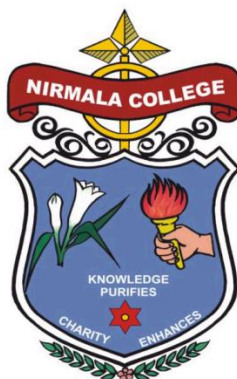


**PROGRESS REPORT BY COLLEGES
SUPPORTED UNDER THE STAR COLLEGE SCHEME**

(BT/HRD/11/019/2012)

(2020 – 2021)

**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 2021



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 **Autonomous 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 also 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 THE PROGRESS REPORT (2020-21)

1. **Name of the College** : Nirmala College for Women, Coimbatore

2. **Name of Departments supported** : Zoology, Botany and Chemistry

Name of Coordinator : Dr.Pawlin Vasanthi Joseph

Designation : Associate Professor and Head

Address : Department of Zoology
Nirmala College for Women (Autonomous),
Red fields, Coimbatore

Phone number. : +91 9655513364

3. Number of regular faculty

Department	No. of regular faculty	With PhD	With M. Phil
Zoology	9	9	-
Botany	9	9	-
Chemistry	9	6	3

4. List of courses (B.Sc./M.Sc./ PG diploma, certificate etc) run by different participating Departments:

Department	Courses offered
Zoology	B.Sc., Zoology (Aided) M.Sc., Zoology (Self Financing) M. Phil Zoology Ph. D Zoology COP in Vermitechnology – (UGC Funded) Certificate course Diploma course Advanced Diploma course
Botany	B.Sc., Botany (Aided) M.Sc., Botany (Self Financing) M.Phil Botany Ph.D Botany Innovative Course M.Sc. Bioinformatics-UGC Sponsored Floriculture and Bonsai- UGC – COP Medicinal Botany- UGC - COP

Chemistry	B.Sc., Chemistry (Aided) M.Sc., Chemistry (Self- Financing) M.Phil and Ph.D. (Self- Financing)
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5. Cut off % for admission in different courses in participating departments, positions in University, % result in 2020-21 academic sessions

Department	Total strength of students		Cut off Percentage for admission	Positions in University	% of results /Nov2020
Zoology	I-B.Sc	42	60% and Above	Autonomous	95%
	II-B.Sc	44			100%
	III-B.Sc	43			100%
Botany	I-B.Sc	25	60% and Above	Autonomous	90%
	II-B.Sc	33			98%
	III-B.Sc	42			96%
Chemistry	I B.Sc	29	60% and Above	Autonomous	89.29%
	II B.Sc	30			100%
	III B.Sc	32			96.77%

6a. List of projects undertaken by students, industrial visits by students, summer training in last one year:

Department	List of Projects (Topics)	No/. of Students (under the Project)
Zoology	Analysis of water quality parameters of two ponds and a river in the district of Mayurbhanj and Balasore, Odisha	4
	Management of Red flour beetle <i>Tribolium cataneum</i> (Herbst) (Coleoptera: Tenebrionidae) on stored raw rice using leaf powders of <i>Ocimum sanctum</i> and <i>Coleus aromaticus</i>	5
	Qualitative analysis of phytochemicals in selected seaweeds of Mandapam coast, Rameswaram, Tamilnadu, India.	4
	Efficacy of fish waste fertilizer on the growth and yield of Fenugreek, <i>Trigonella foenum-graecum</i>	5
	A preliminary study on plankton analysis in the selected wetland ecosystem of Coimbatore district.	4

	Vermicomposting of Cocoon waste using <i>Eisenia foetida</i> - A biochemical study	4
	Effect of vermicompost on antimicrobial activity of pathogenic microorganism.	4
	Comparative analysis of groundnut shell waste vermicompost and leaf litter vermicompost using the earthworm <i>Eisenia foetida</i>	5
	Effect of different animal organic manure on the biometric and nutrient parameter of <i>C.sativum</i>	4
	A comparative study on vermiwash and fish waste fertilizer on the growth and yield of mustard, <i>Brassica juncea</i>	
Botany	Preliminary phytochemical analysis and anticancerous studies of the medicinal plant <i>Bryophyllum pinnata</i> , (Lam.) Kurz.	5
	Campus-wide floristic diversity survey of tree species in Nirmala College for Women, Coimbatore, Tamilnadu.	5
	Effect of <i>Cassia auriculata</i> flowers on blood sugar level in Diabetic patients	5
	Survey of medicinal plants used for the treatment of diabetes in, Coimbatore District, Tamilnadu.	5
	Oil educing, Preliminary, Phytochemical investigation and natural remedies of <i>Allium sativum</i> L., (Garlic) Family Amarryllidaceae	2
	Influence of Pre-sowing seed treatments on germination pattern of breaking of seed dormancy in <i>Macrotyloma uniflorum</i> (Horse gram) <i>Cicer arietinum</i> (chick pea) and <i>Vigna radiata</i> (Green gram).	1
	Systematic studies and influence of maceration techniques on <i>Tecoma stans</i> .L	2
	Cost effective method for the production of biodegradable bioplastic from potato peels.	4
	Preliminary phytochemical studies on <i>Ocimum tenuiflorum</i> L., <i>Embllica officinalis</i> Gaertn and <i>Azadirachta indica</i> A.Juss	4
	Comparative Analysis of Herbal Finished Face Mask and Their Antimicrobial Activity.	4
	<i>Ruta graveolus</i> Linn – A promising drug for Dermatitis.	4
Chemistry	Synthesis, Spectral characterization and BSA binding studies of Ni(II) Quinoline based thiosemicarbazone complexes	2
	A comparative analysis of single solvent and successive maceration of <i>prunus dulcis</i> peel extract: Spectral Characterization and <i>in vitro</i> anti oxidant assays	2
	Influence of polymeric material as efficient corrosion inhibitor on mild steel in acidic medium	4
	A comparative study on the phytochemical screening of <i>Achyranthes aspera</i> , <i>Senna auriculata</i> and <i>Pergularia darmia</i>	3

	Synthesis and characterization of starch based bioplastic from <i>Cucurbita maxima</i>	1
	Assessment of iodine content in commercial edible salts by iodometric titration	4
	The effect of environmentally benign plant extracts on the corrosion inhibition of mild steel in acid medium.	4
	Green synthesis of Zinc Nanoparticles using <i>Ananas cosmosus</i> peel.	4
	Evaluation of phytochemical potential, antibacterial activity of <i>Rubus ellipticus</i> and <i>Rhodomytus tomentosa</i> plant extracts	4
	Detection of adulterants in branded food items by chemical method and survey report on consumer preference over selected brands in local region of Coimbatore	4

6b. INDUSTRIAL VISITS/ EXPOSURE VISITS BY THE STUDENTS

Department	Date	Industrial Visit	No/. of Students and Class
Zoology	01.03.2021	Virtual Lab tour to Rajiv Gandhi Centre for Biotechnology, Trivandrum	43
Botany	01.03.2021	Virtual Lab tour to Rajiv Gandhi centre for Biotechnology, Trivandrum	43
Chemistry	05.10.20	Merit Rubber Products, Coimbatore.	7 I B.Sc., II B.Sc., III B.Sc., Chemistry
	17.10.20	Merit Rubber Products, Coimbatore. (Virtual Industrial Visit)	93 I B.Sc., II B.Sc., III B.Sc., Chemistry
	07.11.20	Polymer Engineering Laboratory, PSG Institute of Technology, and Applied Research, Coimbatore.	13 I B.Sc. and III B.Sc. Chemistry
	01.03.2021	Virtual Lab tour to Rajiv Gandhi centre for Biotechnology, Trivandrum	30

6c. Summer training – Nil (Due to Lock down)

6d. Collaborative Program

Rajiv Gandhi Centre for Biotechnology: Inauguration of the Science Setu Program

1. Inauguration talk by Prof Chandrabhas Narayana, Director
2. Short Video on RGCB
3. Talk - "Green fluorescent protein: from discovery to application", Dr TR Santhosh kumar, Scientist 'G'
4. Talk - "What Covid taught us", Dr E Sreekumar, Scientist 'F'

Participants: Faculty - 27

Students - 116

7. Training received by faculty:

Department	Date	Training	No/. of faculty
Zoology	16.10.2020 and 17.10.2020	Implementation of Genomic & Proteomic Tools for Beginners- Dr.R. Prathiviraj, DST –SERB- NPDF, Department of Microbiology, Pondicherry University, Puducherry	1
	06.05.2020	Zoom training Program – Getting started with ZOOM, Zoom training team, USA	1
	25.05.2020	Training Programme on How to Balance Academics and Administrative work, Skillslate and Powered by Zovy Studios, Pune	1
	20.07.2020 to 27.07.2020	Four day soft skills online training program, Krautiguru Shyamji Krishna Verma Kachchh University	1
	19.05.2020 to 23.05.2020	Training Programme –Bee Keeping, Khadir Mohideen College, Adiramapattinam	2
Botany	5.05.2020 - 11.05.2020	Online course – Research Methodology GRABS - Educational charitable trust & Tamilnadu Association of intellectuals and Faculty, Chennai	1
	13.05.2020 - 14.05.2020	Online course on Personnel and Stress management Department of Commerce CA, Erode arts and science college, Erode	2
	19.05.2020 - 01.06.2020	MOOC course on MER- Management of Environment and its Resources Nesamany memorial Christian College	1
	03.08.2020 - 08.08.2020	National level online one week short term course on “Plant Taxonomy” Department of Botany, Nizam College, Osmania University, Hyderabad.	2

	03.08.2020 - 08.08.2020	AICTE sponsored Online Short – Term Training Programme (STTP) on “Entrepreneurship Development Programme Evaluation Committee, Department of Management, PSGR Krishnammal College for Women, Coimbatore	2
	01.09.2020 - 10.09.2020	Biodiversity - Status, Service & Management Practices. Department of Botany, Kongunadu Arts and Science College, Coimbatore – 29.	2
	08.05.2020	Enhancing Soft Skills ,Sri Krishna Adithya College of Arts and Science, Kovai Pudur	1
	18.5.2020 -20.5.2020	Three days online course on “ Genetic Disorder, Department of Biotechnology, Sri Kailash Women’s College, Salem	1
	19.05.2020 – 30.05. 2020	Course on Bee keeping, Program on Bioinformatics as Cartographic Tool In Drug Discovery Department of Bioinformatics, Alagappa University, Karaikudi.	2
Chemistry	25.04.2020	Corono Awareness Programme, Department of Microbiology, S.M.Joshi, College, Hadapsar, Pune	2
	01.05.2020	R Programming, Kaamadhenu Arts and Science College	1
	14.05.2020	Python 3.4.3, Sri Krishna College of Technology & IIT Bombay	2
	19.05.2020 to 30.05.2020	E Learning Program On Bioinformatics As Cartographic Tools In Drug Discovery, Department of Bioinformatics, Alagappa University, Karaikudi	1
	22.05.2020 23.05.2020	R Programming, Department of Maths (SF), Nirmala College for Women, Coimbatore	2
	25.05.2020	Online Demo Preparation Of Mystic Senitizer (Germ Cleansing), Department of Chemistry, Parvathy's Arts and Science College, Dindigul	1
	26.05.2020	E Learning Through Power point Presentation, PG and Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (A), Tiruchengode, Namakkal	4
	24.06.2020 & 25.06.2020	Digital Marketing Session For Teachers On Google Class Room And Microsoft Teams, North Storm Academy	2
	13.07.2020 to 17.07.2020	Phase I - 21 st Century Technology Skills Development For Teachers, District Institute of Education and Training DIET, Vadalur, Cuddalore District	4
	29.07.2020 to 02.07.2020	Phase II - On Technology Integrated Pedagogy For Government Aided School Teachers, District Institute of Education and Training DIET, Vadalur, Cuddalore District	1

Department	Date	Workshop	No/. of faculty
Zoology	23.05.2020	Building A Predictive Understanding of Microbial Communities	9
	13.05.20 to 14.05.20	Personal and Stress Management, Erode Arts and Science College, Erode	1
	28.04.2020	Online Course - Enhancing Soft Skills, Sri Krishna Adithya College of Arts & Science, Kovaipudur	1
	13.05.2020 to 15.05.2020	online course – Apiculture, Ayya Nadar Janakiammal College, Sivakasi	1
	18.05.2020 to 20.05.2020	Training Programme - Research Methodology for Sciences, Bharathidhasan University, Trichy	1
	19.05.2020 to 30.05.2020	E-Learning Programme: Bioinformatics as Cartographic Tool in Drug Discovery, Alagappa University Karaikudi	1
	01.06.2020 to 03.06.2020	Indo-UK virtual Conference on current innovations and the future of Therapeutics developments, Vellore Institute of Technology, Vellore	1
	05.05.2020 to 11.05.2020	Online course on Basic Principles of Spectroscopy, AVS College of Arts and Science, Salem	1
	17.06.2020 to 19.06.2020	Techniques in intensive production of marine copepods (TIPMAC-20202), Marine Planktonology & Aquaculture Laboratory, Department of Marine Sciences, Bharathidasan University, Tiruchirappalli-24	1
	26.05.2020	Technical Workshop on “Hyphenated Technique: GC-MS”, Dept. of 5 years Integrated course in Bioanalytical Sciences, Shiromani Gurudwara Prabandhak Committee’s, Guru Nanak Khalsa College of Arts, Science and Commerce, Matunga, Mumbai	2
	22.05.20	Virtual Workshop on “Patent Search and Analytics, IQAC, Shri Shankarlal Sundarbai Shasun Jain College for Women, in association with Turnip Innovations Pvt. Ltd., Mumbai	1
	26.06.2020	International Virtual Conference on - Novel Biotechnological Approaches to combat Emerging Diseases With Special Focus on SARS Associated	1

		Coronavirus Therapeutics, Presidency College (Autonomous), Chennai	
	07.01.21	Science Academies Virtual Lecture Workshop on Innovations and Relevance of Biotechnology	9
Chemistry	21.04.2020 to 30.04.2020	Workshop for Teachers Based on E – CONTENT, Universal Teachers' Academy, Puducherry, India	1
	25.04.2020	Fine Tuning Research Planning Using Elsevier Tools: Science Direct, Scopus and Mendeley, K.J.Somaiya College of Science and Commerce Mumbai	3
	14.05.2020 to 18.05.2020	Workshop for Teachers on ANIMATION , Universal Teachers' Academy, Puducherry, India	1
	19.05.2020 to 01.06.2020	Management of Environment and its Resources, Department of Chemistry and Research, Nesamony Memorial Christian College, Marthandam And St. Xaviers College, Palayamkottai	1
	20.05.2020	International Virtual Lecture Workshop, Department of Zoology, Kongunadu Arts and Science College, Coimbatore	1
	22.05.2020	Patent Search and Analytics, IQAC Shri Shankarlal Sundarbai SHASUN Jain College for Women, Chennai In Association with Turnip Innovations Pvt.Ltd, Mumbai	1
	23.05.2020	Skilled Based Workshop on Nuances of Software Handling in Chemical Sciences, PG and Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (A), Tiruchengode, Namakkal	2
	28.05.2020	Biomolecular Visualization Tools, Department of Botany and Bioinformatics, Nirmala College For Women, Coimbatore.	1
	17.06.2020 to 20.06.2020	E – Workshop on Solution To Joint CSIR – UGC NET Chemical Science Problems , PG & Research Department Of Chemistry, Muthurangam Government Arts College (Autonomous), Vellore,	1
	04.07.2020 to 10.07.2020	Materials Technology Advancement in Current Scenario – MTACS2020, Department of Physics, Sathyabama Institute of Science & Technology	2

10.07.2020	Google Classroom, Jayaraj Annapackiam CSI Polytechnic College, Margoschis Nagarm Nazareth	1
13.07.20 20 to 19.07.2020	Apiculture, Department of Zoology, Balwant College, Vita, Sangli (MS)	1
15.07.2020 to 21.07.2020	Environmental and Ecological Perspective in Current Scenario, Department of Chemistry, Commerce, Management, Balwant College Vita	1
17.07.2020 to 18.07.2020	Digital Tool for Teaching – A Glimpse, Department of Education, Bharathiar University, Coimbatore	1
28.09.2020 to 30.09.2020	Recent Trends in Materials Science, Department of Physics, Kongu Engineering College	1
09.10.2020 and 10.10.2020	Emerging Trends In Chemical Sciences, PG And Research Department of Chemistry, Kongunadu Arts and Science College, Coimbatore	1
24.10.2020 and 25.10.2020	Tools and Databases in Bioinformatics, Department of Botany and Bioinformatics, Nirmala College for Women, Coimbatore	1
28.12.2020 and 29.12.2020	Outcome Based Education (OBE) workshop on Outcome Attainments, Internal Quality Assurance Cell (IQAC), Nirmala College for Women, Coimbatore – 18 under PARAMARSH scheme	8
22.01.2021	How to Prepare Your Institution towards the Accreditation Process, IQAC, Nirmala College for Women, Coimbatore	1
12.02.2021	Assessment and Accrediation Process of NAAC , the Do & Dont 's, IQAC, (PARAMARSH SCHEME) Nirmala College for Women, Coimbatore	1
22.02.2021	National Workshop on ICT Tools for Chemistry Teachers, Guru Angad Dev Teaching Learning Centre of Ministry of Education, SGTB KHALSA College, University of Delhi	1

Department	Date	Orientation Program	No/. of faculty
Chemistry	06.05.2020	New Engineering Materials ,Department of Science and Humanities. Er. Perumal Manimekalai College of Engineering, Hosur	1
Department	Date	Refresher Course	No/. of faculty
Zoology	17.11.2020 to 02.12.2020	Refresher course in Zoology, Madras University	2
Chemistry	05.06.2020 to 25.06.2020	21 Days Virtual Course on 'Research Methodology, K,S,Rangamy College of Technology (Autonomous), Tiruchengode and Nature Science Foundation, Coimbatore	1
	24.06.2020 to 07.07.2020	Online Refresher Course on Science Academics PG and Research Department of Chemistry & Physics, APA College of Arts and Culture, Palani A ⁺ Grade	1
	10.12.2020 to 23.12.2020	Refresher Course in Chemistry, UGC – HRDC, Bharathiar University Coimbatore A ⁺ Grade	1
Botany	07.10.2020 to 20.10.2020	Refresher Course in Botany, UGC – HRDC, Madras University, Chennai.	1
Department	Date	Short Term Course	No/. of faculty
Chemistry	18.05.20 to 24.05.20	Virtual Learning Environment, APA College of Arts and Culture, Palani	1
	17.08.20 to 22.08.20	Interpersonal Skills of Best Behavioral Teachers, Department of Management Studies PSR Engineering College Chennai	1
Botany	7.05.2020 - 23.05.2020	One Week online interdisciplinary Certificate Course on Basics of Organic Farming Department of Botany and IQAC, Athalye-Sapre-Pitre College, Devrukh	1
Department	Date	Induction Program	No/. of faculty
Chemistry	04.06.2020 to 01.07.2020	Induction Program For Faculties In Colleges/Universities/ Institute of Higher Education, Teaching Learning Centre, Ramanujam College, University Of Delhi	1

8. List of exhibitions/ seminars/training courses conducted by the college:

Department	Date	Seminar /workshop topic	Resource persons	Level	No. of participants
Zoology	15.07.2020	<p>Webinar in Animal Science – I Exploration of Biochemical &Molecular perspectives in Life</p> <p>Topic : Tailoring of Pheromone biosynthesis and hydrocarbon Characterization in India</p> <p>Topic: Micro RNAs in diagnostics and Therapeutics</p>	<p>Dr. Horne Iona Averal, Dean of Sciences, Associate Professor in Zoology, Holy Cross, Trichy</p> <p>Dr. Annie Jaya Christy, Deputy Director, Research Coordinator, Faculty of Medicine, AIMST University, Semeling-08 100, Bedong, Kedah Darul Aman, Malaysia</p>	International	261
	22.07.2020	<p>Webinar Animal Science-II Challenges for water resources sustenance</p> <p>Topic: Integrated Recirculating aquaponics system: A New Avenue Towards Sustainable Aquaculture Production and water Conservation”</p> <p>The use of Fluctuating Asymmetry of water Pollution on Aquatic organisms”.</p>	<p>Dr.P.Santhanam, Associate Professor, Department of Marine science, Bharathidasan University, Trichy</p> <p>Dr. Dmitry Lajus, Associate professor, Department of Ichthyology, Faculty of Biology and soil Sciences, St. Petersburg State University of Russia</p>	International	680

	29.07.2020	<p>Webinar Animal Science-III Sustenance of aquaculture Practices Via new Technologies”</p> <p>Topic : Resilience of Aquaculture and capacity of Fisheries - An economic development</p> <p>Topic: Recent Technologies in Global Aquaculture and its development to fulfil human needs</p>	<p>Dr. S. Bragadeeswaran, Deputy Director of Research and Development, Associate Professor, CAS Marine Biology, Parangipettai, Tamil Nadu</p> <p>Dr. N. Inayathullah Neyasudheen, Operational Farm Manager, Island Prawn Company, Saudi, Jeddah Saudi Arabia</p>	International	815
	02.09.2020	<p>Webinar IV on the topic : Environmental Impact Assessment</p>	<p>Mr. D. Kalidasan, President, OSAI Environmental Organisation Tatabad, Coimbatore</p>	National	70
	17.03.2021	<p>Seminar on Frontiers In Marine Resources, Biotechnology & Conservation</p> <p>Topic : Marine Resources, Conservation And Management</p> <p>Topic : Marine Bioresources: Status, Constraints & The Way Forward.</p>	<p>Dr. Dilip Kumar Jha, Scientist, National Institute of Ocean Technology, Ministry of Earth Science, Chennai, Tamil Nadu, India</p> <p>DR. P. Santhanam , Associate Professor, Department of Marine Science, Marine Planktonology & Aquaculture Laboratory Bharathidasan University , Tiruchirappalli, Tamil Nadu</p>	National	194

		Topic : Brackishwater Aquaculture Scenario In India With Special Reference To Shrimp Farming In India	Dr. Aravind.R Scientist ,Crustacean Culture Division, ICAR-Central Institute Of Brackish water Aquaculture, Santhome High Road, MRC Nagar, Chennai, Tamil Nadu		
	07.01.2021 to 08.01.2021	Disruptive technologies capable of changing our world (Science Academy, Bangalore)	Prof. Dr. Edathil Vijayan FNASc, President, Society for Biotechnologists, India (SBTI)	National	245
		Bioinformatics for drug designing	Prof. Dr. Premendu P. Mathur Vice Chancellor, Birla Global University, Gothapatna, Bhubaneswar, Odisha		
		Designer Enzymes and Restriction Enzymes ushered in the Biotechnology Revolution.	Prof. Dr. Desirazu N. Rao, Department of Biochemistry, Indian Institute of Science, Bangalore		
		Gut instincts and Gut reactions: The Gut Microbiome: the largest organ in the body &Gut instincts and Gut reactions: The role of cyclic GMP in gut function.	Prof. Dr. Sandhya S. Visweswariah, Department of Molecular Reproduction, Development and Genetics, Co-Chair, Centre for Biosystems Science and Engineering Biological Sciences, Indian Institute of Science, Bangalore		
		Stem cell banking and its role in Human healthcare& Artificial organs: How to fabricate?	Prof. Dr.Rama S. Verma , Stem Cell and Molecular Biology laboratory Bhupat and Jyoti Mehta, School of Biosciences, Department of Biotechnology, Indian Institute of Technology Madras		
		FDP-Challenges and Opportunities in Research Topic :Innovations for sustainable development	Dr. S. Paulsamy,	National	86

Botany	23.05.2020 & 24.05.2020	Topic: Writing a research proposal and funding opportunities in India	Dean, R& D, Kongunadu Arts and Science college, Coimbatore Dr. T. Gubendran, Scientist - C, High Altitude Regional Centre, Zoological Survey of India, Himachal Pradesh		
	28.05.2020 to 31.05.2020	FDP- Life Science for Enhancing Human Life Topic: Signal transduction in plants Topic: Understanding Summer Survivors from Desert Adaptors Topic: Research Quality, Ethics and Publications Topic: Photodynamic Therapy of Cancer	Dr. K. Lingakumar, Head and Associate Professor in Botany (Rtd.) Ayya Nadar Janaki Ammal College, Sivakasi Mr. Joseph Clement, Head and Associate Professor in Botany (Rtd). Government Arts College, Coimbatore Dr. Vinay Kumar, Associate Professor in Biotechnology, Modern College, Ganeshkhind, Pune. Dr. Blassan George, Researcher, Laser Research Centre Faculty of Health Science, University of Johannesburg, South Africa	International	128

Chemistry	28.05.20	Webinar on Chemistry of COVID Drugs	Dr. Krishnakumar Gnanasekaran. Expert Analyst, Pharmascience, Montreal, Quebec, Canada.	International	74
	30.05.20	Webinar on Challenges and Opportunities in Student's Career after COVID 19	Mr. N.V.Subramanyam Director T.I.M.E Institute Coimbatore	National	69
	12.09.20	Webinar on Youth for Society Development	Mr. K. T. Loganathan Assistant Professor Department of Chemistry Alagappa Chettiar College of Engineering and Technology Karaikudi	National	86
	10.03.21	Webinar on Panoramic view of Futuristic Trends in Chemical Sciences	1. Dr. Ganesh Chandra Nandi Assistant professor Department of Chemistry National Institute of Technology Trichy 2. Dr. N. Clament Sagaya Selvam Senior Research Associate School of Chemical Engineering Sunkyunkwan University (SKKU) South Korea 3. Dr. M. Boopalan Assistant Professor Department of Chemistry Pachaiyappa's College for Men, Kanchipuram	National	100

Training Programme for students

Department	Date	Training	Resource persons	No of participants
Zoology	16.10.2020 and 17.10.2020	Implementation of Genomic & Proteomic Tools for Beginners	Dr.R. Prathiviraj, DST –SERB- NPDF, Department of Microbiology, Pondicherry University, Puducherry	43
Chemistry	26.07.2020 and 27.07.2020	Human Excellence is Our Life Breath	Mrs. Myuri Arun Key Trainer CMT Academy Chennai	95
	11.05.2020	Awareness on Women Health	Dr.N.Gunavathy Assistant Professor and Head Department of Chemistry Nirmala College for Women Coimbatore.	227
	27.05.2020	Human Energy Management	Mrs.Mayuri Arun Professional Trainer and Counseling Psychologist Chennai	95
	15.06.2020	Laboratory Safety Symbol	Dr.N.Gunavathy Assistant Professor and Head Department of Chemistry Nirmala College for Women Coimbatore	725
	03.08.20	Human Excellence	Dr. Sheba Federic Head of Department of English, Bishop Ambrose College, Coimbatore.	61

9. Name, designation, host institute of guest faculty invited

Department	Date	Name and Designation of Resource person	Topic	No of participants
Zoology	04.08.2020	Dr. B. A. Daniel, Scientist/chairman of Zoo Outreach Organization, IUCN SSC South Asian Invertebrate Specialist Group of Education Coordinator, ZEN, Coimbatore.	Desert Locust	78
	07.08.2020	Dr.S.Subhashini, Assistant Professor, Department of Zoology, Arulmigu Palaniandavar Arts College for Women, Palani, Tamil Nadu	Entrepreneurship for Zoology	110
	13.08.2020	Mr. S. Deepan Chackravarthy, Wildlife Biologist and Conservationist of Wildlife Institute of India, Ministry of Environment Forest and Climate Change Government of India	Tiger in different Landscapes of India	70
	14.08.2020	Dr.S.Raja, Assistant Professor, Kongunadu Arts and Science College, Coimbatore	Prospects of Eco Friendly Organic Aquaponic System and Challenges in India	85
	09.09.2020	Dr.S.Ginil Mon , Assistant Professor, Nesamony Memorial Christian College, Marthandam	Environmental Resource Management	61
	09.10.2020	Mr. P.Kathirvel, IFS Officer, Conservator of Forest, Institute of Forest	Wild life Heritage in India	91

		Genetics and Tree Breeding Coimbatore		
	20.10.2020	Dr.N.Senthil Kumar, Scientist – E, Phytochemistry Department, Institute of Forest Genetics and tree Breeding, Coimbatore	Prospects of Antiviral compounds from medicinal plants for ongoing SARS CoV2 pandemic	101
	30.10.2020	Dr.C.A.Annapoorani, Assistant Professor, Department of Zoology, Avinashilingam Institute of Home Science and Higher Education for Women	Mosquito – borne diseases and its prevention	61
	06.11.2020	Dr.Clara Gunapoorani Sargunar, Associate Professor, Department of Zoology, Government arts College, Coimbatore	Bioremediation	71
	04.12.2020	Dr.S.BinuKumari, Assistant Professor, Department of Zoology, KongunaduArts and Science College, Coimbatore	Water Quality – A Priority for Successful Aquaculture	100
	07.12.2020	Dr.D.Prabha, Assistant Professor, Department of Environmental Sciences, Bharathiar University	Bioremediation for Environmental Restoration	92
	13.02.2021	Dr.S.Davidraj, Assistant Forest Ranger (Retd) and Marine Turtle protection Trust – Chairman, Chennai	Students participation in Eco development	101
	20.02.2021	Dr. Kumar Ponnuchamy, Assistant Professor Department of animal health and management, Alagappa university, karaikudi	Menace of microplastics	90

	13.03.2021	Dr.R. Krishnamurthy Assistant Professor, PG and Research department of Zoology and Aquaculture Govt Arts college, Nandhanam, Chennai - 35	Hydroponics – An innovative agri technology for sustainable future	91
	15.03.2021	Dr. RajeshKumar , Assistant Professor Department of Zoology, Kongunadu Arts and Science college, Coimbatore	Heavy metal contamination of Global Environment	72
Botany	12.08.2020	Bro. Jerald Mangalam, FSC, Director. De LaSalle Brothers, St. Miguel Arul Thentral, Nagamalai, Madurai	Human Excellence - Eco-friendly and Eco-spiritual	92
	27.01.2021	Dr. K. Kumari Sunita, Assistant Professor in Botany, DDU Gorakhpur University, Gorakhpur	Dark reaction and Photo respiration in Plants	89
	15.02.2021	Dr. Sivashankari, Assistant Professor & Head, Department of Bioinformatics, Nirmala College for Women, Coimbatore	Recent techniques in Bioinformatics	96
Chemistry	30.07.20	Dr T Sasikala Associate Professor and Head Department of Chemistry Sri Ramakrishna College of Arts and Science, Coimbatore	Life with Chemistry	80
	06.08.20	Dr.A.Anitha , Assistant Professor, V.V.Vanniaperumal College for Women ,Virudhunagar.	Renewable energy - Boon for Socio- economic Development	70

08.08.20	Dr. K. Kanagamani, Assistant Professor in Chemistry, SNS College of Technology, Coimbatore	Biogeochemical Cycles	23
30.08.20	Dr.K.Boobathi DST INSPIRE Faculty Department of Inorganic Chemistry, University of Madras, Guindy Campus, Chennai	Concepts of Isomerism	33
01.12. 20	Dr.B.Jebasingh, Associate Professor, Karunya Deemed University, Coimbatore	Basic concepts of mass spectrometry	51
04.12.2020	Dr.V.Jebasingh Associate Professor Department of Chemistry Karunya University Coimbatore	Rearrangement in Mass spectrometry	51
17.12.20	Dr.V.Mohan Raj Assistant Professor of Chemistry Manonmanium Sundaranar University Constituent College, Thirunelveli	Photochemistry – Chemistry of Lights -Part I	18
11.01.21	Dr. A. Murugesh, Assistant Professor, Department of Chemistry, Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore	Photo Chemistry - The Chemistry of Lights II – Part II	20
26.02.21	Dr.B. Kiruthika Rani Assistant Professor Department of Chemistry The American College Madurai	Principle and Applications of Infra red spectroscopy	40
26.02.21	Dr.Viswanathan Mahalingam Founder - CEO Research Publication Analyst, Royal Author Service, Coimbatore - 46	Exploring the Electro analytical Methods	98

CELEBRATION OF IMPORTANT DAYS ORGANIZED

Department	Date	Topic	Resource Person (designation with complete official address)	No. of Students
Zoology	13.01.2021	Youth Awakening Day - Poster Presentation		43
	15.10.2020	Commemoration Of Abdul Kalam Day Burden of the tropics: Vector borne diseases	Dr.Reena Rajkumari B Assistant Professor, SR Grade II, Department of Integrative Biology School of Bioscience and Technology, Vellore	96
	20.08.2020	INDEPENDENCE DAY CELEBRATION Polarisation of Society and its Amelioration: Challenges of India Through 74 years of Independence	Dr.S.Santhaprabhura Retd. HOD & Professor, History CBM College of Arts and Science, Coimbatore	81
Botany	05.06.2020	World Environment Day Celebration - Poster Competition on the topic Connecting People with Nature	Dr.R.Mary Josephine (Rtd.),Dean of Academics, Associate Professor and Head, Department of Botany. Nirmala College for Women, Coimbatore.	17
	12.10.2020	Youth Awakening Day Celebration Kalams dream of Today's Youth	Dr. M. Vivek Prabu, Assistant Professor in Mathematics, Kongunadu Arts and Science College, Coimbatore	36

		Pencil Sketch competition was organized on the topic “Save fuel for better Environment”	Dr.J.Caroline joe Rosario Asst.Professor and Head, Department of Botany , Nirmala College for Women.	
Chemistry	15.08.2020	Patriotic Event: Importance of Independence day and Cultural Heritage of India	Dr.R.Baskar Assistant Professor Department of Social Work Bharathiar University Coimbatore	72
	16.09.2020	Poster Competition: World Ozone Day Celebration - Ozone for Life	Dr.N.Gunavathy, Assistant Professor & HOD, Department of Chemistry, Nirmala College for Women, Coimbatore	70
	15.10.2020	Youth Awakening Day Kalam Salam 2020 Vaanam Vasapadum	Mrs.N.Ranganayagi B.T.Assistant , G.B.H.S.S, Shoolagiri,osur	100
	16.10.2020	World Food Day - Food Adulteration	Dr.P.Kalaivani Assistant Professor, Department of Chemistry, Nirmala College for Women, Coimbatore	79

**INTERCOLLEGIATE/INTERDEPARTMENTAL COMPETITIONS ORGANISED BY
THE DEPARTMENT**

Department	Date	Name of the Program	Number of Participants	Number of Colleges Participated
Zoology	24.05.2020	Brain Storm	63	14
	05-06-2020	Online Quiz Know your World Wild life and Sanctuaries of India	1361	100
	06.06.2020	PPT Presentation Topic: The Impact of Covid – 19 on the most vulnerable of India	25	11
	02.10.2020 to 08.10.2020	Wild life week Essay Competition Topic : Human wildlife Conflicts	90	22
Botany	16.05.2020	Online Quiz- Plant Diversity	500	18
	22.05.2020	Online Quiz- Botany in Daily Life	433	24
Chemistry	15.06.2020	Online Quiz in QUIZitive 2020	395	53
	15.06.2020	Online Lecture Theory of ¹ H-NMR Spectroscopy	144	4
	16.05.2020	Poster Competition World Before and After Pandemic Covid	73	5
	18.05.2020	Online Medchem Quiz Medicinal Values of Phytochemicals	467	90
	25.05.2020	Online Quiz Nano Chem Quiz	334	72
	27.05.2020	Online Motivational Talk Personality Development	216	17

	28.05.2020 to 31.05.2020	Online Quiz Concerted Reactions	662	116
	01.06.2020to 03.06.2020	Online Quiz Green and Medicinal Chemistry	388	29
	02.06.2020	Online Quiz Know Your Chemicals	412	23
	06.06.2020	One Minute Video Energy Conservation	56	6
	10.06.2020 to 12.06.2020	Online Quiz Role of Chemistry in Everyday Life	608	133
	16.06.2020 to 20.06.2020	Online Quiz Energy Conservation and Management	447	34
	18.06.2020 to 20.06.2020	Chem E- Connection Quiz Guess Who & What?	703	45
	22.06.2020	Online Cum Awareness Quiz Plastics - Weapons of Mass Destruction to Marine life	336	25
	23.08.20	Collage Competition Faces of Humanity-Our Hope Beyond Boundaries	63	1
	06.09.20	Pookolam Competition Onam Celebration	10	2
	16.09.20	Poster Competition Ozone for Life	70	2
	18.09.2020	Cookery Competition Flameless Desserts	25	2
	15.10.2020 to 25.10.2020	Painting Competition (Youth Awakening Day Event) Dr.A.P.J Abdul Kalam Birthday Envisioning Empowered INDIA	102	1

	17.10.2020	Debate Chemistry Association Competition Adaptation and Mitigation Effects on Population Health	25	1
	25.02.2021	Quiz Competition General Concepts in Chemistry	29	1
	27.02.2021	Essay Competition Learning at Home During Lockdown	55	1

STUDENT PARTICIPATION IN SEMINAR/ CONFERENCE/WORKSHOP

Department	Date	Topic	Seminar/ Conference/ Workshop	National/ International	Organized by	No. of Students Attended
Zoology	15.07.2020	Webinar in Animal Science – I “Exploration of Biochemical &Molecular perspectives in Life”	Webinar	International	Department of Zoology, Nirmala College for Women	164
	22.07.2020	Webinar in Animal Science – II “Challenges for Water resources sustenance”	Webinar	International	Department of Zoology, Nirmala College for Women	150
	29.07.2020	Webinar in Animal Science – III “Sustenance Of Aquaculture Practices Via New Technologies”	Webinar	International	Department of Zoology, Nirmala College for Women	162
	02.09.2020	Environmental Impact Assessment	Webinar	National	Department of Zoology, Nirmala College for Women	160
	07.01.21	Science Academies Virtual Lecture	Webinar	National	Department of Zoology,	164

		Workshop On Innovations And Relevance Of Biotechnology			Nirmala College for Women	
Botany	14.05.2020	Plant Molecular Biology in space	Webinar	International	DBT	157
	10.06.2020	Ayurveda for Women's Health	Webinar	National	DBT	93
	15.08.2020	Patriotism in Today's Scenario	Webinar	National	DBT	86
	14.05.2020	Microalgal Biotechnology for Aquaculture and Biofuel Applications	Webinar	National	DBT	92
	10.03.2021	Recent trends in Algal Biotechnology	Webinar	National	DBT	88
	27.02.2021	Biotechnological applications of Microalgae	Webinar	International	DBT	92
	22.02.2021 to 26.03.2021	Forest entomology and Pest Control	Workshop	National	Ministry of environment, Forest and climate change, Government of India , New Delhi At Institute of Forest Genetics and Tree Breeding, Coimbatore.	1
Chemistry	28.05.20	Webinar on Chemistry of COVID Drugs	Webinar	International	Department of Chemistry, Nirmala College for Women, Coimbatore	35
	30.05.2020	Challenges and opportunities in	Webinar	National	Department of Chemistry, Nirmala	62

	student career after COVID 19				College for Women, Coimbatore	
27.06.2020	Virtual Workshop on “ How to Combat COVID 19 With a Mask ”	Workshop	National		IQAC & Department of Biochemistry, New Prince Shri Bhavani Arts & Science College, Chennai-600 100.	1
01.07.2020	Principles of NMR/EPR/ESR Problems & Application	Webinar	National		Government Arts College for Women, Krishnagiri-635 002.	1
01.07.2020	Environmental Chemistry	Webinar	-		Government Polytechnic College, Uthangarai	1
04.07.2020	Potential Small Molecules for possible Covid-19 Treatment	Webinar	International		Government Arts College for Women, Coimbatore	1
08.07.20	Spectroscopic Techniques – II	Webinar	National		The Americal College, Madurai	1
09.07.20	Analytical Techniques	Webinar	National		The Americal College, Madurai	1
11.07.20	Effective Prepartion Lecture	Webinar	-		PSG College of Technology and Applied Research	1
22.07.20	Future Impact on Pharmaceutical industry in chemical engineering	Webinar	-		KPR Institute of Engineering and Technology .	1

25.07.20	Drug Discovery And Development”	Webinar	-	Government Arts College, Coimbatore – 641 018 .	1
08.08.20	International webinar on material based strategies for high efficiency solar cells	Webinar	International	Government Arts College, Coimbatore .	1
10.8.20	Je decouvre dunkerque	Webinar	-	French Department – Nirmala College for Women.	1
12.8.20	Quebec and the French presence in canada	Webinar	-	French Department – Nirmala College for Women, Coimbatore.	1
20.08.20	French studies in career prospect In th 21 st century	Conference	-	French Department – Nirmala College for Women, Coimbatore.	2
01.09.2020	Workshop on Artificial Intelligence in Drug Discovery	Workshop	National	CSIR – NEIST	1
12.09.20	Youth for Society Development	Webinar		Department of Chemistry, Nirmala College for Women, Coimbatore	46
17.09.2020	International Webinar on Covid-19	Webinar	International	Government Arts College Coimbatore	1
28.09.2020	Career prospects in chemical science	Webinar	International	Assumption College, Changanassery, Kerala	1
02.10.2020	Writing a persuasive cover letter	Webinar	International	Elsevier-Research Academy	1

	02.10.20	Guide to reference manager	Webinar	International	Elsevier-Research Academy	1
	15.10.2020	Tamil Conference About Abdul Kalam	Conference	-	Department of Tamil, Nirmala College for Women, Coimbatore.	5
	10.03.2021	Panoramic view of Futuristic Trends in Chemical Sciences	Webinar	National	Department of Chemistry, Nirmala College for Women, Coimbatore.	60

10. Date of Advisory committee meeting: 17.02.2021

Chaired by Dr Garima Gupta, DBT Scientist 'E', Program Coordinator

Mentor meeting

Department	Date	Name	Designation
Chemistry	02.03.2021	Dr.S.Manonmani	Associate Professor & Head Department of Chemistry PSG College of Arts and Science, Coimbatore

11. List of New Practical's/ demonstrations introduced in different departments in last one year:

Department	Class	List of new practical introduced
Zoology	I-B.Sc	Sericulture Practicals 1. Estimation of Shell Ratio 2. Estimation of Denier 3. Estimation of Renditta
	II-B.Sc	1. Most probable number (for identification of quality testing of water) 2. Detection of Coliphage from water / sewage 3. Estimation of Total hardness and Iron in water samples 4. Estimation of Calcium and Chloride in soil samples 5. Deduction of E.coli and Salmonella from sewage

	III-B.Sc	<ol style="list-style-type: none"> 1. Isolation of Genomic and Plasmid DNA 2. Agarose Gel Electrophoresis 3. Separation of protein-SDS PAGE 4. Isolation and Estimation of DNA/RNA from animal tissues 5. Demonstration of Blotting techniques <p>PARASITOLOGY</p> <ol style="list-style-type: none"> 1. Study of life stages of <i>Entamoeba histolytica</i>, <i>Giardia intestinalis</i>, <i>Trypanosoma gambiense</i>, <i>Leishmania donovani</i> and <i>Plasmodium vivax</i> through permanent slides/micro photographs 2. Study of adult and life stages of <i>Ascaris lumbricoides</i>, <i>Ancylostoma duodenale</i>, <i>Wuchereria bancrofti</i> and <i>Trichinella spiralis</i> through permanent slides/micro photographs 3. Study of <i>Pediculus humanus</i> (Head louse and Body louse), <i>Xenopsylla cheopis</i> and <i>Cimex lectularius</i> through permanent slides/ photographs <p>WILD LIFE CONSERVATION AND MANAGEMENT</p> <ol style="list-style-type: none"> 1. Identification of flora, mammalian fauna, avian fauna, herpeto-fauna 2. Demonstration of basic equipments needed in wildlife studies - use, care and maintenance - Compass, Binoculars, Spotting scope, Range Finders, Global Positioning System, Various types of Cameras and lenses
Botany	I Year	<ol style="list-style-type: none"> 1. Individual Experiment - Water quality test using water sample collected from various ponds in and around Coimbatore 2. Demonstration on Algal culture.
	II Year	<ol style="list-style-type: none"> 1. Microtome sectioning and preparation of permanent slide. 2. Isolation of DNA demonstration. 3. Individual Experiment - DNA Isolation and chloroplast isolation 4. Demonstration on Mitochondria Isolation
	III Year	<ol style="list-style-type: none"> 1. Demonstration of HPLC, Blotting techniques, PCR & RT PCR. 2. Anatomy – Permanent slide preparation 3. Individual Experiment : protein separation using electrophoretic techniques 4. Demonstration on milky and Oyster mushroom production.
Chemistry	I B.Sc	<ol style="list-style-type: none"> 1. Water Analysis 2. Soil Analysis 3. Estimation of P^H and turbidity of water samples 4. Estimation of Hardness and Total Dissolved Solids(TDS) of Water Samples

		5. Qualitative Analysis of Waste Water Effluents from Various Laboratory
II B.Sc		1. Colorimetric Estimation 2. Chromatographic Experiments 3. Estimation of Acetic acid in Vinegar, alkali content in commercial antacid sample 4. Colorimetric Estimation of Copper ion. 5. Detection of adulterants in food 6. Estimation of Citric Acid Content in Natural Fruit Juices 7. Introducing Thin Layer Chromatography : Preparation, Measuring Rf Values 8. Application of TLC for Qualitative Analysis of Various Compounds
III B.Sc		1. Potentiometric Titration (Acid Base) 2. Estimation of Na and K ions using flame photometry 3. Estimation of Metal Ion using EDTA by Complexometric Method 4. Determination of Phytochemical Constituents present in Various Plant Parts

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

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

12 b. **Recurring Expenditure**

Department	Date	Recurring grant	Amount (Rs.)
Zoology	30.01.21	Books	15,000.00
	09.02.21	Chemicals	21,666.00
	09.02.21	Chemicals and glasswares	7363.00
	20.02.21	Guest Lecture - Menace of microplastics	2000.00
	24.02.21	Chemicals	6950.00
	24.02.21	Chemicals	15,533.00
	01.03.21	Brood boxes	5300.00
	09.03.21	Apiary Stands and cups	1200.00
		Students projects	15,000.00
	12.03.21	Guest Lecture - Hydroponics – An innovative agri	2000.00

		technology for sustainable future	
	12.03.21	Chemicals	2566.00
	12.03.21	Chemicals	3196.00
	15.03.21	Guest Lecture - Heavy metal contamination of Global Environment	2000.00
	17.03.21	Seminar -	9000.00
		Text books	15,000.00
		TOTAL	1,08,774/-
Botany	27.01.2021	Guest Lecturer	2000.00
	15.02.2021	Guest Lecturer	2000.00
	10.03.2021	National Webinar	2000.00
	27.02.2021	International webinar	4000.00
	12.03.2021	Webinar	2000.00
	22.03.2021	Books	10000.00
	22.03.2021	Chemicals	45,392.00
	24.03.2021	Chemicals	12608.00
	19.03.2021	Project	20000.00
		TOTAL	100000/-
Chemistry	01.03.2021 03.03.2021 04.03.2021	Chemicals	30,000.00
	01.03.2021 02.03.2021	Glass wares	34,000.00
	26.02.2021	Guest Lecture –I Principle and Applications of Infra red spectroscopy	2,000.00
	26.02.2021	Guest Lecture –II Exploring the Electro analytical Methods	2,000.00
	10.03.2021	International Webinar	6,000.00
	09.02.2021	Text Books	6,000.00
	25.03.2021	Students projects	20,000.00
		TOTAL	1,00,000/-

13. Details of books & journals subscribed from DBT grant

Department	List of Books	No. of copy
Zoology	1. Animal physiology	1
	2. Fundamentals of Biochemistry	1
	3. Essentials of Animal physiology	1
	4. Entomology	1
	5. Principles of Molecular biology	1
	6. Handbook of Laboratory solutions	1
	7. Essentials of Life science	1
	8. Biostatistics	1
	9. Handbook of Fisheries and Aquaculture technology	1
	10. Manual of practical Zoology Chordate	1
	11. Ecology and Environmental Biology	1
	12. Economic Zoology	1
	13. Chordate Zoology	1
	14. Research methodology	1
	15. Textbook of Biotechnology	1
	16. Economic Zoology	1
	17. Biology of Non-chordates	1
	18. Biology of Chordates	1
	19. Wildlife Biology	1
	20. Introduction to fish biology and fisheries	1
	21. Handbook on wild and zool animals	1
	22. Parasitology	1
	23. Stem cells	1
	24. Textbook of Microbiology	2
Botany	1. Botany for Degree Gymnosperm	1
	2. Introduction To Forestry	3
	3. Hand Book Of Mushrooms	1
	4. Mushroom Cultivation	2
	5. Basics of Organic Farming	1
	6. Food Science	1
	7. Cell Biology	1
	8. Introduction To Agronomy	1
	9. Question Bank Of Horticulture	1
	10. Plant Ecology	1
	11. A Text Book Microbiology	1
	12. Botany For Degree Students Fungi	1
	13. A Competitive Book Of Agriculture	1

Botany	14. Introduction To Biophysics	1	
	15. Food Processing And Preservation	1	
	16. Economic Botany	1	
	17. Food Microbiology	1	
	18. Fundamentals Of Plant Breeding	1	
	19. Plant Anatomy	2	
	20. Essentials Of Plant Breeding	1	
	21. An Advanced Text Book On Biodiversity - Principles And Practice	1	
	22. An Introduction To Agriculture	1	
	23. Competitive Forestry	1	
	24. Plant Pathology	1	
	25. Fundamentals Of Plant Breeding	1	
	Chemistry	1. Fundamentals of Molecular Spectroscopy	1
		2. Quantum Mechanics	1
		3. Allied Chemistry Paper I & II: English	3
4. Organic Chemistry		3	
5. Molecular Structure and Spectroscopy		1	
6. Organic Spectroscopy		1	
7. Vibration Spectroscopy		1	
8. Organic Chemistry		1	
9. Elements of Analytical Chemistry		1	
10. Chemical Applications of Group theory		1	
11. Stereochemistry of Organic Compounds		1	
12. Organic Spectroscopy		1	
13. Spectrometric Identification of Organic Compounds		1	
14. Concepts and Models of Inorganic Chemistry		1	
15. Basic Principles of Practical Chemistry		1	

14. Qualitative improvements due to DBT support (please highlight (5 salient lines))

<p>Zoology</p>	<ol style="list-style-type: none"> 1. Increased Laboratory resources and practical techniques on an individualized basis have attracted more number of students for PG programmes and subsequent research. 2. Sustained Field visits/Industrial visits/ Hands on training/ Workshops/Guest lectures have kept the students well exposed to real time happenings and motivated them to progress further. 3. Number of students taking up National/State level competitive exams has increased. 4. Provision of Recurring amount has helped the department to sustain all the activities in a dynamic manner. 5. Group projects have held the scientific temper of young minds. Opportunity to present and publish their papers at the UG level. 6. Extensive community and extension activities from lab to land has been executed
<p>Botany</p>	<ol style="list-style-type: none"> 1. The students are benefited by undergoing projects. 2. By undergoing projects it increases the scope of Botany. 3. Infrastructure – Equipments and books improved the quality of teaching and hands on experience to the students. Attending Hands on training, workshops, guest lectures, presenting papers and posters provides an opportunity to pursue students in higher studies.
<p>Chemistry</p>	<ol style="list-style-type: none"> 1. Guest Lectures given by eminent persons in specialized areas enabled the students to have a better understanding and to know the latest development in the subject. 2. Industrial visits, Institute visits and field trip facilitated the students to have better exposure to the subject. 3. Participating Conferences, Seminars and training Program helped the Students to get deep insight to the subject and gain confidence to present papers in National and International seminars and Conferences. 4. Students get inspired in carrying out Research in diverse fields. 5. Students get equipped and skilled for their Career enhancement.

15. Problems faced, if any, in implementation of the programme and utilization of DBT grant (in Two-three lines)

Utilization of DBT grants could be recommended for the Post graduate courses also.

16. Awards and Achievements

Awards - Faculty

Department	Date	Name of the faculty	Name of the Award	Organizing Committee
Zoology	NIL	-	-	-
Botany	NIL	-	-	-
Chemistry	30.01.2021	Dr.N.Gunavathy	World book of Record- Thickest Book in the World “Latest Innovation for Future Education”	ESN Publication, Chennai
	09.03. 2021	Dr.N.Gunavathy	Global Eminent Academician Award	Global Eminent Awards VIJ Trust Thiruniravur Thiruvallur Chennai Reg. No.959/2010/BK4

FACULTY AWARDED Ph. D

Department	Name of the Staff	Date of Registration	Date of Viva-Voce	Title	Name of the Supervisor
Zoology	Dr.Sajani Jose	01.06.12	15.07.2020	Efficacy of bioactive compounds of selected medicinal plants against the pod borer <i>Helicoverpa armigera</i> (Hubner)(Lepidoptera: noctuidae) and its molecular characterization	Dr.K.Sujatha
	Dr.B.Karpagam	29.02.12	29.12.2020	Feed formulation and its impact on growth and immune response of <i>Oreochromis mossambicus</i>	Dr.N.Krishnaveni

Achievements of students

Department	Date	Name of the student	Event	Achievement	Organizing committee
Zoology Zoology	16.11.2020	Renuka V T Sreelakshmi S R Sruthi D S	-	Indira Gandhi Scholarship for Single Girl child (Rs.36,000/-)	UGC
	17.11.2020	Sowndarya C	-	Certificate of Merit (Rs.2,00,000/-)	School Games Federation of India
	16.03.2021	Ashnadevi .V Lavanya.S J.R.Kavitha	Tamil Kavithai	Tamil Kavithai Competition International Certificate	Dr.Ravi Govindaraj Head and T&D IGH Qatar Amampal Tamil Sangam
	07.10.2020	Sr.Neenu		'Filmmaking as a tool for Science Communication	IISER Pune
	Feb 2021	Darsana .P		Dr.APJ Abdul Kalam Award	C. Subramaniam Trust and Dr.Abdul Kalam Mission, Pollachi
	March 2021	Darsana .P		Youth of Excellence award	Siragual Trust
	March 11 th 2021	B.Brindha	Debate program in Saalai Vithigalai Makkal Mathikiragla/ Mithikirargala	International Certificate	Qatar Aambal Thamizh Sangam

	April 2 nd 2021	B.Brindha	Tamil Poetry Competition- Marathum Nelaparapu	International Certificate Kavi Ulaga poonjoli International Award	Qatar Aambal Thamizh Sangam -
	April 8 th – 9 th 2021	R. Kalai Archana B.Brindha S. Lavanya	Debate program Topic- which one greatly contributes to the social renaissance? Political change/ Economic Progress	International Certificate	Integral Training Center Qatar
	Feb 2020	Raymol.K.J.		Kerala Teacher Eligibility Test (Category III)	Kerala Government Education Board
	Feb 2020	Mubashira.T.I		Kerala Teacher Eligibility Test (Category III)	Kerala Government Education Board
	Feb 2020	Lulu Fathima		Kerala Teacher Eligibility Test (Category III)	Kerala Government Education Board
	Feb 2020	Amrutha		Kerala Teacher Eligibility Test (Category II)	Kerala Government Education Board
	Jan 2020	Sahla.V.P		Kerala Teacher Eligibility Test (Category III)	Kerala Government Education Board
	Feb 2020	Sr.Vijimole.P.J.		State Eligibility Test	Kerala Government Education Board
	June- 2020	Priyanka K V		Joint CSIR- UGC Net June 2020	CSIR-UGC

Botany	26.02.2021	Kavya V		State Eligibility Test	Kerala Government Education Board
	26.02.2021	Divya .B		State Eligibility Test	Kerala Government Education Board
	26.02.2020	Sangeetha E.V		State Eligibility Test	Kerala Government Education Board
	June -2020	Fida Afnan B M		Gate 2020	IIT, Bombay
	04.01.2020	Kriba R		UGC National Eligibility Test For Assistant Professor	UGC
	June -2021	Sofia A. G		VHSC Agriculturist	SCERT, Kerala
	Dec - 2020	Navya		Kerala teacher eligibility test	Kerala Government Education Board
	Dec - 2020	Neethu		Kerala teacher eligibility test	Kerala Government Education Board
	Dec - 2020	Sara Paul		Kerala teacher eligibility test	Kerala Government Education Board
	18/03/2021	Aathira.E.P.		Kerala teacher eligibility test	Kerala Government Education Board
	18/03/2021	Bincy.P		Kerala teacher eligibility test	Kerala Government Education Board

Chemistry	Feb 2020	Vindusha.P		Qualified SET	LBS Centre for Science & Technology Government of Kerala
		Priyanka P		Indira Gandhi Single Girl Child Scholarship Rs.36,000/-	University Grants Commission
		Annapoorni. M		Indira Gandhi Single Girl Child Scholarship Rs.36,000/-	University Grants Commission
		Mrinalini J Shah		Shree Coimbatore Gujarai Samaj, Rs.10,000/-	Shree Coimbatore Gujarai Samaj

Extension Activities

Department	Date	Activity	Place	Number of Beneficiaries
Zoology	16.09.2020	Established Vermicompost unit, Provided loaves of bread for families in the village	Palamalai	46 families
	23.01.2021	Survey of village household	Perukkaipathy	40 household
Botany	05.09.2020	Mushroom cultivation	Palamalai Village	46 families
	23.01.2021	Survey of village household	Kunjoorpathy	35 families
Chemistry	29.08.20	An Outreach Programme under the title "Good Health and Well Being and Create Awareness about Food Nutrition and Food Adulteration.	Kunjurpatti Village Palamalai Mettupalayam Coimbatore	40 Families

BEST PRACTICES

Department	DATE	ACTIVITY	Amount/ Number
Zoology	10.06.20 to 16.06.20	Harvesting of vermicompost	700kgs
	10.01.21 to 16.01.21	Harvesting of Vermicompost	850kgs
Botany	11.12.2020	Mushroom cultivation unit has been implemented in the campus and harvested the mushrooms.	6 Kgs.
	5.02.2021 to 18.03.2021	Medicinal plants donated to medicinal garden by the students	135 Nos.
Chemistry	On All Working Days	Maintenance of Kitchen Waste Biogas in College Hostel Kitchen	-
	During all Practical Classes	Reduction in the use of chemicals for the practicals by using half the quantity mentioned in the procedure	-
	05.09.19	Solar Powered Fan & Light Installed in Department Library	2

RESEARCH PROJECT MAJOR/ MINOR PROJECTS

Department	Date	Name of the faculty	Topic	Funding Agency	Amount (Rs.)	Sanctioned/ Ongoing/ Completed
Zoology	2020-2021	Dr.B.Dhanalakshmi	Aquaponics	Seed Money Project Nirmala College for Women, Coimbatore	10000	Ongoing 01.12.2020 to 31.05.2021

Botany	2020 - 2021	Dr.T.Anitha	Study of effect of green tea in oral bacteria	TNSCST Student project scheme	7000	Completed
	2020-2021	Department of Botany	Mushroom Cultivation	Nirmala College for Women, Coimbatore	10000	Ongoing 01.12.2020 to 31.05.2021
Chemistry	2019-2020	Dr.P.Dhivya (ID: ES023)	Biosynthesis of Silver Nanoparticles by Marine Vertebrate and Assessment of its Biological Efficacy against Human Pathogens	Tamilnadu State Council for Science and Technology	7500	Completed
	2020-2021	Dr. P.Dhivya (PI) Mrs. J. Johncy Caroline (Co PI)	Veggie and Fruitful Discoveries: Nano - Bioadsorbents –The Power to Purify Waste water from Laboratories Laden eith Heavy Metals.	Nirmala College for Women, Coimbatore	10000	Ongoing 01.12.2020 to 31.05.2021

STUDENT PAPER PUBLICATIONS

Month & Year	Name of the faculty	Topic	Name of the Journal	Vol No, Issue No, Pg No	ISSN	Impact factor	Indexing Details
Mar 2021	SK Swetha and P V Joseph	Immunomodulatory activity and FT-IR studies on the Mucus of freshwater fishes <i>Anguilla bengalensis</i> and <i>Pangasianodon hypophthalmus</i> (<i>Pangasius sutchi</i>)	<i>NOVYI MIR Research Journal</i>	6(3): 101-114	0130-7673	6.1	UGC Web of science
Apr 2020	T Abisha, Sruthy S and PV Joseph	Therapeutic Effects Of Honey Produced By <i>ApisCeranaIndica</i> , Reared In The College Campus, Coimbatore, Tamilnadu .	<i>European Journal of Pharmaceutical and Medical Research</i>	7 (5), 437-445	2394-3211	6.2	Google Scholar
Dec 2020	SK Swetha and P V Joseph	Antimicrobial and Haemolytic activity of the mucus of fresh water fishes <i>Anguilla bengalensis</i> and <i>Pangasiussutchi</i>	<i>Journal of Advanced Scientific Research</i>	11 (8), 146-149	0976-9595	0.567	UGC Care, Google Scholar
Apr 2020	Sruthy S, Abisha T J and PV Joseph	Characterization Of Honey Produced By <i>ApisCerenalIndica</i> , Reared In The College Campus, Coimbatore, Tamilnadu, India.	<i>Internal of Zoological Investigations.</i>	6 (2), 349-359.	2454-3055	2.98	Google Scholar
Jan 2020	Pouline B and P V Joseph	Antioxidant property of <i>Andrographispaniculata</i> and <i>Gymnemasylvestre</i> .	<i>Journal of Advanced Scientific Research</i>	11 (1), suppl (1)), 254-260	0976-9595	0.567	UGC Care, Google Scholar

Sep 2020	Mercy. M and Sr. Mary Fabiola	Seasonal Variations in Physicochemical Parameters of selected Wetlands in and around Coimbatore District.	<i>International Journal of Pharma and Bio Sciences. Pharm Sci.</i>	11(3) : B:54-59	0975-6299	7.583	Embase (ELSEVIER)
Oct 2020	Aleena. Mary Joy, Dr.G.S.MaryFabiola and Gayathri Krishna K. U.	Screening of selected plant extracts for Larvicidal activity against Spodopteralitura, (Fab)., (Lepidoptera: Noctuidae	<i>The International Journal of Analytical and Experimental Modal Analysis</i>	XII(X):1446-1455.	0886-9367	6.3	UGC Google Scholar
Feb 2020	P. Susheela, Rosaline Maryand R. Radha	Studies on the physico-chemical characterization and elemental analysis of two species of wasp nests collected from Coimbatore district, Tamil Nadu	<i>International Journal of Advanced Life Sciences</i>	13(1):27-34.	2277 – 758X	0.674	Google Scholar
Aug 2020	Dr. Rosaline Mary, Praveena,V	,Effect of varying levels of selected plant leaf meal diet on growth performance, haematological indices and biochemical parameters of <i>Tilapia</i> fish (<i>Oreochromismossambicus</i>),.	<i>International Journal of Creative Research Thoughts</i>	8(8):1128-1142	2320-2882	7.97	Google Scholar Thomson Reuters
Aug 2020	Athira V. N., B. Dhanalakshmi , S. Dinesh Kumar.	A comparative study on the effect of green preservatives to increase the shelf life of commercially important fish fillet in frozen condition	<i>Int. J. Pharm. Sci. Rev. Res.</i>	62(1): 133-137	0976 – 044X	0.65	Elsevier-Scopus
Jun 2020	Rini T.R., B. Dhanalakshmi , S. Dinesh Kumar	Human Health Risk Assessment of accumulation of Heavy Metals Via Consumption of Marine Fish Collected from Local Vendors of Palakkad District, Kerala, India.,	<i>International Journal of Pharmaceutical Sciences Review and Research.</i>	62(1):153-159	0976 – 044X	6.857	Elsevier-Scopus

Apr 2020	Priyatharsini, P., S. Sivashankari, B. Dhanalakshmi , S. Dinesh Kumar, P. Santhanam, M. Pragnya.	The Systematic Approach of Heavy Metals Accumulation in <i>Oreochromis niloticus</i> from Theroor Wetland, Kanyakumari, India	<i>Environment and Ecology</i>	38 (2): 255-264.	0970-0420	4.18	UGC Research Gate
Feb 2020	Dinesh Kumar, S., Kang Sojin, P. Santhanam & B. Dhanalakshmi .	Reciprocal response of nitrogen for enhancing growth and proximate compositions of marine microalga <i>Tetraselmis</i> sp. under low saline conditions	<i>Indian Journal of Geo Marine Sciences</i>	49 (02): 326-332	0975-1033	0.328	UGC Research Gate
Jun 2020	Athira, V. N., B. Dhanalakshmi , S. Dinesh Kumar.	Application of Green Bio-Preservatives in Extending the Shelf Life of Commercially Important Fishes <i>Sardinella longiceps</i> and <i>Rastrelliger kanagurta</i>	<i>Entomology and Applied Science Letters</i>	7(2): 35-4.	2349-2864	1.09	UGC, Thomson Reuters
May 2020	Suganya, S., B. Dhanalakshmi & S. Dinesh Kumar	Biosynthesis and characterization of silver nanoparticles from <i>Sargassum wightii</i> and its antibacterial activity against multi-resistant human pathogens.	<i>Indian Journal of Geo Marine Sciences</i>	49 (05): 839-844	0975-1033	0.328	UGC Research Gate
Nov 2020	Dinesh Kumar, S., P. Santhanam, N. Krishnaveni, P. Raju, A. Begum, S. U. Ahmed, P. Perumal, M. Pragnya, B. Dhanalakshmi and Mi-Kyung Kim.	Baseline assessment of water quality and ecological indicators in <i>Penaeus vannamei</i> farm wastewater along the Southeast coast of India.	<i>Marine Pollution Bulletin</i>	160: 111579			Elsevier BIOBASE Scopus

Dec 2020	Chitra G., B.Dhanalakshmi.	Nutritional Quality Of Commercially Important Marine Fishes <i>ScomberomorusGuttatus</i> and <i>CynoglossusSemifasciatus.</i> ,	<i>International Journal of Pharma and Bio Sciences</i>	11(4): b41-45.	0975- 6299	7.446	UGC, Elseiver Ebsco
Sep 2020	Feona, K. Tom. and Chitra, G.,	Nutritional and sensory quality of value added food products from Indian Mackerel, Rastrelligerkanagurta.	<i>International Journal of Creative Research Thoughts</i>	8(9): 2748- 2755	2320- 2882	7.97	UGC, Thomson Reuters
Sep 2020	Premalatha, Z. and Chitra, G.	Evaluation of commercial probiotic (Bifilac) as a growth promoter for murrel, Channa striatus fingerlings.	<i>International Journal of Current Advanced Research</i>	9 (08A): 22922-22928	2319- 6475- E	6.614	UGC, Thomson Reuters
Jun 2020	Merline, X. and Chitra, G.	Nutritional, microbial and sensory qualities of cutlets, nuggets and fingers prepared from <i>Scomberomorusguttatus</i> .	<i>International Journal of Current Advanced Research</i>	9 (05A): 22077-22081.	2319- 6475- E	6.614	UGC, Thomson Reuters
Jun 2020	Merline, X. and Chitra, G.	Comparative study on the proximate composition of prawn, lobster and puffer fish from Pamban, Rameswaram Island, South East Coast of India.	<i>International Journal of Creative Research Thoughts,</i>	8(5): 1278 - 1282	2320- 2882	7.97	UGC, Thomson Reuters
Dec 2020	Chitra, G. and Dhanalakshmi, B.,	Nutritional quality of commercially important marine fishes <i>Scomberomorusguttatus</i> and <i>Cynoglossussemifasciatus</i> ,	<i>International Journal of Pharma and Bio Sciences</i>	11(4): 41-45.	0975- 6299	7.446	UGC, Elseiver Ebsco
October 2020	Nimmy, M.V and Sajani Jose,	Screening of larvicidal activity of crude leaf extracts of <i>Gliricidia sepium</i> against IV instar larvae of gram pod borer <i>Helicoverpa armigera</i>	<i>Journal of Biology and Nature</i>	12(1), 25-29.	2395- 5376		Web of Science, ICI, index- copernicus, UGC approved Journal list.

2020 March	Deepthi, U and Sajani Jose, ,	Effect of Electromagnetic radiation on Monomorium - pharaonis	<i>International Journal of Recent Scientific Research</i>	(03A), 37712-37715	2319-7064	7.583	Pubmed, index-copernicus, Thomson -Reuters
2020 May	Mangaiyarkarasi, R and Sajani Jose	Effect of A. muricata and Cinnamomumverum leaf powders on rice weevil (S.oryzae) in stored rice grains	<i>International Journal of Entomology Research</i>	5 (3), 84-86.	2455-4758	5.24	Web of Science, ICI, index-copernicus, Google Scholar.
2020 July	Maya, p and Sajani Jose	Phytochemical and Antioxidant study of Morinda citrifoli	<i>International Journal of Advanced Research in Biological Sciences</i>	7(4), 156-160.	2348-8069	6.433	ICI, Google Scholar.
2020 May	Sajani Jose and Maya, P. M,	Microbial Analysis in Termite Mound Soil and Normal Soil	<i>European Journal Of Pharmaceutical And Medical Research</i>	7(6),729-731	2394-3211	6.222	Web of Science, ICI, index-, Google Scholar, Pubmed,
2020 March	Nimmy. M V and Sajani Jose	phytochemical analysis and antifeedant activity of crude leaf extract Gliricidiasepium against IV instar larvae of Helicoverpaarmigera.	<i>International Journal of Recent Scientific Research</i>	11, (3C), 37870-37873.	2319-7064	7.583	Pubmed, index-copernicus, Thomson –Reuters
2020	Kaviya.V and B.Karpagam	A study on inhibition activity of alpha- amylase and anti- diabetic activity of <i>Cirrhinus mrigala</i> treated with Catharanthusroseus flower extract.	<i>International Journal of Research and Analytical Reviews</i>	7(4): 59-69	2349-5138		UGC
Aug 2020	Roopavathy, J; Karpagam, B; Vigneshpriya, D	Effect of <i>Ziziphus jujube</i> leaf extract on kidney of freshwater fish, <i>Oreochromis mossambicus</i> .	<i>International Journal of zoology and applied biosciences</i>	5(4): 210-216.	2455-9571	1.561	Pubmed, Google Scholar
2020	R. Dhivya K. Sunisha	GC-MS Analysis and Antioxidant Activity of Organic Extracts of <i>Psidiumcattleianum</i> Leaves.	<i>International Journal of Scientific Research in Biological Sciences.</i>	7(2): 128-133	2347-7520	1.013.	Google Scholar, Index Copernicus, SCOPUS

2020	Ilakkiya, V., Kaviyand, and V. Roopavathy, J. ...	Analysis of Phytochemical screening and Antibacterial activity of Psidium Quajava	<i>International Journal of Research and Analytical Reviews.</i>	7(2). 532 - 536.	2348-1269	5.75	Scopus
2020	Roopavathy, J; Karpagam, B; Vigneshpriya, D	Effect of Ziziphus jujube leaf extract on kidney of freshwater fish, Oreochromis mossambicus.	<i>International journal of zoology and applied sciences</i>	5(4): 210-216.	2455 - 9571		Pubmed ISI
2020	Roopavathy, J, and Shiny A.	In vitro analysis of Antioxidant activity from Umbalachery cattle and Jersey Cow.	<i>International Journal of Multidisciplinary Education.</i>	9(4): 8 – 16	2455 - 9571	3.147	-
2020	Nandana M and Dr.J.Roopavathy..	A Survey on Diversity and Interaction of Arthropoda Communities Areas at Kozhikode District, Kerala and Coimbatore District, Tamil Nadu.	<i>International Journal of Innovative Science, Engineering & Technology.</i>	7 (4): 32 – 41.	2348 - 7968	6.72	Scopus
2020	Roopavathy J and Nandana P.K..	Effects of Methyl Parathion on Histology of Gill on Freshwater Fish, Oreochromis Mossambicus.	<i>International Journal Of Advanced Research In Medical & Pharmaceutical Sciences.</i>	5(4) 1 – 4	2455 - 9571	3.147	-
2020	J.Roopavathy and Shiny A..	In Vitro Analysis of Nutritional Compositions of Milk From Umbalacheri And Jersey Cow.	<i>International Journal Of Advanced Research In Medical & Pharmaceutical Sciences.</i>	5 (11). 1 – 4	2455 - 9571		-
2020	Roopavathy, J	Effect Of Ziziphus Jujube Leaf Extract On Kidney Of Freshwater Fish, Oreochromis Mossambicus.	<i>International Journal Of Zoology And Applied Biosciences.</i>	5 (4). 210 – 216			-
2021	MA Jothi Rajan, and M Arul Sheeba Rani	Commentary. Influential ethical aspects of Covid19 in multi-dimensions.	<i>Journal of Applied Biotechnology and Bioengineering</i>	Applied Biotechnology Bioeng.;8 (1)	33-34		

2020	Lasitha. K & Dr. Sr. M Arul Sheeba Rani	Exploration of the impact in soil properties based on the annual litter fall under the selected tree species in selected Urban area.	<i>International Journal of Multidisciplinary Educational Research (IJMER)</i>	514 Vol. 9, Issue- No. 11(I).	48-61	Impact factor –6.	Scopus Id- A2B96D3ACF3F EA2A).
2020	Lasitha K. & Dr. Sr. M Arul Sheeba Rani	Comparative study on the improvement in selected soil parameters by the plotted land trees in Bengaluru, Karnataka.	<i>International Journal of Current Research in Multidisciplinary (IJCRM)</i>	Vol. 5, Issue- No. 4, April	28-34	Impact Factor: 7.639,	
2020	K. Lasitha and M. Arul Sheeba Rani	A Short Note on COVID-19 (Corona Virus).	<i>Novel International Journal of Science & Technology. New Swertia Publication, Pondicherry,</i>	India. Vol.1 (1):	15-16		
2020	Kavimalar.S, ¹ , Surajit Das ² , Saradha. M ¹ , and Arul Sheeba Rani ¹ . M,	Studies on Characterization of Biofilm associated EPS of Pseudomonas aureginosa and its interaction with the organic and inorganic pollutants.	<i>Journal of Globalization (IGB).</i>	Volume- 9, Number-4,	6974 - 6982	Impact factor: 1.363.	
Chemistry							
March 2020	D.Abinaya and P.Dhivya	Synthesis Of Marine Vertebrate Mediated Metal Nano Particles And Evaluation Of Its Catalytic Efficacy In Organic Transformation	Journal Of Interdisciplinary Cycle Research	Vol. XII, Issue III, Page 932-940	0022-1945	SJ-IF: 6.2	UGC CARE Group II Journal
March 2020	Brito John. C and Dr. P.Dhivya	Design, Synthesis And Cytotoxic Evaluation Of Green Synthesized Metal Oxide Nanoparticles	Journal Of Interdisciplinary Cycle Research	Vol. XII, Issue III, Page 1121-1130,	0022-1945	SJ-IF: 6.2	UGC CARE Group II Journal
2020	Anandhi.K and Dr. Dhivya .P	Synthesis Of Prospective Starch Base Biodegradable Plastics From Renewable Resources.	Compliance Engineering Journal,	Vol. 11 Issue (3), Page 407-417	0898-3577,	SJ-IF: 6.2	UGC CARE Group II Journal

March 2020	Sowburnika. T.R And Dr. P.Dhivya	Evaluation Of Phytochemical Constituents Of Costus Igneus And A Green Synthesis Of Metal Nanoparticles.,	Journal Of Engineering Sciences,	Volume 11 Issue 3, Page 556-560,	0377- 9254	IF: 2.753	UGC CARE Group II Journal
March 2020	J. Johncy Caroline &C.Subha	An Efficient Synthetic Pathway To Arrive At Polymers With Triazole Moiety	Journal Of Interdisciplinary Cycle Research	Vol XII Vol. IIIPage: 977- 981	0022- 1945.	6.2	UGC CARE Group II Journal
March 2020	Magedalien.S, Johncy Caroline.J	Green Synthesis And Characterization Of Copper Nanoparticles Using <i>Achyranthes Aspera</i> Leaf Extract and Their Biological Activities.	Journal Of Engineering Sciences	Vol 11, Issue 3 Pages: 535 – 539	0377- 9254	1.963	
April 2020	Janani.A Anitha Christy. P	Effect of Phytochemical Constituents of <i>Achyranthes Aspera</i> Linn Leaf and Stem Extracts in Antimicrobial Activity	International Journal for Research in Applied Science & Engineering Technology	Vol. 8 Issue IV	2321 - 9653	7.429	
October 2020	Chellam Subha, Alexander Reni Joice Ganesan Tharani and Mahimai Raj Leena Rexiline	Synthehsis and Characterization of New Aromatic Polyesters with Different Oxidazole	Journal of Advanced ScientificResearch		0976 –9595		UGC CARE Journal

Book Publication by Faculty

Department	Year	Name of the Faculty	Name of the Book	IBBN/ISSN
Chemistry	2020	Dr. N. Gunavathy & Dr. P. Dhivya	Personal and Home Care Products	ISBN: 978-81-945441-5-9
	2020	Dr.K.Anbarasi	Role of Chemistry in Everyday Life	ISBN:978-93-5426-099-5
	2021	Dr. P. Dhivya	Chemistry for Chemist	ISBN: 978-81-948129-6-8
	2021	Dr.K.Anbarasi	Nobel Laureates in Chemistry	ISBN: 978-93-5445-748-7

PUBLICATION BY THE FACULTY IN BOOK CHAPTER

Department	Name of the Faculty	Title of the Paper	Name of the Journal	Published by	Publication Details
Chemistry	Dr.N.Gunavathy N.Suganya Kavitha.V	Experimental and Computational Investigation on <i>Delonix Elata</i> leaf Extract as Corrosion Inhibitor for Mild steel in Acid Medium	Research Methodology Volume 1	AkiNiK Publication New Delhi	Chapter 3 Edition 1 ISBN 978-93-90541-08-9 Book DOI https://doi.org/10.22271/ed.book.994 Page 25 – 36 2020
Botany	Dr. M. Saradha	<i>Research Trends in Medicinal Plant Sciences.</i>		Akinik publication, New Delhi.	Chapter 3 Edition 1 ISBN 978-93-90541-08-9 Book DOI https://doi.org/10.22271/ed.book.994 Page No:15-26

Number of students admitted: All Females

Department	Period	Year	SC	ST	OBC	GEN	Total
Zoology	2020-21	I year	17	1	21	2	41
		II year	18	0	25	1	44
		III year	18	1	22	2	43
Chemistry	2020-21	I year	5	-	23	1	29
		II year	6	-	24	-	30
		III year	8	-	24	-	32
Botany	2020-21	I year	8	-	16	1	25
		II year	5	-	28	-	33
		III year	13	-	26	3	42

No of students passing out in %

Department	Year	No of students appeared	No of students cleared	Pass%
Zoology	2020-21	40	38	95.00
		43	41	95.34
		43	43	100.00
Chemistry	2020-21	28	25	89.29
		30	30	100
		32	30	93.75
Botany	2020-21	25	23	92
		33	27	82
		41	40	96

Drop out rate of students

Department	Period	Year	Total no of students	No of students dropped out	Drop out rate %
Zoology	2020-21	I year	41	1	2.43
		II year	44	0	0
		III year	43	0	0
Chemistry	2020-21	I year	29	5	14.71
		II year	30	0	0
		III year	33	1	3.03
Botany	2020-21	I year	26	1	3.8
		II year	34	1	2.9
		III year	42	1	2.3

No of students opting for M.Sc

Department	Year	Total no of students	No of students opting for M.Sc
Zoology	2020-21	43	18
Chemistry	2020-21	33	16
Botany	2020-21	42	12

Average marks obtained

Department	Year	Average marks Obtained in %
Zoology	I year	71.32
	II year	71.25
	III year	68.60
Chemistry	I year	71.94
	II year	72.05
	III year	67.96
Botany	I year	52
	II year	55
	III year	58

SELF EVALUATION

Only 50% of the objectives were realized due to lock down,

Guest lectures, competitions and seminars were organized. Workshops, training programmes and field / industrial visits were unable to be accomplished.