PROGRESS REPORT BY COLLEGES

SUPPORTED UNDER THE STAR COLLEGE SCHEME

(BT/HRD/11/019/2017)

(2019 – 2020)

SUBMITTED TO

DEPARTMENT OF BIOTECHNOLOGY

GOVERNMENT OF INDIA

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)
Reaccredited with 'A' Grade by NAAC in the 3rd cycle with CGPA of 3.62
Awarded STAR status to the Departments of Botany, Chemistry and Zoology
Supported by DST FIST at Zero level
Redfields, Coimbatore – 641 018.
Tamilnadu

APRIL 2020

ABOUT THE COLLEGE

Nirmala College for women, situated in Red fields, Coimbatore-18 is run by the Congregation of the Franciscan Sisters of the Presentation of Mary.

The College had its humble beginning as a second grade College in the year 1948. The founder Msgr.Oubagarasamy,D.D., the Bishop of Coimbatore, with a missionary zeal and farsighted vision worked to contribute his mite to the tremendous task of developing women's education for the development of free India. He sent a proposal to the University of Madras requesting permission for the Coimbatore Diocese to start a college for women in Coimbatore. Thus Nirmala College came into being on the first of July 1948. The college has now emerged as one of the premier institutions of learning, propagating higher values of education and learning, with hopes and dreams to achieve her goal, "*Knowledge purifies, Charity Enhances*".

In recognition of the high academic performance and service the college was accredited with "**A**" **grade** by NAAC during the academic year 2003-04 and was conferred A**utonomous status** in the year 2007.

The enhancement and sustenance of quality led to the reaccreditation with "A" Grade in the academic year 2010-2011. The UGC Expert committee visited the college on 22nd and 23rd April, 2014. In the year 2016 the college was once again reaccredited in the III cycle of NAAC to 'A' Grade with a score of 3.62 on a 4 point scale. Having secured 'A' Grade in all three cycles and with a CGPA score above 3.5, NAAC has extended the accreditation period to seven years. In view of the above achievement, UGC has extended the Autonomous Review to a period of 10 years. The science departments are strengthened under DST – FIST at zero level.

AIM

Nirmala College for Women aims to equip young women with quality education and life skills, personal skills and social skills that ensure productivity and confidence to take the rightful place in all areas of life, public and private.

OBJECTIVES

In pursuit of this aim, Nirmala College for Women seeks

- To nurture in the students intellectual curiosity, a quest for knowledge and the ability to translate their knowledge to creative use.
- To develop in the students a capacity to identify their own potential and form a holistic personality.
- To mould the students into morally upright and spiritually enlightened human beings
- To sensitize students to be socially committed, to awaken their conscience and enable them to emerge as active agents of social change.
- To ever promote National Integration.

PROFORMA FOR THE SUBMISSION OF PROGRESS REPORT (2019-20)

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)

1. Name of the College   : Nirmala College For Women (Autonomous)

2. Name of the Departments supported   : Mathematics, Computer Science, Geography

3. Name of Coordinator, designation,

    Address, phone no.   : Dr. Pawlin Vasanthi Joseph

                                         Associate Professor and Head

                                         Department of Zoology

                                         Nirmala College for women (Autonomous)

                                         Mobile: +91 9655513364

4. No. of regular faculty with Ph. D in each participating departments:

Sl. No.	Department	No. of Faculty	With Ph. D	With M. Phil	With P. G
1.	Mathematics	11	10	-	1
2.	Computer Science	18	2	15	1
3.	Geography	5	2	2	1

3. List of courses (B.Sc/M.Sc/PG Diploma, certificate etc) run by different participating departments:

Sl. No.	Department	Courses offered
1.	**Mathematics**	B. Sc M. Sc M. Phil Ph. D PGDOR

2.	**Computer Science**	B. Sc (Computer Science) M.Sc. (Computer Science) BCA B. Sc (Information Technology) Certificate course in Multimedia Post Graduate Diploma in Computer Applications (Affiliated to Bharathiar University)
3.	**Geography**	B. Sc M. Phil Ph. D

4. Cut off percentage for admission in different courses in participating departments, positions in University, percentage of result in 2019-20 academic session:

Sl. No.	Department	Total strength of students	Cut off percentage	Position in University	% of Result Nov.2019
1.	**Mathematics**	I B.Sc - 44	80 %	Autonomous	95.45%
		II B.Sc - 55			100%
		III B.Sc - 44			95.45%
2.	**Computer Science**	I B.Sc CS - 49	Above 60%	Autonomous	96.86%
		II B.Sc CS - 45			80.74%
		III B.Sc CS - 46			100%
		I BCA - 43	Above 60%		95.93%
		II BCA - 66			98.05%
		III BCA - 45			96.67%
		I B.Sc IT - 38	Above 60%		93.18%
		II B.Sc IT - 48			100%
		III B.Sc IT - 42			100%
3.	**Geography**	I B.Sc - 49	40%	Autonomous	62%
		II B.Sc - 40			65%
		III B.Sc - 39			75%

5. List of projects undertaken by students, industrial visits by students, summer training in last one year.

Department	List of projects	No. of Students (Under projects)
II B.Sc MATHEMATICS Group Project on R Language	i. A study on sales in super market using R - language	4
	ii. A study on sales in a medical shop using R - Language	4
	iii. A study on performance of students using R - Language	4
	iv. An investigation on marks in a school using R - Language	4
	v. Mass provision using R - Language	4
	vi. A Study on medical shop data using R - Language	4
	vii. An Investigation on sales in a sports shop using R - Language	4
	viii. An investigation on sales using R - Language	4
	ix. A study on sales in a super market using R - Language	4
	x. R Programming with salary data	4
	xi. A study on sales in a online shopping Portal using R - Language	4
	xii. A study on chemical fertilizers	4
	xiii. A study on sales in a super market using R - Language	3
	xiv. A study on medical shop data using R - Language	4
III B.Sc., Inter disciplinary project work	Data Analytics (Individual Project)	19

	PROJECTS IN PHP	
	"**ONLINE BLOOD DONATION MANAGEMENT SYSTEM**" • The purpose of the project is to find out who are in need of blood. • In this system the donor and the user directly comes in contact through website	2
	"**PHARMACUETICAL MANAGEMENT SYSTEM**" • The user can login and purchase medicines for various diseases through the website. • It is used to update and delete medicine stock information.	2
B.Sc (Computer Science)	"**EXAM HALL ALLOCATION SYSTEM**" • It facilitates to access the exam seating arrangement information of a particular student belonging to a particular department. • It is also applicable for both staff (invigilators) and students.	2
	PROJECTS IN .NET	
	"**MEDICINE DONATION MANAGEMENT SYSTEM**" • The aim of this project is to donate unused medicine to the trust members at free of cost through our website.	2
	"**STUDENT PERFORMANCE GRAPHICAL ANALYSIS SYSTEM**" • This project is to manage academic marks, attendance and project details of the student in a graphical manner which is accessible to both faculty and students.	2
	"**PROJECT EVALUATOR**" • The purpose of the project is to schedule the work process which makes the administrator to analyze the status of the project.	2

		PROJECTS IN ANDROID	
		"VOICE ASSISTANCE APP FOR VISUALLY IMPAIRED" • The purpose of our application is to provide voice assistance for blind people to use smart phone functionalities such as mail, phone, music etc.	2
		"AGRICULTURE INFORMATION APP" • The purpose of the app is to provide the details of soil and method of cultivation, schemes allocated by government to the farmers in a user friendly manner.	2
		"WOMEN SAFETY APP" • The aim of this app is to ensure the safety of women and to help them in emergency situations.	2
BCA		PROJECTS IN PHP	
		"POWER TO EMPOWER DIGITAL INDIA" • **Power to Empower Digital India** is planned for providing a complete automation on handling citizen's needs and complaints in the Government. • This website helps the user to give the complaints and know the action status about their complaint.	2
		"STUDENT INFORMATION SYSTEM" • It is a webpage which is used to manage student result details. • This is designed to easily access and maintain the student details using smart phone online. • Parents can view the student mark details.	2
		PROJECTS IN .NET	
		"UNIVERSITY ADMISSION SYSTEM" • All the process can be done in mobile phones also. • It is easy to access this application by any user at anytime and anywhere. • The student's details are maintained confidentially by providing proper access rights.	2

	"**HEART DISEASE PREDICTION USING NAIVE BAYES CLASSIFIER**" • It is to develop an intelligent system using data mining modelling techniques, name, and naive bayes. • It is a web based application the user answers the predefined question data mining plays an important role in early prediction of diseases.	2
	PROJECTS IN ANDROID	
	"**FOOD SCANNER**" • A novel approach on measuring food nutrition through a product and a Barcode Scanner. • It helps to find the Ingredients available in the packed food product and suggest a message box if the calories or fat exceed the normal persons must consume in their day to day life.	2
	"**FAV LAND AN APP FOR FARMERS AND INVESTORS**" • App for investors and farmers which can act as a handbook for them. • It provides the user way to shop product under many categories .The use of this project is working towards making the bridge between investors and farmers. • This app reduces cost for farmers, maximum yield and increase profits.	2
	"**SAATHI-LOCATION BASED VOICE REMAINDER**" • The user to set a remainder, which will be triggered when he reaches the specified location. • The main motive of our app is to help the alzheimer's patients in their daily life. • A text to speech converter is used so that the user just has to enter the required message. • The user tags the location using the Google maps API	2

	PROJECTS IN PHP	
	"**ONLINE COLLEGE ADMISSION SYSTEM**" • The project is entitled as "ONLINE COLLEGE ADMISSION SYSTEM" created by using PHP as a front end and MYSQL as a back end. • The main objective of developing this admission system is to maintain the academic institute's admission structure and its related operation and functionality. • Student should login through username and password. The student can fill their detail in admission form and the can also attach their documents. • Administrator handles the overall process of the system allows the administrator to update the course details in the database . • The admin can view the department wise student details to shortlist the student easily.	2
B.Sc (Information Technology)	"**ONLINE EVENT MANAGEMENT SYSTEM**" • This is an online event management system software project that serves the functionality of an event manager. • Our main aim of this project is to make and provide an ideal software solution to book events, protect user data and to save the valuable time of the user. • New users should register and then login but already registered users can directly login. • Once the user selects an event type, the system provides each and every information of the event like event calendaring, venue scheduling, providing details of manager and volunteer and event equipment.	2
	"**AUTOMATIC TIME- TABLE GENERATOR**" • The main objective of developing this time table generator is to generate the Staff Time Table and Laboratory Time Table.	2

• The details for the Time Table can be entered in the application. • The Generation of Report is done automatically.	

<div align="center">PROJECTS IN .NET</div>

"LEAVE MANAGEMENT SYSTEM" • The Leave Management System (LMS) is an application that can be accessed by all the students of the organizations or a college and can be accessed throughout organization and its department. • This system can be used to automate the workflow of leave application and the approvals. • The periodic crediting of leave is also automated.	2
"GRAPHICAL PASSWORD TO EVADE SHOULDER SURFING" • User authentication is a fundamental component in most computer security contexts. • It provides the basis for access control and user accountability. • While there are various types of user authentication systems, alphanumerical username/passwords are the most common type of user authentication. • They are versatile and easy to implement and use. Alphanumerical passwords are required to satisfy two Contradictory requirements.	2

<div align="center">PROJECTS IN ANDROID</div>

"ONLINE STUDENT FEES MANAGEMENT SYSTEM" • This application is entirely GUI based, user friendly since the user(student) can also include the parents ,it is easy to understand and operate. • It includes the attendance of the student apart from the fees details. • This project tracks all the details of the students, day one to end of his/her course , which can be	2

	useful for all reporting purpose , tracking enrolment status and all these will be available	
	"**PLACEMENT TRAINER**" • Placement Training is an important part of all educational institute, in which most of the work till now is being done manually. • It is smart android based application used to find the placements. • This application can help the placement officers to provide the details of upcoming companies. • Students will receive notification. • If any changes is need to be made in the student details the student can make a request to the placement officer. • The main objective of the training and placement department is to manage the details of the placement, student details, overall academic details of the students, and their technical skills.	2
	"**RENTAL HOUSE MANAGEMENT SYSTEM**" • Housing sector remains vigilant to face the challenges of change by employing a new strategy that facilitates easy management of rental houses. • Hence there is need to develop a rental house management system that can simplify work for the rental managers so that all their work can be efficient and effective. It provides the facility to find house for rents without travelling. • Here the owner provides each and every information of the houses available. • So the user can access the information from any place. It is user friendly.	2
Geography	Survey and assessment of campus features using total station and DGPS	8
	Aerial Survey of campus using drone and mapping	8
	Extraction of Surface water bodies using Remote Sensing Techniques, a case study of Madurai District	8
	Identification of Urban Sprawl Using Remote Sensing	8
	Rainfall Trend Analysis of Coimbatore District over the last 5 decades.	7

B. Industrial Visits for Students:

Department	Date	Industrial Visit	No. of Students and Class
Mathematics	11.01.2020	ITC Paper Board Ltd Mettupalayam -	55 II B.Sc
	24.01.2020	Pasteur Institute,Coonoor and Dodabetta Tea Factory,Ooty	44 I B.Sc
B.Sc (Computer Science) , BCA, B.Sc(Information Technology)	22.02.2020	Biozone Research Technologies Pvt Ltd., 7 Kumaran Nagar, Radial Road, Zamin Pallavaram, Chennai	48 (IInd year UG students of Computer Science, Computer Applications and Information Technology)
Geography	9.7.2019 & 15/7/2019	Local field trips to Gass Forest Museum and Regional Science Centre and TNAU and Insect Museum	I, II & III yrs, 119 Students
	22.08.2019 to 25.08.2019	Educational trip to GOA	III yrs 28 Students
	11.12.2019	Field trip to Siruvani water treatment plant	I years 42 Students
	18.12.2019	Fieldtrip to Vavumala & Malampuzha, Palakkad	II yrs 33 Students
	13.1.2020	Extension Program- Visit to Palamalai Village	III yrs 38 Students

C. Summer/Winter Training:

Department	Date	Summer /Winter Training	No. of Students/ faculty
B.Sc. Computer Science **BCA** **B.Sc (Information Technology)**	16.01.2020 to 19.012020	Android App Development, Techi 4s Training Solutions, Coimbatore.	30 (IInd year UG students of Computer Science, Computer Applications and Information Technology)

	03.03.2020	Project Training for App development Smartway Automation, Coimbatore	15(IInd year UG students of Computer Science, Computer Applications and Information Technology)
Geography	17.2.2020 to 8.3.2020	Winter School in Geo Spatial Technologies by NRDMS, DST, GOI.	Sr. Helen Jenifer

6. Training received by faculty from participating departments :

Department	Date	Training	No. of Faculty
Mathematics	15.06.2019	Faculty development programmes innovating smart teachers- skill based reflective teaching	121
	30.10.2019	Faculty Development Programme on Innovative Teaching Strategies Curriculam Development Cell, Nirmala College For Women, Red Fields, Coimbatore - 18	10
	04.12.2019 to 19.12.2019	Refresher Course in Mathematics and Statistics, UGC- HRDC Bharathiar University, Coimbatore.	01
	4.12.2019 to 10.12.2019	Short term Course in MOOCS, E-Content & Open Educational Resources at UGC- HRDC Bharathiar University, Coimbatore.	01
	22.2.2020	Workshop on Revised guidelines for the Accreditation process of NAAC, Internal Quality Assurance Cell, Nirmala College for Women, Red Fields, Coimbatore - 18	01
B.Sc (Computer Science), BCA, B.Sc(nformation Technology)	27/11/2019 to 29/11/2019	**Faculty Development Programme** Web Application Development and Deployment using Spring Framework	18

Department	Date	Exhibition, Seminars, Training	No. of Participants
Geography	27.05.2019 To 31.05.2019	Hands on Training Programme on "Remote Sensing, GIS and Resource Mapping", at Kerala State Forest Research Institute, PEECHI, Thrissur, Kerala	01
	16.09.2019 to 28.09.2019	Refresher Course in Geography UGC- HRDC Jawaharlal Nehru University, Delhi	01
	30.10.2019	Faculty Development Programme on Innovative Teaching Strategies Curriculam Development Cell, Nirmala College For Women, Red Fields, Coimbatore - 18	05
	2.12.2019 to 14.2.2019	Refresher Course in Geography UGC- HRDC,Rani Durgavati Viswavidyalaya, Jabalpur.	01
	4.12.2019 to 10.12.2019	Short term Course in MOOCS, E-Content & Open Educational Resources at UGC- HRDC Bharathiar University, Coimbatore.	01
	22.2.2020	Workshop on Revised guidelines for the Accreditation process of NAAC, Internal Quality Assurance Cell, Nirmala College for Women, Red Fields, Coimbatore - 18	01

7. List of exhibition/seminars/training courses conducted by the college:

Department	Date	Exhibition, Seminars, Training	No. of Participants
Mathematics	05.12.2019	National Seminar- A New Cognitive approach to real life problems via Mathematics	280
	12.12.2019	Hands on training- R - Language	55
	17.12.2019	Hands on training- Data Analytics	30
	19.12.2019	Workshop- Data Analytics	44
	20.12.2019	Ramanujan's Day Celebrations - Inter Collegiate Competitions	105 outside students
	20.12.2019	Workshop- Advanced Excel	44

	07.01.2020	Workshop- Effective Power point Presentation	44
	08.01.2020	Certificate Course-Astronomy	50
	13.01.2020	Workshop- Latex	30
	23.01.2020	Ramanujan's Day celebrations- Inter School Competitions- MATH MANIA-2020	80
	27.02.2020	Symposium - Real Analysis	44
B.Sc (Computer Science), BCA, B.Sc(Information Technology)	11/12/2019 and 12/12/2019	**Two Day Hands on Training** Designer Tools	159
	10/01/2020 and 11/01/2020	**Two Day Hands on Training** Selenium Tool	130
	10/02/2020 to 13/02/2020	**Interdepartmental Competition**	45
	17/02/2020	**One Day Technical Seminar** Emerging Technologies in Bio-Informatics	154
	18/02/2020 and 19/02/2020	**Two Day Hands on Training** Workshop On Application Development	159
	20/02/2020	**One Day Technical Seminar** Computing in BioInformatics	129
	05/03/2020	**One Day Hands on Training** Tech Reality	52
	11.7.2019	Inter departmental Quiz and Poster presentation competitions to commemorate World Population Day - 2019	84
	07.09.20	National Symposium on "Applications of GIS and Remote Sensing in Geographical Studies and Research".	216
	14.10.20	International Video Conference on "Disaster Management for Beginners"	119

	06.01.20 to 08.01.20	Hands on training & workshop on advanced techniques in surveying- Total Station, DGPS & Drone Surveying.	39
	03.02.2020	Workshop for Staff members on "Bioenzymes: natural cleaners for a safe living place"	126

8. Name, designation, host institute of guest faculty invited:

Department	Date	Name and Designation of Resource Person	Topics
Mathematics	05.12.2019	1) Dr. Sunil Jacob John Associate Professor of Mathematics, NIT Calicut, Kerala 2) Dr. R. Murugesan Professor of Mathematics, REVA University, Bangalore 3) Dr. A. Antony Eldred Assistant Professor, Department of Mathematics, St. Joseph's College , Trichy	A New Cognitive approach to real life problems via Mathematics
	06.12.2019	Dr. R. Rajeswari, Associate Professor, Department of Computer Applications, Bharathiar University, Coimbatore.	Scilab
	12.12.2019	Dr. V. Vijayakumar, Professor and Controller of Examinations, Dept of Computer Science, Sri Ramakrishna College of arts and Science, Coimbatore.	R - Language
	17.12.2019	Dr.S.Lara Priyadharshini,Associate Professor of Management Studies,KV Institute of Management and Information Studies, Coimbatore.	Data Analytics

19.12.2019	Dr.V.Vijayakumar, Professor and Controller of Examinations, Dept of Computer Science, Sri Ramakrishna College of arts and Science,Coimbatore.	Data Analytics
20.12.2019	Prof.Dr.Anjali Devi Professor and Head(Retd) Department of Applied Mathematics,Bharathiar University,Coimbatore.	Inter Collegiate Competitions
20.12.2019	Mrs.Jansi Rani, Head and Asst. Prof of Information Technology, Nirmala College for Women,Coimbatore.	Advanced Excel
07.01.2020	Mrs.E.Sylvia, Head and Asst. Prof of Computer Applications, Nirmala College for Women,Coimbatore.	Effective Power point Presentation
08.01.2020	Mr. Kuppusamy, Physics Lab Instructor, Nirmala college for Women, Coimbatore.	Astronomy
13.01.2020	Dr.Suganya.S Asst.Prof of Statistics, PSG College,Coimbatore.	Latex
23.01.2020	Mr. Kuppusamy, Physics Lab Instructor, Nirmala College for Women, Coimbatore.	Quiz, Modeling, Connections
24.01.2020	Pasteur Institute, Coonoor and Dodabetta Tea Factory, Ooty.	
27.01.2020	Dr. Gnanambal Ilango, Asst. Prof of Mathematics, Govt. Arts College, Coimbatore.	Analytical Geometry

	27.02.2020	Mr. Gnanaprakasam Lecturer in Mathematics , Tamil Nadu Govt. Polytechnic College, Madurai.	Real Analysis
B.Sc (Computer Science), **BCA,** **B.Sc(Information** **Technology)**	06/12/2019	Ms. I. Mettilda Mary Assistant Professor Dept of Information Technology Sri Ramakrishna Engineering College Coimbatore.	Python Programming
	11/12/2019 to 12/12/2019	Ms. Rachel. S, Technical-Development Aakkam Industrial Training and Research Institute. Mr. Jeevanraj. R Technical-Development Aakkam Industrial Training and Research Institute.	DESIGNER TOOLS
	13/12/2019	Mrs. Geetha P, Business Analyst, ABE Semiconductor Designs, Coimbatore.	TECHNICAL CONTENT WRITING
	9/01/2020	Dr. Mrs. L. THARA, Assistant Professor, Department of Computer Science, PSG College of Arts and Science College, Coimbatore	BIG-DATA
	10/01/2020 and 11/01/2020	Mr. Nagendhran Mani, M.E, Senior Test Engineer from ACCENT TECHNOSOFT, Coimbatore.	SELENIUM TOOL
	14/01/2020 to 19/01/2020	Mrs. Vijaya, Android Developer VEE-EXPLORE Technologies Coimbatore.	ANDROID APP DEVELOPMENT

	05/02/2020	Dr. Mrs. Premalatha T, Assistant Professor, VLB Janakiammal College of Arts and Science, Coimbatore	IoT in day to day life
	07/02/2020	Mrs. Deepika P, Assistant Professor, PG and Research Department of Computer Science, Hindusthan College of arts and Science, Coimbatore.	IoT
	15/02/2020	Mrs.S.Priya, Test Lead, Impiger Technology, Coimbatore.	TESTING TOOLS
	17/02/2020	Dr. P. Lalitha, Professor, Department of Computer Applications, Hindusthan College of Arts & Science, Coimbatore. Dr. V. Kumutha, Department of Computer Science, Avinashilingam Institute for Home Science and Higher Education for Women. Mr. C. Stanly Felix, Assistant Professor, Department of Computing, Coimbatore Institute of Technology, Coimbatore.	Emerging Technologies in Bio-Informatics
	18/02/2020	Mrs. Laxmi Sree B.R, Assistant Professor, Department of Computer Science, Dr. G. R. Damodaran College of Arts & Science, Coimbatore.	Machine learning in Bioinformatics
	18/02/2020 & 19/02/2020	Mr. A. Ram Kumar, co-founder of Model Exam, Madurai.	Workshop on Application Development
	19/02/2020	Mr. Karthik .S, Assistant Professor, Department of Computer Science, PSG College of Arts & Science, Coimbatore.	Recent Trend in Information Technology

	20/02/2020	Dr. S. Sivashankari, Assistant Professor, Department of Bioinformatics, Nirmala College for Women, Coimbatore. Mr. Vibinchandar. S, Head-Training, Azurelt Solutions, Tamale, Ghana, West Africa. Dr. Antony Arul Raj. D, Associate Professor, Department of Software Systems PSG College of Arts & Science, Coimbatore.	Computing in BioInformatics
graphy	19.07.2019	Dr. Annalakshmi Narayanan, Professor, Dept of Psychology, Bharathiar University, Coimbatore.	An empowered women is powerful beyond measure
	07.09.2019	B. Sukumar Scientist F(Retired) National Centre for Earth Science Studies, Akkulam, Thiruvananthapuram, Kerala. Dr. Hari Krishnan Asst. 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, Coimbatore.	Applications of GIS and Remote Sensing in Geographical Studies and Research
	20.09.2019	Mr. Rajkumar & Dinesh Kumar Managing Director & Trainer KPR – IAS Academy Institute for IAS, IPS & IFS coaching, Coimbatore.	Cracking UPSC exams and Civil Service

	29.11.2019	Dr. S. K. Krishna Assistant Professor, Dept of Chemistry, Chikkaiah Naiker College, Erode.	Chemistry of food & Geography
	14.10.2019	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.	Disaster Management for Beginners
	6.1.2020 to 8.1.2020.	Dr. Arun Prasad Raja, Mr. Praveen, Mr. C. Selvaraj Managing Director & Survey and Field Assistants, Athira Geo- Spatial Services Pvt Ltd, Pallikaranai, Chennai.	Total Station , DGPS & Drone Surveying
	10.1.2020	Dr. Shijo Joseph Assistant Professor Dept of Remote Sensing & GIS Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi, Kerala.	Geo Information technology for Natural Resource management
	03.02.2020	Mrs. Chitra Raveendran & Ms. Akhila Volunteers Pranapoorna Collective, Coimbatore.	Bioenzymes: natural cleaners for a safe living place

MENTORS MEETING

Department	Date	Activity	Resource Person	Funded under
Mathematics	18.07.2019 and 19.03.2020	Mentor Meeting	Dr. R. Kala, Professor and Head, Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli.	DBT
Computer Science	09.01.2020	Mentor Meeting	Dr. P. Subashini, Professor, Department of Computer Science, Avinashilingam university, Coimbatore -43. Dr. S. Sivashankari, Assistant Professor, Department of Bioinformatics, Nirmala College for Women, Coimbatore-18.	DBT
Geography	31.8.2918	Mentor meeting	Mr.Tamilarasan.V Associate Professor Department of Geography Govt.Arts college, Karur.	DBT
	29.02.2020	Mentor meeting	Mr.Tamilarasan.V Associate Professor Department of Geography Govt.Arts College, Karur.	DBT

9. Date of Advisory committee meeting   : Nil

10. List of new practical/demonstrations introduced in different departments in last one year:

Department	Class	List of new Practical Introduced
Mathematics		Nil
B.Sc (Computer Science), **BCA,** **B.Sc (Information Technology)**	II Year	**Skill Based Elective I:** Assembly Language & Bio Python Programming Lab 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.
	III Year	**Skill Based Elective III:** Case Tools And BioPerl Lab 1. Write a Bioperl program to retrieve a protein sequence in fasta format from Swissprot database. 2. Write a Bioperl program to retrieve a nucleotide sequence from Genbank database 3. Write a Bioperl program to translate a DNA sequence from Genbank to a protein sequence.
Geography	III Year-Survey	1. GPS Survey and Mapping.

12. Details of equipment purchased in each department from DBT grant.

    Only recurring grant provided

12a. Non Recurring Expenditure (2019-20):   Nil

12b. Recurring Expenditure

Department	Date	Recurring grant	Amount (Rs.)
Mathematics	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- Real Analysis	7187
		Grand Total	**2,00,000**
Computer Science	27/11/2019 to 29/11/2019	**Faculty Development Programme** -Web Application Development and Deployment using Spring Framework	26650.00
	06/12/2019	**Guest Lecture** -Python Programming	2044.00
	11/12/2019 and 12/12/2019	**Two Day Hands on Training -** Designer Tools	17852.00
	13/12/2019	**Guest Lecture -** Technical Content Writing	1516.00
	19/01/2020	**Guest Lecture -** Big-Data	2102.00
	10/01/2020 and 11/01/2020	**Two Day Hands on Training -** Selenium Tool	16073.00
	14/01/2020 to 19/01/2020	**Six day Winter Training Programme -** Android App Development	20000.00
	05/02/2020	**Guest Lecture -** IoT in day to day life	2300.00
	07/02/2020	**Guest Lecture -**IoT	2300.00

	10/02/2020 to 13/02/2020	**Interdepartmental Competition**	9640.00
	15/02/2020	**Guest Lecture** -Testing Tools	2300.00
	17/02/2020	**One Day Technical Seminar-** Emerging Technologies in Bio-Informatics	11250.00
	18/02/2020	**Guest Lecture -** Machine learning in Bioinformatics	2231.00
	18/02/2020 and 19/02/2020	**Two Day Hands on Training-** Workshop On Application Development	12395.00
	19/02/2020	**Guest Lecture -** Recent Trend in Information Technology	2300.00
	20/02/2020	**One Day Technical Meet -** Computing in BioInformatics	10540.00
	22/02/2020	**Industrial Visit -** Biozone Research Technologies Pvt Ltd , chennai	15000.00
	03/03/2020	**Project Training**	15000.00
	05/03/2020	**One Day Hands on Training -** Tech Reality	25507.00
	05/03/2020	**Books Purchased**	3000.00
		Grand Total	**2,00,000**
Geography	29.11.2019	**Guest Lecture** on "Chemistry of food & Geography"	5000
	3.12.2019 to 5.12.2019	**Internship** for students @ Integrated Rural Technology Centre, Palakkad.	15000
	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 **Workshop** on DGPS **Workshop** on drone survey	72000
	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
		Prize for **Interdepartmental Poster**	4000

	27.01.2020	**Design & Quiz** competition to commemorate World Population Day - 2019		
	03.02.2020	**Workshop** on Bio Enzymes for Staff Members		5700
	28.02.2020	**Student project**-printing and binding		6250
		TOTAL		**2,00,000**

11. Details of books & journals subscribed from DBT grant:

Department	List of Books	No Of Copies	List of Journals
Mathematics	1.Optimization Models using Fuzzy sets and Possibility theory-Kacprzyk.	1	1. Bulletin of the Calcutta Math. Soc.
	2.Solving Complex Maintenance planning Optimization Problems-Tahvili.	1	2. Indian Journal of Mathematics
	3.R in Action - Kabacoff	5	3. Proceedings of Mathematical Sciences.
	4.Linear Algebra- Lipschultz	1	4. Int.Journal of Acta Ciencia Indica.
	5. Advanced Engineering Mathematics – Jain	1	5. Bulletin Int Res. Journal of Mathematics and Statistics.
	6. First Course in Mathematical Analysis-Somasundram	2	6. Opsearch
	7. Foundations of Complex Analysis- Ponnusamy	2	7.Mathematics Today
	8. Differential Equations – Ross	1	8.Indian Journal of Pure and Applied Mathematics
	9. Introduction to Real Analysis- Bartley	1	9.Mathematics Education

	10. Mathematics for B.Sc Branch I – Kandasamy	1	-
Computer Science	Artificial Intelligence	1	1. Journal of Computer Science
	Machine Learning (In Python and R)Dummies	1	2. INFAI Journal Computer Science
	Applied Machine Learning	1	3. Journal of Image Processing & Pattern Recognition Progress
	Fundamentals of Python	1	4. International Journal of Applied Research on Information Technology & Computing
	Intelligent Data Mining	1	5. Asian Journal of Computer Science Technology
	---	---	6. Journal on Information Technology.
	---	---	**7.** Journal of Networking Technology.
	---	---	8. Journal of Information Security Research
	---	---	9. Journal of Intelligent Computing.
	---	---	10. Journal of Multimedia Processing and Technologies.

		---	---	11. Journal of Web Applications
	Atmosphere, Weather and Climate 9/e (Indian Rep.2018)	2	
	Human Geography (2012)	2	
	Modern Cartography (2010)	2	
	Essentials of Hydrogeology (2009)	2	
	Geography of Urban Settlement (2015)	2	
	Encyclopaedia of Natural Disasters (2010)	2	
	The Survey Methods Workbook (2014)	2	
	An Introduction to Political Geography (Indian Rep 2019)	2	
	Disaster,Vulnerability and Rehabilitiation (2019)	1	
	Introducing Physical Geography, 6/e Indian reprint	2	
	Fundamentals of Cartography Revised and Enlarged 2/e (2014)	1	
Geography	Disater Management (2016)	1	**Nil**
	Geography of Settlements (Rep. 2014)	1	
	The Atmosphere:An Introduction to Meteorology (2015) 12/e	1	
	Mapping and Compilation: Methods and Techniques (Rep. 2009)	1	
	Enviro- Challenge 2/e (2012)	1	
	Urbanisation in India: Challenges, Opportunities and the way forward (2014)	1	
	The Study of Urban Geography 4/e Rep.2010	2	
	Geography of Population: Concepts, Determinants and Patterns (12 /e Rep.2019)	1	
	Essentials of Human Geography(2015)	1	
	Political Geography (2015)	1	

11. Qualitative improvements due to DBT support Please highlight (5 salient lines):

Mathematics	1. Certificate Course in Astronomy has been introduced for the students of Physics, Mathematics (SF) and Mathematics (aided). 2. Emphasis was given on Data Analytics for the III B. Sc and II B.Sc Mathematics students as it is the need of the hour. 3. A training programme in R Language was organized for II B.Sc to enhance the creativity of our students made them do real time projects. 4. SCILAB was taught to II B.Sc students which was very useful for them. 5. Symposium on Real Analysis was very useful for III B.Sc students which helped them even stronger in their basic mathematical concepts.

Computer Science	1. Students have published papers in their in medical research areas.
	2. DBT fund has supported the department for organizing winter Program Training. The following App is developed by our students.
	   a. Plant search
	   b. College phone book
	3. Students had exposure to "Molecular docking" in their Industrial visit.
	4. In Artificial Intelligence week various students of all streams participated in the Competitions by which they developed their interest and work on it.
	5. One day Intercollegiate Workshop brought out the young minds to think and work on virtual reality, extended reality and augmented reality.

Geography	• The funding has enabled the department to carry out an effective extension program for adopted village schools. • DBT fund has supported the department for organizing national level Symposium and workshop/hands on training for students in recent techniques and software of Geography. • The funding has enabled the department to organize several guest lectures and field trips which expose students to a whole range of issues related to geography.

12. Problems faced, if any, in implantation of the programme and utilization of DBT grant:

Mathematics	Nil
Computer Science	Nil
Geography	Summer training and workshops were not available for both students and staff related to the subject both locally and at the appropriate timing. • Delay in receiving funds restricted us from organizing many more activities. If the fund was released in the beginning of the year it would have been easier to effectively use the amount for variety of programs useful for students.

13. Awards and Achievements :

Department	Name	Award Received
Mathematics	1. P.Tweena Evangelin M.Jone Swedha - II B.Sc Mathematics	Math Modeling - Third Prize
	2. P.Tweena Evangelin J.Diana Merlin - II B.Sc Mathematics	Math Modeling - First Prize
	3. M.Jone Swedha - II B.Sc Mathematics	Solo Song - Third Prize
	4. J.Diana Merlin A.M.Ayisha Fenoon - II B.Sc Mathematics	Mehandi - Second Prize
	5. P.Tweena Evangelin A.M.Ayisha Fenoon - II B.Sc Mathematics	Math Doodle - Second Prize
	6. K.Infanta Nancy -II B.Sc Mathematics	Dance - First Prize
	7. Pharsana Parveen -II B.Sc Mathematics	Math Scribbling - Second Prize
	8. A.Arockia Preethi -II B.Sc Mathematics	Tamil Speech - First Prize
	9. V.Celsia - II B.Sc Mathematics	Tamil Poetry - First Prize
	10.M.Dayana Juliet S.Madhumitha - II B.Sc Mathematics	Group dance - Second Prize
	11.Pharsana Parveen -II B.Sc Mathematics	Variety Entertainment Second Prize
	12.Pharsana Parveen -II B.Sc Mathematics	Tamil Speech - Fifth Prize

	13.Iswariya
	   Merlin Swetha
	   -I M.Sc Mathematics
		Tamil Speech - First Prize

	14.Lana Leanus
	   Jenifer Christina C.M
	   -I B.Sc Mathematics
		Math Scribbling - First Prize

	15.Lana Leanus
	   Jenifer Christina C.M
	   -I B.Sc Mathematics
		Math Puzzle - Second Prize

	16.K.Anandhi -II B.Sc Mathematics	Math Quiz - Second Prize
	17.K.Anandhi -II B.Sc Mathematics	Cross Country - First Prize
B.Sc (Computer Science), BCA, B.Sc(Information Technology)	1. Greta Romy.E (III B.Sc Comp.sc)	Article Writing - I Prize – Rs 1000 Slogan Writing - III Prize – Rs 500
	2 G.Sangamithra (III B.Sc Comp.sc)	Model designing - III Prize –Rs 500
	1. Kalaiselvi.R (II BCA) 2. Merlin Mancy .A(II BCA)	Creative Designing - I Prize – Trophy

	1. Amin Femina .V
	   (III B.Sc IT)
	2. Nifana .N
	   (III B.Sc IT)
		Paper Presentation in
		Bio Informatics
		III Prize – Cash Award of Rs.500

	1. Vinni Sabatini .D 2. Abisha Pushpalatha .P	Web Designing I prize – Cash Award of Rs. 750
	1. R.Mariya (II B.Sc IT) 2. V.Suvetha(II B.Sc IT) 3. M.Aswathi (II B.Sc IT) 4. Rosa Deborah(II B.Sc IT) 5. M.Mini(II B.Sc IT)	Marketing I prize
	1. M.Reshma (II B.Sc IT) 2. B.Sofiya (II B.Sc IT)	Quiz I Prize – Trophy
Geography	Priyanka Devi M, III B.Sc	Third prize in the state level talent test conducted by Indian Geographical society this year**.**
	Priyadarshini M, III B**.**Sc.	Published a Tamil book titled "Anthimazhai", a collection of Tamil Poems which was released on the eve of College day.
	Gayathri Preetha S, II B.Sc.	National Integration camp organized by NSS held at Idukki, Kerala.

INNOVATIVE ACTIVITIES

DEARTMENT	DATE	TOPIC	RESOURCE PERSON	EVENT
MATHEMATICS	12.12.2019	Hands on training cum Project work on R Language	Dr.V.Vijayakumar Prof & Controller of Examinations Computer science Sri Ramakrishna College of Arts & Science Coimbatore	55
	08.01.2020	Certificate course on Astronomy	Mr.Kuppusamy Senior technical officer (Retd) Indian Institute of Astro Physics	38
COMPUTER SCIENCE	22.03.2018	Multimedia	1)Mr.Muthaiya Sellamuthu, Web designer, Accent Technosoft, Coimbatore. 2) Mr.Santhosh Kumar, Business Development Manager, Accent Technosoft, Coimbatore.	Intercollegiate Faculty Development Programme
	5/03/2020	Tech Reality	Mr. Aravind Rajendran, Director, Woow Reality,Coimbatore	Intercollegiate Hands on training
	10/02/2020 to 13/02/2020	Artificial Intelligence in Healthcare and Bio Informatics	-	Interdepartment al Competition
GEOGRAPHY	06.01.2020	3 days Hands on training in advanced Survey Techniques Advanced Survey technique: Campus survey By Total Station, DGPS, and DRONE	Dr. Arun Prasad Raja Mr. Praveen Mr.C. Selvaraj	39 students of III B.Sc. Geography

	03.02.2020	Awareness workshop for Faculty "Bioenzymes : natural cleaners for a safe living place"	Mrs.Chitra Raveendran & Ms.Akhila	126 staff members

INNOVATIVE ACTIVITIES

DEPARTMENT	DATE	TOPIC	RESOURCE PERSON	EVENT
MATHEMATICS	13.02.2018	Hands on training in signal and Image processing using MATLAB	Mr.S.Thiyarajan, Operations Head, Institute of Multimedia Arts and Graphic Effects, Coimbatore	Group Project
	12.12.2019	Hands on training cum Project work on R Language	Dr.V.Vijayakumar Prof & Controller of Examinations Computer science Sri Ramakrishna College of Arts & Science Coimbatore	Group Project
	8.01.2020	Certificate course on Astronomy	Mr.Kuppusamy Senior technical officer (Retd) Indian Institute of Astro Physics.	Inter-department Certificate course
Computer Science	22.03.2018	Multimedia	1)Mr.Muthaiya Sellamuthu, Web designer, Accent Technosoft, Coimbatore. 2)Mr.Santhosh Kumar, Business Development Manager, Accent Technosoft, Coimbatore.	Intercollegiate Faculty Development Programme
	5/03/2020	Tech Reality	Mr. Aravind Rajendran, Director, Woow Reality,Coimbatore	Intercollegiate Hands on training

	10/02/2020 to 13/02/2020	Artificial Intelligence in Healthcare and Bio Informatics	-	Interdepartmental Competition
GEOGRAPHY	06.01.2020	3 days Hands on training in advanced Survey Techniques Advanced Survey technique: Campus survey By Total Station, DGPS, and DRONE	Dr. Arun Prasad Raja Mr. Praveen Mr.C. Selvaraj	39 students of III B.Sc. Geography
	03.02.2020	Awareness workshop for Faculty "Bioenzymes: natural cleaners for a safe living place"	Mrs.Chitra Raveendran & Ms.Akhila	126 staff members

Student's achievements

Department	Date	Name of the student & class	Achievement	Organizing committee
Geography	15.6.2019 to 24.6.2019	Nandhini R II.B.Sc. Geography	Combined Annual Training Camp & IGC-TSC Training Camp	SNS College of Technology, Coimbatore
	4.6.2019 to 13.6.2019	Nandhini R II.B.Sc. Geography	CATC/ TSC	KSR College of Engineering, Tiruchengode
	7.9.2019 to 16.9.2019	Nandhini R II.B.Sc. Geography	CATC	Sree Narayana Guru College, Coimbatore
	27.11.2019	13 students of II.B.Sc. Geography	Successfully Completed and received Certificate for Online Spoken	IIT Bombay

			Tutorial on Libre Office Suit Impress	
		18 students of I.B.Sc. Geography	Successfully Completed and received Certificate for Online Spoken Tutorial on Libre Office Suit Writer	IIT Bombay
	21.10.2020	Sindhumathi R II.B.Sc. Geography	Second Prize in Poster Design Competition	Health & Social Welfare Department, Coimbatore District.
	29.09.19	2 students of III.B.Sc. Geography	Successfully Completed and received Certificate for Online Course on Geography of India	MHRD, SWAYAM UGC- CEC & University of Mysore
	21.10.2020	Sindhumathi R II.B.Sc. Geography	Second Prize in Poster Design Competition	Health & Social Welfare Department, Coimbatore District.
Computer Science, Computer Applications, Information Technology	5.10.2019	Haleemuthu Sahadiya.M II BCA	Enhanced E-Shopping Using K-Clustering Techniques	International conference on E-commerce SNMV College of Arts and Science Coimbatore
	5.10.2019	Sharon Nisha.A II BCA	Enhanced E-Shopping Using K-Clustering Techniques	International conference on E-commerce SNMV College of Arts and Science Coimbatore

	5.10.2019	1. Kalaiselvi.R (II BCA) 2. Reetha.E (II BCA)	Cloud Computing	Presented in Intercollegiate Competition at Sri Ramakrishna College of Arts & Science
	5.10.2019	1. Merlin Mancy.A (II BCA) 2. Haleemuthu Sahadiya.M (II BCA)	Artificial Intelligence	Presented in Intercollegiate Competition at Sri Ramakrishna College of Arts & Science
	5.10.2019	1.Amirtha.G- (II BCA) 2.Rithanya.B (II BCA)	Review on Area Of Cyber Crime and Preventing The Cyber Theft	Presented in Intercollegiate Competition at Sri Ramakrishna College of Arts & Science
	18. 07.2019	R.Mariya (II B.Sc IT) V.Suvetha (II B.Sc IT) M.Aswathi (II B.Sc IT) Rosa Deborah (II B.Sc IT) M.Mini (II B.Sc IT)	Marketing first prize	Department of Computer Science, Bishop Ambrose College of Arts and Science. Coimbatore.
	30.08.2019	M.Reshma (II B.Sc IT) B.Sofiya (II B.Sc IT)	Quiz first prize	KGISL Institute of Information Management, Coimbatore

PUBLICATION BY THE FACULTY FOR THE YEAR 2019-2020

Department	Month	Name of the faculty	Topic	Journal	Impact factor
Geography	October 2019	Dr. Meenakshi P.	Assessment of Groundwater Vulnerability to Contamination in Coimbatore District Using SI Method.	Thematic Journal of Geography	-
	October 2019	A.Franchina Mary	A Geographical study of dynamics of land use pattern of Coimbatore city using Remote Sensing and GIS	Thematic Journal of Geography	5.25
	November 2019	Dr.Jyothirmayi P	A temporal Analysis of land use change in Vazhapady Taluk,Tamilnadu ,India	Nirmala Annual research congress Pp542-549 ISBN 978-93-5391-196-6	-
	November 2019	Helan Jenifer S.	A temporal analysis of maximum, minimum and mean temperature trends in AndraPradesh	Nirmala Annual research congress Pp561-567-284 ISBN 978-93-5391-196-6	-
	January 2019	Dr.Jyothirmayi P.	Innovative Learning Approaches in Geography	IQAC proceeding. Pp 21-27. ISBN: 978-93-5391-892-7	-
	In Press	Sreelakshmy M	Applications of geospatial techniques in delineation of groundwater potential zones of Vannathangarai watershed of Noyyal river basin, Tamil Nadu, India	Indian Journal of Geography and Environment (UGC care list Journal)	-

	In Press	Sreelakshmy M	Analysis of Land use/ Land Cover and Change Detection using Remote Sensing and GIS: A case study.	Journal of Advanced Scientific Research (UGC care list Journal)	-
Mathematics	Dec 2019	U.Mary	On molecular descriptors with python of 3D fullerene	International journal of analytical and experimental modal analysis International (UGC –care A) Vol 11, Issue 12 ISSN No. 0886-9367	6.3
	Nov 2019	U.Mary	A study on the compution of Gourava indices for poly –I- lysine dendrimer and its biomedical application Pg.no.233-239	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
	Oct 2019	A.Arokia Lancy	A vague set Application on the region-wise seasonal rainfall in India Pg.No. 198-211	International Journal of Analytical and Experimental Model Analysis International (UGC –care A) Vol 11, Iss 10 ISSN No. 0886-9367	6.3
	Dec 2019	A.Arokia Lancy	Contra continuous function in Vague bitipological spaces Pg.No. 1405-1411	Journal of Information and Computational Science International (UGC –care A) Vol 9, Iss 12 ISSN No. 1548-7741	6.2

		Oct 2019	U.Mary	Computation of Zagreb indices of Cationic dendrimer Pg.no.855-864	Journal of Information and Computational Science International (UGC –care A) Vol 9, Iss 10 ISSN No. 1548-7741	6.2
		Oct 2019	A.Arokia Lancy	On johan chromatic core subgraph of splitting graph of star, star related graphs and their product graphs Pg.no. 754-757	Infokara International (UGC –care A) Vol 8, Iss 10 ISSN No. 1021-9056	5.3
		Oct 2019	A.ArokiaLancy	On johan chromatic core subgraph of splitting graph of cycle related graphs and their product graphs Pg.no. 2962-2965	International Journal of Analytical and Experimental Model Analysis International (UGC –care A) Vol 11, Iss 10 ISSN No. 0886-9367	6.3
		Oct 2019	A.Francina Shalini	Neutrosophic Vague binary soft sets	Neutrosophic sets and system International (UGC –care A) Vol 29 ISSN No. 2331-6055	-
		Oct 2019	M.Trinita Pricilla	An application of neutrosophic vague max-min composition technique Pg.no 5586-5589	International journal of engineering and advanced technology International (UGC –care A & Scopus) Vol 9, Iss 1 ISSN No. 2249-8958	5.97

	Dec 2019	K.Mohana	Correlation Measures for Pythagorean Neutrosophic Sets with T and F are neutrosophic dependent components	Neutrosophic sets and system International (UGC –care A) Vol 30 ISSN No. 2331-6055	-
	Oct 2019	K.Mohana	An introduction to Spherical fuzzy topological spaces	International journal of innovative Research in technology International Vol 6, Iss 5 ISSN No. 2349-6002	-
	Oct 2019	K.Mohana	An introduction to Neutrosophic Bipolar Vague topological spaces	Neutrosophic Sets and system International (UGC Care A & Scopus) Vol 29	-
	Oct 2019	K.Mohana	Vector Similarity Measures of Spherical fuzzy sets and their application in Multi-criteria decision making	Infokara International (UGC Care A) Vol 8, Iss 10National ISBN 978-93-5391-196-6. ISSN No. 1021-9056	5.3
	Mar 2019	K.Mohana	Some Geometric Aggregation Operators Based On Bipolar Picture Fuzzy Sets on Their Application in Multiple Attribute decision Making	International Journal of Research and Analytical Reviews International Vol 6, Iss 1 . ISSN No. 2349-5138	5.75
	Nov 2019	K.Mohana	Bipolar picture fuzzy BG-subalgebra	Nirmala Annual Research Congress	-

			Pg.no.111-117	ISBN 978-93-5391-196-6	
	Nov 2019	K.Mohana	Quadripartioinedint ervaluedneutrosoph ic rough sets Pg.no.134-141	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	
	Nov 2019	A.FrancinaShalini	Trignometric normalized hamming similarity measure between vague binary soft sets Pg.no.151-156	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
	Nov 2019	A.Arokia Lancy	Vague soft completely continuous functions in vague soft topological spaces Pg.no.164-168	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
	Nov 2019	K.Julia Rose Mary	Analysis of M\M\I fluid model queuing with working vacations Pg.no.130-133	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
	Nov 2019	U.Mary	Color energy of butterfly graph and paw graph Pg.no.169-171	Nirmala Annual Research Congress	-
	Nov 2019	U.Mary	Some degree based topological indices of poly – I-Iysine(pll) dendrimer Pg.no.172-177	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
	Nov 2019	U.Mary	Neighbourhood topological indices of dendrimernanostar Pg.no.178-182	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
	Nov 2019	K.Mohana	Bipolar Pythagorean fuzzy frank aggregation operation Pg.no.183-188	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-

Nov 2019	A.Arokia Lancy	On $\tau_1\tau_2$- semi connectedness and $\tau_1\tau_2$ semi compactness in vague bitopological spaces Pg.no.197-200	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
Nov 2019	M.Trinita Pricilla	Vague almost pi-generalised semi closed mappings in vague topological spaces Pg.no.201-204	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
Nov 2019	K.Mohana	Some similarity measures of spherical sets based on Euclidean distance and their application in medical diagnosis Pg.no.225-232	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
Nov 2019	M.Trinita Pricilla	Neutrosophicnanog b-continuous function in neutrosohicnano topological spaces Pg.no.205-210	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
Nov 2019	U.Mary	On hardy colouring of sunlet graph and helm graph Pg.no.240-243	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
Nov 2019	U.Mary	Johan colouring on Cartesian product of splitting graphs Pg.no.244-247	Nirmala Annual Research Congress ISBN 978-93-5391-196-6	-
Nov 2019	A.ArokiaLancy	Johan colouring on Cartesian product of splitting graphs Pg.no.244-247	Nirmala Annual Research Congress	-
November 2019	A.Francina Shalini	Correlation Coefficient using Pythagorean Picture Fuzzy sets. Pg.No.:105-111	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-

November 2019	A.Sahaya Sudha	A comparative Study on Symmetric Trapezoidal Fuzzy Numbers. Pg.No.:118-123	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-
November 2019	K . Mohana	An Application of Single-valued Neutrosophic Under sets in Medical Diagnosis. Pg.No.:124-129	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-
November 2019	F. Nirmala Irudayam	Intuitionistic Fuzzy orbit* Continuous mapping. Pg.No.:218-224	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-
November 2019	F. Nirmala Irudayam	On Neutrosophic b+ open sets and b+ closed sets in Simple extended Neutrosophic Topology. Pg.No.:211-217	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-
November 2019	F. Nirmala Irudayam	On Generalized b+ closed sets in Vague Topological Space. Pg.No.:142-146	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-
November 2019	A.Francina Shalini	Neutrosophic Vague Generalized β Closed sets in Neutrosophic Vague Topological Spaces. Pg.No.:157-164	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-
November 2019	F. Nirmala Irudayam	Pythagorean Neutrosophic Topological Spaces. Pg.No.:189-196	Nirmala Annual research Congress ISBN 978-93-5391-196-6	-
Jan 2020	K.Mohana	Bipolar Pythagorean fuzzy π generalized pre	International Journal of Analytical and	6.3

			closed sets in topological spaces Pg.No 164-171	Experimental Model Analysis International (UGC –care A) Vol 12, Iss 1 ISSN No. 0886-9367	
	Jan 2020	A.Francina Shalini	Vague binary soft topological spaces	Compliance Engineering Journals International (UGC –care A) Vol 11, Iss 1	6.2
	Jan 2020	Sr. A. Stanis Arul Mary	Geo Chromatic number for certain Cartesian product of graphs	International Journal of Mathematics Trends and Technology (IJMTT) Vol 66, Issue 1, Jan 2020	-
Computer Science, Computer Applications & Information Technology	June 2019	E.Sylvia	Intelligence in E-Commerce Business to Improvising the Global Market	The International Journal Of Research and Analytical Reviews (IJRAR)	**5.75**
	June 2019	Dr. Ms.S.Beula Princy	Enhanced E-Shopping Using K-Means Clustering Techniques	The International Journal Of Research and Analytical Reviews (IJRAR) ISSN 2349-5138	**5.75**
	September 2019	S.Maria Sylviaa	Outlier Detection a study	The International Journal Of computer science and communication	**5.0**

	October 2019	M.Muthumalathi	Review on Information of Telemetry System For Industrial Applications in Wireless Sensor Networks	The International Journal Of Analytical and Experimental Model Analysis	**6.3**
	October 2019	K.Sindhya	A study of data mining classification algorithms in various disease prediction	EPRA International Journal of Research and Development (IJRD)	**6.260**
	January 2020	Dr.K.Gayathri	Text Categorization Based on the relative amount or word Frequency in each classification	The International Journal Of Analytical And Experimental Modal Analysis(IJAE MA)	**6.3**
	January 2020	S.Kulandai Teresa	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(IJAE MA)	**6.3**
	January 2020	C. Clement Sherlin	A Comparison Clustering Techniques With Informative Genes For High Dimensional Data	The International journal of analytical and experimental modal analysis	**6.3**
	January 2020	R.Ushadevi	Impact Of Social Media on Youth In The Digitized Era	The International Journal Of Analytical And Experimental Modal	**6.3**

				Analysis(IJAE MA)	
	February 2020	K.Sindhya	Effective Prediction Of Hypothyroid Using Various Data Mining Techniques	EPRA International Journal of Research & Development (IJRD)	**6.260**

BOOKS PUBLISHED

	Month and Year	**Name of the Staff**	**Book Title**	**IBBN/ISSN**
Computer Science, **Computer Applications,** **Information Technology**	Jan 2020	Mrs.A.Jansi Rani	Enrich on python skills	B084562SDC
	Jan 2020	E.Sylvia	Enrich on python skills	B084562SDC
	Jan 2020	Mrs.A.Jansi Rani	MCQ in Multimedia	B081DW65ZF

PAPER PRESENTATION BY THE FACULTY

Department	Date	Name of the faculty	Topic	Category	Organizing Committee
Geography	03.05.2019 to 04.05.2019	Ms.Sreelakshmy M	Identification of Ground water potential zones for sustainable development in Vannathangarai Watershed of Cauvery River basin using Geospatial Techniques	International Conference in Emerging Trends in Science and Social Science	Institute For Integrated Regenerative Medicine, Malaysia and V.H.N Senthilkumara Nadar College, Viruthunagar & Venue:

					Kuala Lumpur, Malaysia.
28.12.2019 to 30.12.2019	Ms.Sreelakshmy M.	Analysis of Rainfall variability trend using GIS in Vannathangarai Watershed of Noyyil river basin of TamilNadu for Sustainable management of water resources	National		National Association of Geographers – India and Dr. H.S.Gour Vishwa Vidhyalaya, Sagar, Madhya Pradesh
27.11.2019	Helan Jenifer S.	A temporal analysis of maximum, minimum and mean temperature trends in AndraPradesh	National		Internal Quality Assurance Cell, Nirmala Annual Research Congress(NARC – 2019), Red Fields, Coimbatore - 18
27.11.2019	Dr.Jyothirmayi P	A temporal Analysis of land use change in Vazhapady Taluk,Tamilnadu ,India	National		Internal Quality Assurance Cell, Nirmala Annual Research Congress(NARC – 2019), Red Fields, Coimbatore - 18

	9.01.2020 & 10.01.2020	Dr.Jyothirmayi P.	Innovative Learning Approaches in Geography	National	National Assessment and Accreditation Council (NAAC – 2019), Red Fields, Coimbatore 18