Coimbatore 2. Ms. Sreedevi Lakshmikutty Co founder-
		18.09.2017	Guest lecture on "Geographical Information System and its application in Geography" (under DBT scheme)	Prof. K. Kumaraswamy UGC-BSR Emeritus Professor Department of Geography Bharathidasan University, Tiruchirappalli
		27.09.2017	Guest lecture on "Geographical Information System and its application in Urban Studies" (under DBT scheme)	Dr. Sulochana Shekhar Professor & Head Department of Geography School of Earth Sciences Central University of Tamil Nadu Neelakudi Campus Kangalancherry Thiruvarur
		06.12.2017	Guest lecture on "Astronomy & Celestial Navigation" (under DBT scheme)	Mr. Kuppusamy, Retd Sr. Technical Officer, Indian Institute of Astro-Physics, Bengaluru
		11.12.2017	Guest Lecture on "Role of River Noyyal in the development of Kongu History" (under DBT scheme)	Dr. T. Ilangovan (Retd) Professor in History, Govt. Arts College, Coimbatore
		08.01.2018	Guest Lecture on "Astronomy & geography" (under DBT scheme)	Dr.K.Smiles Mascrenes, Dean of Academic Affairs, Coimbatore Institute of Educational Technology Coimbatore
		19.01.2018	Guest Lecture on "Environmental Impact Assessment" (under DBT scheme)	Dr.P.R. Arun Principal Scientist, SACON,Anaikatti

		12.02.2018	Guest Lecture on "Importance of human values in the current Scenario"	Dr.B.Ilango Balakrishnan Former-Vice Chancellor Bharathiar University
		16.02.2018	Guest Lecture on "Changing Climatic conditions in Coimbatore"	Dr. S. Panneerselvam, Professor and Head, Department of Agro Climate Research Centre , Tamilnadu Agricultural University
		26.02.2018	Guest Lecture on "Geography & Competitive Examinations" (under DBT scheme)	Mr.M.RajKumar, Coordinator, KPR IAS Academy, Coimbatore
	2018-19	11.07.2018	Guest lecture on World Population Day-Importance	Dr. AudiNarayanan Former Professor Department of Population Studies Bharathiyar University/SVV University
		20.07.2018	Guest lecture on Geography in UPSC Examinations	Mr. Aravinth Kumar Inspector District Cooperative Society, Coimbatore
		30.08.2018	Guest lecture on Civil Services Examinations (under DBT scheme)	Mr. M. Ram Kumar& Mr.Riyaaz Coordinators KPR Academy , Coimbatore
		28.09.2018	Guest lecture on "Remote Sensing of the Environment" State of the art technology to understand our changing environment (Under DBT Scheme)	Dr. Arun Prasad K. Assistant Profes Central University of Tamil Nadu Thiruvarur.sor Department of Geography
		01.10.2018	Guest lecture on The Need for Gender Sensitive Disaster Management (Under DBT Scheme)	Dr. Rubeena T.A. Assistant Professor Department of Geography University College Trivandrum
		26.11.2018	Guest lecture on Food and Sustainability (Under DBT Scheme)	Mr. Srikanth Co Founder Mannpuzhu ,Bangalore

		18.01.2019	Guest lecture on Importance of Western Ghats	Ms.Akhila Treasurer, Osai NGO Treasurer, Osai NGO
		22.02.2019	Guest lecture on Health In Your Hands	Dr. Deiva Priyaananth Pediatrician Pirrai – An Institute Of Indian Medical Sciences Saibaba Colony, Cbe .
		27.02.2019	Guest lecture on Motivational Talk-Future is in your Hands	Alumna – Ms. Malathi Raja Principal Sri Chaithanya Techno School ChinnaVedampatti Campus
	2019-20	19.07.2019	Guest Lecture on Personality development	Dr.Annalakshmi Narayanan, Professor in Psychology, Bharathiar University, Coimbatore
		20.09.2019	Guest Lecture on "Cracking UPSC exams and Civil Service"	Mr.Rajkumar & Dinesh Kumar KPR – IAS Academy Institute for IAS, IPS & IFS coaching
		29.11.2019	Guest Lecture on "Chemistry of Food and Geography" (Under DBT)	Dr.S.K.Krishna Assistant Professor Chikkaiah Naiker College SathyRoad, VeerappanchatramPost, Erode-638004.
		10.01.2020	Guest Lecture on "Geoinformation Technology for Natural Resources – Management" (Under DBT)	Dr. Shijo Joseph, Assistant Professor, Remote Sensing and GIS Department, Kerala University of Fisheries and Ocean Studies

Course Co-ordinator   **Head of the   Institution**

(With seal)   **(With seal)**

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)
Statement of expenditure: Non Recurring

Department	Year	Date	Item	Quantity	Amount in Rupees
Mathematics	**2017-18**	01.08.17	Software Matlab	1	2,36,000.00
		18.09.17	7 (seven)Systems	7	1,83,785.00
		22.09.17	XL Battery service	1	70,236.00
		22.09.17	Printer	1	9,970.00
		07.02.17	CD	1	9.00
				Total	**500,000.00**
Computer Science	**2017-18**	18.09.17	7 (seven)Systems	1	Rs. 1,24,419.49
		22.09.17	XL Battery service	1	Rs. 8,700.00
		22.09.17	Printer	9	Rs. 2,76,011.99
		07.02.15	CD	9	Rs. 30,798.00
			TOTAL	9	Rs. 36,108.95
				Total	**Rs. 5,00,000.00**
Geography	**2017-18**	17.07.2017	computers(1 server)	**5**	Rs. 255300
		19.8.2017	Wireless microphone	1	Rs. 3590
		01.12.2017	Audio equipments	1	Rs.42870
		20.12.2017	GPS units	8	Rs. 198240
				Total	**5,00,000**

RECURRING EXPENDITURE

Department	Year	Date	Item/ Activities	Amount in Rs.
		21.07.2017	Guest Lecture on Continuous Functions and metric Spaces – – Dr.Muthurasu	1600
		26.07.2017	Hands on Training on SPSS-IBM	2000
		02.08.2017	Guest Lecture on Big Data – Mr.Krishna	2000
		03.08.2017	Hands on Training in MATLAB	1000
		23.08.2017	Hands on Training in MATLAB	3170
		24.08.2017	Guest Lecture on FOSS for Mathematics	2500
		30.08.2017	Motivational Talk by Mr.Madan	1000
		01.09.2017	Field trip to Kavalur	14000
		02.09.2017	Eco Trip from Kavalur to Yelagiri	14330
Mathematics	2017-2018	13.09.2017	Motivational talk to do Research – Ms.Mabel Lizzy.	1600
		10.10.2017	Seminar on Fundamentals on Complex Analysis	16005
		16.10.2017	Books (Pai & Sons)	9964
		24.11.2017	Workshop on LATEX-Dr.Mallikaarjunan	5393
		06.12.2017	Symposium on Analysis	3585
		13.12.2017	Cheran Book House (Prize for Ramanujam Day Celebration)	7746
		15.12.2017	Ramanujam Days Celebration	8215
		21.12.2017	Workshop on R	5000
		05.01.2018	National Seminar –Trends and Challenges in Mathematics	32818

		25.01.2018	Faculty Development Programme in LINUX	7352
		31.01.2018	Eyeshot of Lunar Eclipse – Outreach Programme	2500
		01.02.2018	Document preparation- Mrs.Ann Usha Mangalam	2000
		05.02.2018	Workshop on R- Dr.VijayaKumar	3541
		06.02.2018	Animation using Powerpoint – Ms.Jhansi Rani	2000
		10.02.2018	Workshop on LATEX	3000
		10.02.2018	Symposium on Algebra- Mr.Gnanaprakasam	6848
		13.02.2018	Hands on Training in MATLAB	7254
		14.02.2018	Introduction to Graph Theory – Guest Lecture by Lt.Dr.S.Shivashankar	7254
		15.02.2018	Hands on Training on Statistics for Marketing and Consumer research. (Using SPSS)	2150
		16.02.2018	Hands on training in SCILAB	3054
		21.02.2018	Outreach Programme in Astronomy	6438
		22.02.2018	Motivational Talk on Women Empowerment- Mrs.Arockia Roselin	2000
		22.02.2018	A demonstration on Cosmo Learning Astronomy- Out reach Programme	2500
		24.02.2018	Application of Differential Equation – Guest Lecture- Dr.C.Veramani.	2100

		01.03.2018	Seminar on Differential Equation- Dr.Karuppiah.	5406
		08.03.2018	Women Empower ment – Rev.Dr.Sr.A.Arulseeli.	650
		12.03.2018	Guest Lecture on Applications of Mathematics in Botany- Dr.Mary Josephine.	2000
		14.03.2018	Introduction to LATEX Book	3000
			Total	**200000**
	2018-2019	05.10.18	Guest Lecture - Mrs. Neeta	1000
		08.10.18	Guest Lecture - Mr.K.Kuppusamy	600
		11.10.18	Guest Lecture- Dr.P.Rajerajeswari	1140
		12.10.18	Workshop- Mrs. Neeta	5000
		13.10.18	Workshop- Mrs. Neeta	5085
		16.10.18	Soft Skills Training – Mr.Saravanankumar	2175
		27.11.18	FDP- Dr.G.Sathyavathy	5580
		01.12.18	Field Trip- Lalitha Tours	24000
		20.12.18	Ramanujam Day celebrations Intercollegiate	20420
		04.01.19	Eyeshot of Lunar Eclipse- Outreach Programme	2000
		05.01.19	Workshop- Dr.Mallika Arjun	5230
		07.01.19	Workshop- Mr.Thiagarajan	5230
		19.01.19	Hands on Training - Mr. Sukumar	5194
		24.01.19	Hands on Training- Mrs. Nita Bhupatrai	5156
		01.02.19	Certificate course-Mr. Kuppusamy	17000
		01.02.19	Lecture Workshop - Mr.Karuppiah	6375
		02.02.19	Symposium - Mr.Karuppiah	6450

		04.02.19	Workshop- Nita Bhupatrai	5365
		13.02.19	Guest lecture- Mrs. Gayathri Devi	1000
		13.02.19	Guest lecture-Dr. Thangaraj	1000
		13.02.19	Guest lecture-Dr. Suvindra	2000
		14.02.19	Guest lecture-Mr. Senthil Kumar	1000
		14.02.19	Guest lecture-Mr. John Kennedy	2740
		16.02.19	Hands on Training-Mrs. Jansi	2000
		19.02.19	Industrial visit -Mr.Christopher Dhanapal	12000
		21.02.19	National seminar	24435
		02.03.19	Hands on Training -Dr. Kannimuthu	6000
		02.03.19	Hands on Training- Mrs. Ann usha mangalm	2000
		02.03.19	Lecture workshop-Mr. Gnanaprakasam	7325
		04.03.19	FDP- Dr.Satyavathi	7000
		04.03.19	Guest Lecture- Dr Mary Josephine	2000
		05.03.19	Project Viva Voce -Dr.G.Sindhu	2000
		05.03.19	Group Project- Printing &Xerox	4500
			Total	**200000**
Computer Science	2019-2020	05.12.2019	National Seminar	42837
		06.12.2019	Guest lecture- Scilab	2000
		12.12.2019	Hands on Training- R language	5252
		17.12.2019	Hands on Training- Data Analytics	5350
		19.12.2019	Workshop – Data Analytics	5100
		20.12.2019	Ramanujan Day Celebration- Inter Collegiate	31695
		20.12.2019	Workshop- Advanced Excel and PPT	4165
		08.01.2020	Course- Astronomy	15000
		11.01.2020	Industrial Visit- Mettupalayam (II B.Sc)	13080

		13.01.2020	Workshop- Latex	5175
		23.01.2020	Inter-school competition	19965
		24.01.2020	Industrial Visit –Coonoor (I B.Sc)	18000
		27.01.2020	Guest Lecture- Analytical Geometry	2190
		21.02.2020	Project Binding	2348
		25.02.2020	Books Purchased- Pai & Sons	20656
		27.02.2020	Symposium- Analysis	7187
			TOTAL Amount	**200000**
	2017-18	17.07.2017	**Guest Lecture** BioPerl Programming	Rs. 4,000.00
		20.07.2017 & 21.07.2017	**Two Day Hands on Training** Python Programming	Rs. 15,000.00
		24.07.2017	**One day Workshop** Bio Python Programming	Rs. 3,000.00
		17.08.2017 & 18.08.2017	**Two day Hands on Training** Bio Perl Programming	Rs. 18,000.00
		06.10.2017	**One Day Hands on Training** R Programming And Analytics (Interdisciplinary)	Rs.10,000.00
		26.10.2017	Books Purchased Under DBT	Rs. 17,000.00
		09.12.2017 & 10.12.2017	**Industrial Visit** Genotypic Technology, Bangalore.	Rs. 10,000.00
		19.12.2017	**One day workshop** Project Development Using Bioperl	Rs. 10,000.00
		21.12.2017	**Industrial Visit** BSNL Office (Opp to Railway station) & Saibaba colony, Coimbatore	Rs. 11,000.00

		26.12.2017 to 30.12.2017	**Five day Winter Training Programme** Multimedia-VFX Apex Institute of Multimedia, Coimbatore.	Rs. 20,000.00
		09.01.2018	**Guest Lecture** Social Mobile Analytics And Cloud	Rs. 3,000.00
		17.01.2018 & 18.01.2018	**Two day Workshop** Linux (Interdisciplinary)	Rs. 17000.00
		19.01.2018	**Guest Lecture** Molecular Biology (Interdisciplinary)	Rs. 3,000.00
		12.02.2018 & 13.02.2018	**Two day Workshop** Advanced Python	Rs. 20,000.00
		24.02.2018	**Faculty Development Programme** Internet of Things (Interdisciplinary)	Rs. 8,721.00
		28.02.2018	Raspberry Pi 3 LED Resistor Buzzer Bread Board Motion Sensor	Rs. 3,728.98
		21.03.2018 & 22.03.2018	**Faculty Development Programme** Multimedia (Interdisciplinary)	Rs. 17,000.00
		24.03.2018	**Project Development Using PHP and Java** (Dec 2017 – Feb 2018)	Rs. 10,000.00
			Grand Total	**Rs. 2,00,000.00**

		05.12.2018 & 06.12.2018	DIGITAL MARKETING	19,137
	2018-19	07.12.2018 10.12.2018 11.12.2018	PYTHON PROGRAMMING	15,729
		13.12.2018	DATA SCIENCE	2,264
		20.12.2018	CAREER PROSPECTS & CYBER SECURITY AS A CAREEER CHOICE	2,870
		26.12.2018 TO 30.12.2018	WEB DEVELOPMENT IN ANDROID	20,000
		05.01.2019 & 6.01.2019	BIOINFORMATICS	10,000
		18.01.2019	CLOUD COMPUTING	2,200
		04.02.2019	SOFT SKILLS	1,685
		05.02.2019	ARTIFICIAL INTELLIGENCE ROBOTICS & INTERNET OF THINGS(TECH AURA'19)	28,743
		11.02.2019	CYBER SECURITY	3,220
		14.02.2019	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	2,780
		19.02.2019	RECENT TRENDS IN INNOVATIVE TECHNOLOGIES (ONE DAY SEMINAR)	46,999
		21.02.2019	LATEX	7,392
		26.02.2019	RECENT TRENDS IN INFORMATION TECHNOLOGY	2,776
		26.02.2019	APPTITUDE	5,608
		05.03.2019	DATA ANALYTICS WITH R	10,487
		08.03.2019	SELENIUM TOOL	3,110
		NOVEMBER-18 TO FEBRUARY - 19	MUTIMEDIA ANDROID PHP	15,000
			TOTAL	**2,00,000**

		27/11/2019 to 29/11/2019	**Faculty Development Programme** Web Application Development and Deployment using Spring Framework	Rs. 26,650.00
	2019-20	06/12/2019	**Guest Lecture** Python Programming	Rs. 2,044.00
		11/12/2019 and 12/12/2019	**Two Day Hands on Training** Designer Tools	Rs. 17,852.00
		13/12/2019	**Guest Lecture** Technical Content Writing	Rs. 1,516.00
		19/01/2020	**Guest Lecture** Big-Data	Rs. 2,102.00
		10/01/2020 and 11/01/2020	**Two Day Hands on Training** Selenium Tool	Rs. 16,073.00
		14/01/2020 to 19/01/2020	**Six day Winter Training Programme** Android App Development	Rs. 20,000.00
		05/02/2020	**Guest Lecture** IoT in day to day life	Rs. 2,300.00
		07/02/2020	**Guest Lecture** IoT	Rs. 2,300.00
		10/02/2020 to 13/02/2020	**Interdepartmental Competetion**	Rs. 9,640.00
		15/02/2020	**Guest Lecture** Testing Tools	Rs. 2,300.00
		17/02/2020	**One Day Technical Seminar** Emerging Technologies in Bio-Informatics	Rs. 11,250.00
		18/02/2020	**Guest Lecture** Machine learning in Bioinformatics	Rs. 2,231.00
		18/02/2020 and 19/02/2020	**Two Day Hands on Training** Workshop On Application Development	Rs. 12,395.00

		19/02/2020	**Guest Lecture** Recent Trend in Information Technology	Rs. 2,300.00
		20/02/2020	**One Day Technical Meet** Computing in BioInformatics	Rs. 10,540.00
		22/02/2020	**Industrial Visit** Biozone Research Technologies Pvt Ltd , chennai	Rs. 15,000.00
		03/03/2020	**Project**	Rs. 15,000.00
		05/03/2020	**One Day Hands on Training** Tech Reality	Rs. 25,507.00
		05/03/2020	**Books**	Rs. 3,000.00
			TOTAL	Rs. 2,00,000
Geography	**2017-18**	10.7.17 & 11.7.17	Local field trips to local museums	Rs.5475
		2.8.17	Extension program to schools-Symposium followed by a workshop on the Survey of India and its topographical sheets	Rs.23700
		03.08.2017	Student Workshop on the Numbering of SOI toposheets	Rs. 2000
		18.8.17	GL- Traditional Water harvesting systems	Rs. 4350
		29.8.17	Extension program to schools- Geo Quiz and exhibition on Cartography	Rs.12112
		31.8.17	Drinking water treatment(siruvani WTP)	Rs. 2120
		13.09.2017	Mangroves & coastal protection	Rs.2120
		15.9.17	The science and politics of food and farming	Rs. 7700
		18.9.17	Geography and GIS	Rs. 5120
		20.9.2017	Field trip to water treatment plant	Rs. 12500
		25.9.2017	Field trip to Nelliampathy to view the Palghat Gap	Rs.25075
		29.09.2017	GIS in Urban Geography	Rs. 2000
		06.12.2017	Astronomy and Navigation	Rs. 2340

		13.10.2017	Field Trip to Eravikulam Sanctuary and Chinnar	Rs. 22056
		11.12.2017	Noyyal River & the Kongu civilization	Rs. 2086
		12.12.17	Student Workshop- Disaster Management Awareness	Rs. 9847
		15.12.2017	Field trip to Nilgiri Biosphere Reserve Park	Rs. 10050
		16.12.2017	Field trip to Topslip	Rs. 11000
		19.12.17	27 Books	Rs. 8509
		20.12.2017	Student Workshop on GPS	Rs. 5646
		08.01.2018	Astronomy and Geography	Rs. 2900
		19.01.2018	EIA	Rs. 2115
		29.01.2018	10 Books	Rs. 2465
		30.1.2018	19 Books	Rs. 5319
		14.02.2018	Student Workshop on Aerial Photographs	Rs. 7773
		26.02.2018	Geography & competitive exams	Rs. 2770
		26.02.2018	Stationary	Rs.916
			Grand Total	**Rs. 2,00,000.00**
	2018-19	11.07.18	Guest lecture-Importance of world population day 2018	Rs.4072
		24.07.18	Local Field trip to Gass forest museum	Rs.2856
		26.07.18	Local field trip to Regional science center	Rs.2920
		07.09.18	Local field trip to TNAU meteorology station & insect Museum	Rs. 1024
		12.09.18 to 14.09.18	Educational trip to Trivandrum and Kanyakumari	Rs.36440
		28.09.18	Guest lecture –Remote sensing of the environment	Rs.6119
		16.09.18 to 22.09.18	Workshop on" creating a sustainable future" at Auroville Pondicherry- Attended by 3 students	Rs. 15000

		01.10.18	Guest lecture –Gender sensitive disaster management	Rs.6072
		5.10.18	Symposium, exhibition and Geo Quiz- 'Day Zero and traditional water wisdom'	Rs. 26955
		26.11.18	Guest lecture –Food and Sustainability	Rs. 7072
		29.11.18	Workshop –Menstrual hygiene and sustainable environment	Rs.9230
		07.12.18	Workshop- Bio enzymes for Healthy Environment	Rs.8551
		14.12.18	Field trip to Siruvani water treatment plant	Rs.18241
		18.12.18	Books	Rs.2308
		05.01.19	Fieldtrip to Kundah power house II at Geddai & Athikadavu	Rs.24140
		06.02.2019	Intercollegiate competition for students	1608
		15.02.19	Workshop on Global positioning system	Rs.11053
		11.02.19	Books	Rs.16339
			Grand Total	**Rs. 200000.00**
		29.11.2019	Guest Lecture on "Chemistry of food & Geography"	5000
		3.12.2019 to 5.12.2019	Internship for students @ IRTC	15000
	2019-20	11.12.2019	Field Trip to Siruvani Water Treatment Plant & Covai Courtallam	26000
		18.12.209	Field Trip to Vavumala & Malampuzha, Palakkad	25000
		6.1.2020 to 8.1.2020	Workshop on Total station	72000
			Workshop on DGPS	
			Workshop on drone survey	

		10.1.2020	Guest lecture on "Geo Information technology for Natural Resource management"	7000
		13.1.2020	Extension Program- Visit to Palamalai Village	9000
		10.1.2020	Books	25050
		27.01.2020	Prize for Interdepartmental Poster Design & Quiz competition to commemorate World Population Day - 2019	4000
		03.02.2020	Workshop on Bio Enzymes for Staff Members	5700
		28.02.2020	Student project-printing and binding	6250
			Grand Total	**Rs. 2,00,000.00**

Course Co-ordinator   **Head of the Institution**
 (With seal)   **(With seal)**