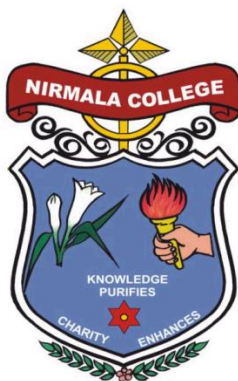


**PROGRESS REPORT BY COLLEGES  
SUPPORTED UNDER THE STAR COLLEGE SCHEME**

**(BT/HRD/11/019/2012)**

**(2021 – 2022)**

**SUBMITTED TO  
DEPARTMENT OF BIOTECHNOLOGY  
GOVERNMENT OF INDIA**



**NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)**

**Reaccredited with 'A' Grade by NAAC in the 3<sup>rd</sup> 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 2022**



## **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 22<sup>nd</sup> and 23<sup>rd</sup> 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. **Assessment duration** : 2021-2022 Duration in years: 1 year

4. **Details of Departments Supported**

Sl. No.	Name of the Department	Courses (B.Sc./M.Sc./PG Diploma, certificate etc offered	Regular Faculty Members	
			Total	
			With PhD	Without PhD
1	Zoology	B.Sc., Zoology (Aided) M.Sc., Zoology (Self Financing) M. Phil Zoology Ph. D Zoology <b>COP in Vermitechnology – (UGC Funded)</b> Certificate course Diploma course Advanced Diploma course	9	-
2	Botany	B.Sc., Botany (Aided) M.Sc., Botany (Self Financing) M.Phil Botany Ph.D Botany <b>Innovative Course</b> M.Sc. Bioinformatics-UGC <b>Sponsored</b>	9	-

		Floriculture and Bonsai- <b>UGC – COP</b> Medicinal Botany- <b>UGC - COP</b>		
3	Chemistry	B.Sc., Chemistry (Aided) M.Sc., Chemistry (Self-Financing) M.Phil and Ph.D. (Self-Financing)	6	3

5. Number and Date of Advisory Committee Meeting: 17.02.2021

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

Zoology	<ol style="list-style-type: none"> <li>1. Increased Laboratory resources and practical techniques on an individualized basis have attracted more number of students for PG programmes and subsequent research.</li> <li>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.</li> <li>3. Number of students taking up National/State level competitive exams has increased.</li> <li>4. Provision of Recurring amount has helped the department to sustain all the activities in a dynamic manner.</li> <li>5. Group projects have held the scientific temper of young minds. Opportunity to present and publish their papers at the UG level.</li> <li>6. Extensive community and extension activities from lab to land has been executed</li> </ol>
Botany	<ol style="list-style-type: none"> <li>1. Organizing hands on training, workshops, guest lectures, National and International seminars and Conferences provides an opportunity to pursue for higher studies.</li> <li>2. Group projects enhance new research inventions in UG level and help them to present and publish papers.</li> <li>3. Extension activities and community services from lab to land has been endorsed.</li> </ol>

	<p>4. Infrastructure facilities improved the quality of teaching and individual hands on experience to the students.</p> <p>5. By attending Internships, supports the students to augment knowledge in various features of Molecular &amp; Biotechnological techniques, Genetics, Taxonomy and microbiological procedures.</p>
Chemistry	<p>1. Books purchased under DBT are used for Knowledge enhancement of the students and as a reference for Writing research proposals, internships and projects.</p> <p>2. Industrial visits, Institute visits and field trip facilitated the students to have experiential learning and deep insight to the subject.</p> <p>3. Workshop on Cyclic Voltammetry and Molecular Analysis using Software Tools aided the students to operate the instruments and interpret the results for their Project and research Work. From the Hands on training programs on Graphic designing, the students gained Skill in designing Invitations and certificates by themselves for all departmental activities.</p> <p>4. Eminent Resource Persons from various institutes were invited for the International conferences and Invited Lectures in specialized fields organized under DBT fund increased the interest of students to pursue higher studies and Research Programs. In addition to that, students learnt the latest developments in the subject.</p> <p>5. Procurement of Glass wares and Chemicals enabled the students to carry out the experiments individually, which helped them to develop their practical Skills and successfully complete their Project work.</p>

#### 7. Any novel aspect introduced or planning to introduce during the scheme duration

Department	Novel Aspect
Zoology	<p>1) <b>Vermicompost unit:</b> The department converts organic waste (leaf litter from the campus and vegetable waste) into rich vermicompost. The vermicompost unit has three tanks which generates around 2400 kg vermicompost each year. Public, staff, students and farmers are regular customers of the department.</p> <p>2) <b>Bioinformatic Tools:</b> The department has organized a number of workshops focusing on Bioinformatics. Resource persons were drawn from different universities to give students “Hands on in Bioinformatics Tools - Auto Dock, Pi Mol, Chem sketch, Pub chem., EDB, Drug Bank, Pass, Mol soft, Oncomine, CAS Viewer, Array Express, TCGA.</p>

Botany	<p>1) <b>Mushroom Cultivation</b> (Cultivation of Oyster mushrooms) Mushrooms are important for different aspects such as Health, Food, and cultivation. Mushrooms are excellent food with taste, aroma and high quality, and nutrients. It is high in protein and phosphorus. Minerals like sodium and potassium, vitamin B (thymine, riboflavin), vitamin C, vitamin K, carbohydrates, amino acids, and antibodies are resistant to some diseases.</p> <p>2) <b>Terrace Gardening</b> (production of organic vegetables) The students and faculty members of our College have taken up the initiative to construct a terrace garden to produce vegetables and promote greenery in the area. It gives direct access to fresh vegetables and fruits. It increases the oxygen production in air.</p>
Chemistry	<p>1) Installation of <b>Bio-Gas Plant</b> Biogas –The way of the future. A non-polluting source of energy generated from food waste which is used to provide heat or generate electricity and yields organic fertilizer as a byproduct.</p>

**8. Lessons learned/ difficulties faced/ suggestion if any, in implementation of the programme and utilization of DBT grant**

Lessons learnt	Difficulties faced	Suggestions
<p>DBT has given our students a holistic development. They have been exposed to multifarious guest lectures, workshops, training programs and exposure visits which have kept them well motivated and sustained and without any financial constraints.</p>	<p>Some years the grant is released at the end of the academic year. So the activities have to be postponed to the next academic year, after the necessary approval from DBT. This has also extended our period of duration since some years the grant has been sanctioned at the end of the academic year.</p>	<p>We would be happy if the grants are released at the beginning of the academic year.</p>

**9. Performance indicators**

Sl. No.	Department	Class	No. of students admitted During the academic year 2021 - 22				Total Strength	Drop outs in numbers
			SC	ST	OBC	G		
1	Zoology	I Year	11	0	19	1	31	1
		II Year	15	1	21	2	39	-
		III Year	16	0	24	1	41	-
2	Botany	I Year	7	0	16	2	25	-
		II Year	8	0	13	1	22	-
		III Year	12	0	15	2	29	-
3	Chemistry	I Year	6	0	15	1	22	4
		II Year	5	0	23	1	29	-
		III Year	6	0	24	0	30	-

#### A) NO. OF STUDENTS PASSING OUT (%)

Sl. No.	Department	Indicator	Class	Total No. of students	Total No. of students passed	Pass percentage	Average marks	No. of students opting for M. Sc (2020-21 batch)
1	Zoology	No. of students passing out (%)	I Year	31	29	96.67 %	67.7 %	9
			II Year	39	39	100 %	71.7 %	
			III Year	41	41	100 %	65.8 %	
2	Botany	No. of students passing out (%)	I Year	25	21	84%	65.2%	10
			II Year	22	14	64%	67.7%	
			III Year	29	29	100%	68.0%	
3	Chemistry	No. of students passing out (%)	I Year	23	23	100	74.3%	12
			II Year	29	28	89.6	63.8%	
			III Year	30	27	96.6	74.63%	

#### B) INDUSTRIAL VISITS/ EXPOSURE VISITS FOR THE STUDENTS

Department	Date	Industrial Visit/Exposure visit	No/. of Students and Class
Zoology	23.11.2021	Silk Reeling Unit, Kamachipuram, Coimbatore	31 students (I B. Sc Zoology)
	1.12.2021	Sericulture Unit, Udumalpet and Aquaculture visit to Aliyar	31 students (I B. Sc Zoology)
	24.03.2022	Institutional visit to Departments of Microbiology and Biotechnology, Hindustan college of Arts and Science	41 students (III B.Sc Zoology)



Botany	21.09.2021	Field Trip to Seerapalayam for Plant collection	28
	28.11.2021	Industrial Visit to Sri Sai Industry, Kangeyampalayam (Areca plate making, Handloom and Soap making Industries)	22
	10.12.2021	BSI Southern Circle, TNAU, Coimbatore	48
	10.12.2021	Botanical Garden, TNAU Coimbatore	25
Chemistry	20.11.2021	<b>Industrial Visit</b> Sri Venkateshwara Carbonic Gases Private Limited, Coimbatore	12 students (II B.Sc Chemistry) 8 students (III B.Sc Chemistry)
	10.12.2021	<b>Industrial Visit</b> Eco Pure Technologies Pvt. Ltd-Mangalam Common Effluent Treatment Plant, Tirupur	30 students (III BSc Chemistry)
	11.12.2021	<b>Field Visit</b> Salim Ali Centre for Ornithology and Natural History (SACON).	20 students (I B.Sc Chemistry)

### C) SUMMER TRAINING /WINTER TRAINING/INTERNSHIP

Department	Date	Topic	Resource Person	No. of participants
Zoology	18.05.2021 to 22.05.2021	Hands on training in “Basic Bioinformatics Tools and Techniques for Beginners”	Accent Techno Soft	41 (III B. Sc Zoology)
	24.05.2021 to 03.06.2021	Training Programme in “CorelDRAW”	CMT Academy, Coimbatore	40 (II B. Sc Zoology)
	01.12.2021 - 18.12.2021	Internship on “Training for Medical Laboratory”	Mr. G. Titus Babu, Bharathi Clinical Laboratory, Ganapathy Coimbatore	3

	01.12.2021 - 15.12.2021	Internship on "Microbiology and Molecular Biology Techniques"	Dr. R. Ragunathan, Centre for Bioscience and Nanoscience Research, Coimbatore	11
	01.12.2021 - 15.12.2021	Internship on "Training in Apiculture"	Mr. M. Thirugnana Sampantham, MVT Honey Bee Farm, Malai Manthripalayam, Sulur, Coimbatore	10
	01.12.2021 - 18.12.2021	Internship on "Training in Clinical Laboratory"	Mr. Abdul Rahaman, Star Diagnostic Centre, Paramakudi	2
	01.12.2021 - 20.12.2021	Internship on "Training on Diagnostic instrumentation"	Mr. P. Velusamy, Sanjeevi E.E.G Diagnostic Centre, Coimbatore	2
	02.12.2021 - 20.12.2021	Internship on "Sericulture"	Mr. Abdul Kafoor, Assistant Director of Sericulture, District Sericulture Centre, Coimbatore	10
Botany	29.10.2021 to 03.11.2021	Virtual Training Program on "Gene finding, Biomolecular Visualization and Protein Prediction methods"	V.J Biotech, Coimbatore	21
	08.12.2021 to 24.12.2021 (15 days)	Internship programme on Bioinformatics	Bio-Xplora, Coimbatore	22
Chemistry	01.12.2021 to 15.12.2021	Internship programme on " Food, Water and Soil Testing"	Alpha labs and technologies	6
	01.12.2021 to 15.12.2021	Internship programme on "Metal treatment and domestic cleaning"	Priyadarshini Chemicals	5

01.12.2021 to 15.12.2021	Internship programme on " Testing samples obtained by biopsy"	Nilgiri X ray and pathological laboratory.	2
01.12.2021 to 15.12.2021	Internship programme on " Rubber tape Manufacturing"	Merit Rubber Product	2
01.12.2021 to 15.12.2021	Internship programme on " Home care products, Water testing"	Synthesis Chemical Lab	2
01.12.2021 to 15.12.2021	Internship programme on " Testing blood samples"	G-BIO Laboratories Ravi Pathological Laboratory Pothigai Clinical Lab Suriya Lab	4
01.12.2021 to 15.12.2021	Internship programme on " Instruments used in nanochemistry & chemistry related practicals and instruments"	GCT, Coimbatore	1
01.12.2021 to 15.12.2021	Internship programme on " Life Saving Drugs"	Deepika Bio Ethicals	1
01.12.2021 to 15.12.2021	Internship programme on " Clinical pathology, biochemistry lab and drug chemistry"	Sri Krishna Child Care Center	2
06.12.2021 to 20.12.2021	Internship programme on "Sugar manufacturers and sugar testing"	Sakthi sugars limited	1

	08.12.2021 to 22.12.2021	Internship programme on “Testing sample”	Quality care lab	1
	01.12.2021 to 15.12.2021	Internship programme on “Manufacturing of Magnesium Sulphate”	Abirami Chemicals	1
	06.12.2021 to 20.12.2021	Internship programme on “Basic Biochemical testing and Laboratory Principles”	Best medical lab	1

#### D) TRAINING PROGRAMME FOR STUDENTS

Department	Date	Training	Resource persons	No of participants
Zoology	18.05.2021 - 20.05.2021	Workshop on “Environmental Biology and Developmental Biology”	Dr. R. Ragunathan, Centre for Bioscience and Nanoscience Research (CBNR), Coimbatore	39 (II B. Sc Zoology)
	12.05.2021 - 15.05.2021	Workshop on “Biochemistry, Molecular biology, Biotechnology and Immunology”	Dr. R. Ragunathan, Centre for Bioscience and Nanoscience Research (CBNR), Coimbatore	39 (II B. Sc Zoology)
	29.05.21 to 31.08.21	Diploma Course on “Medical Coding”	Mr.S.Syed Samiullah Head Operations 67-1, Kannabiran Nagar, KovilMedu, Coimbatore – 641 025	17
	04.06.2021	<b>Workshop on “Incubation centers and Start ups for Life sciences”</b> Bioentrepreneurship in India	Mr. Piyush Padmanabhan, CEO, Co- founder, Director, Next Big Innovation Labs, Bangalore  Mr. Chriswin Saimon, Scientist, Next Big Innovation Labs, Bangalore	101

		Research in Deeptech Biotech Startups  Branding for startups	Ms. Anubha Mehra, Sr. Executive- Business and Marketing, Next Big Innovation Labs, Bangalore	
	18.08.2021 - 19.08.2021	Workshop on “Cancer Genomics”	BioXplora, Coimbatore	61
	16.11.2021	Workshop on “Entrepreneurship Opportunities in Apiculture”	Mr. Vivekannandan. A, Proprietor, Sree Gopala Honeybee farm, Divanspudur, Pollachi	66 students (I UG, & Nirmala College EDC Students) 9 staff members
	24.11.2021 - 25.11.2021	Workshop on “Artificial intelligence and its application in Biology”	Dr. Manisha Shukla Learn to upgrade, Delhi	38 students (III B. Sc Zoology) + 3 staff
	10.03.2022	Awareness/Training Programme on “Nuances of taking up NET/SLET Examination”	Dr. M. Poonkothai Associate Professor Department of Zoology, Avinashilingam Institute for Home Science and Higher Education for Women Coimbatore - 43	38 students (III B. Sc Zoology) + 9 staff
	16.03.2022	Awareness Programme on “Menstrual Hygiene and Health”	Mrs. Nithya Chaudhary CSR Exccutive, Unicharm India  Mrs. Anita Sukhwal, CSR Executive, Unicharm India	846 III UG Science students and 25 Staff members
<b>Botany</b>	12.07.2021 to 17.07.2021	International Virtual Training on the Title “Women Entrepreneur and Women empowerment.”	1. Mr. Vincent, Environmental Coimbatore. 2. Dr.S.Kathiravan, Assistant Professor Department of Biochemistry, Dr. N. G. P Arts and Science College, Coimbatore 3. Mr. Ravi Namberi, Entrepreneur Maniyoor Vadakara, Calicut 4. Mr.M.Mariappan, Guest Faculty, American College Madurai	95

			<p>5.Mr.S.P.Vijay Prabakar, Winner Leaf medicated oil and Products, Coimbatore</p> <p>6. Dr. A. Kalyana Sundaram, Associate Professor, Department of Agricultural Entomology, TNAU, Trichy</p> <p>7. Dr. K. Suresh Babu, Agrl. Supervisor in Dept. of Vegetable Science, Horticulture College and research Institute, TNAU, Coimbatore.</p> <p>8. Mr.Ravichandran, Founder, ARVI Aromotherapy Center, Coimbatore.</p> <p>9. Dr.R.Mary Josephine, Retd. Associate Professor &amp; Head, Dean of Academics, Department of Botany, Nirmala College for Women,Coimbatore.</p>	
07.08.2021 to 09.08.2021	Workshop on “Backyard cultivation of Blue Green alga Spirulina as a source of food supplement, feed and nutraceuticals.”	Dr. Maya Subramani, Chief Scientist,Centre for Algal iotechnology,Peace People organization,Trivandrum Regional Office Kerala	85	
23.08.2021 to 27.08.2021	Workshop on “Content Management using Word Press”	Mr. Ebinezer Yessian, Solution Architech, Expleo Solutions Limited, Chennai	90	
13.09.2021	Workshop on “Drug Design & Discovery”	Mr.M.Santhosh, Bioinformatics Analyst, Bioexplora, Coimbatore	85	
04.10.2021 to 05.10.2021	Hands on Training on “In-Silico Docking Studies”	Dr. Sivasankari .S Assistant Professor & Head Dept of Bioinformatics , Nirmala college for Women Redfields, Coimbatore-18	90	
23.11.2021	Hands on Training on “DNA Isolation and Gel Electrophoresis “	Dr. S.Vijayakumar, Research Co-Ordinator, V.J Biotech, Coimbatore	47	

	22.02.2022	Workshop on “Processing and Preservation of Fruits”	Mr. M. Mariappan Guest Faculty American College Madurai	40
	16.03.2022	Hands on Training on “Gene finding and gene prediction”	Dr. Sivasankari .S Assistant Professor & Head Dept of Bioinformatics , Nirmala college for Women Redfields, Coimbatore-18	23
<b>Chemistry</b>	29.05.21 to 31.08.21	Diploma Course on “Medical Coding”	Mr.S.SyedSamiullah Head Operations 67-1, Kannabiran Nagar, KovilMedu, Coimbatore – 641 025	25
	05.07.21 to 16.07.21	Entrepreneurial Development Training Programme on Graphic Designing	Mrs.Mythili.S Founder & Course Co- ordinator CMT Academy Coimbatore 641 045	59
	30.07.21 & 31.07.21	Workshop on “Molecular Analysis using Software Tools”	Dr.V.Kavitha Business Development Manager Imaco Automation MC Tech Coimbatore	79
	08.09.21	Entrepreneurial Development Training Programme on “ Vegetable Dyeing Process and Textile Printing”	Dr.N.Gunavathy Assistant Professor & Head Department of Chemistry Nirmala College for Women Coimbatore-18	29
	06.10.21	Career Guidance Workshop on “See You at the Top”	Mr. Grace Antony Rose. A Assistant Professor (SG) Department of Management Studies & Additional Incharge - International Affairs Sri Ramakrishna Engineering College Vattamalaipalayam NGGO Colony, Coimbatore – 641 022.	79
	15.12.21	Workshop on “Cyclic Voltammetry (Theory & Practicals)”	Dr.Viswanathan Mahalingam Founder Director QualiGrafe Author Services Pvt Ltd, Coimbatore	74

	22.01.22	Orientation Programme on Competitive Exam “Opportunities & Avenues in Science for Aspiring Birds”	Dr.D.Suresh Assistant Professor Department of Chemistry School of Chemical and Biotechnology SASTRA Deemed University Thanjavur	89
	22.02.22	Hands on Training on “Computational Structure Development of Molecular Compounds”	Dr.V.Kavitha Business Development Manager Imaco Automation MC Tech Coimbatore	110
	04.03.22	Hands-on Training for Employability on “Designing Fabrics using Screen Printing”	Dr. N. Gunavathy, Assistant Professor & Head, Department of Chemistry, Nirmala College for Women	17

**E) FDP/TRAINING PROGRAMME/WORKSHOP ORGANIZED BY THE DEPARTMENT FOR FACULTY**

Department	Date	FDP/Training Programme/Workshop	Resource persons	No of participants
Zoology	24.05.2021 - 03.06.2021	Training on Corel draw	CMT Academy and Dept. of Zoology, Nirmala College for Women, Coimbatore	2
	23.07.2021 - 24.07.2021	Workshop on “Molecular Docking”	Dr. S. Sivashankari, Assistant Professor, Department of Bioinformatics, Nirmala College for Women	68
	14.08.2021	National Workshop on “DNA Barcoding”	V. Vijay, Technical Consultant, BioXplora, Coimbatore	40
	23.11.2021	Hands on Training For Lab Assistants on “Good Laboratory Practices – Maintenance of Equipments & Preparation of Chemicals”	Dr. R. Ragunathan, Director & Research Supervisor, Centre for Bioscience and Nanoscience Research (CBNR), Coimbatore	8



Botany	04.12.2021	FDP - “Enforcement of Laboratory Safety training for Lab Assistants”	Mr. Dhanasekar Kandasamy Assistant Manager Environment Health Safety, Pricol Limited Coimbatore	20
	18.10.2021	How to Publish research article in SCI Journals	Dr.Rathinam Raja Auxiliary Investigator MED-Mediterranean Institute for Agriculture Environment and faculty of Science and Technology University of Algarve Campus de Gambelas Portugal	60
Chemistry	13.07.21	Faculty Development Programme on “Marching with Hope”	Mrs.Mayuri Arun Key Trainer CMT Academy Coimbatore – 641 045	126
	14.07.21 & 15.07.21	Faculty Development Programme on “Stress Management”	Dr.A. Sangamithra Professor Department of Economics Bharathiar University Coimbatore – 641 046	83
	08.01.22	FDP – Laboratory Assistants -Hands on Training “ Preparation of Laboratory Cleaning Material”	Ms.A. Mahalakshmi (Alumna 2018 – 2021 Batch) Proprietor - Anbu Chemical Works & Laboratory Assistant Soil Science Department, Horticultural & Research Institution for Women, Navalur Kuttappattu, Tiruchirappalli	11

**F) NO. OF NEW EXPERIMENTS INTRODUCED**

<b>Department</b>	<b>Class</b>	<b>List of new practical introduced</b>
<b>Zoology</b>	I-B.Sc	<p><b>Sericulture Practicals</b></p> <ol style="list-style-type: none"> <li>1. Estimation of Shell Ratio</li> <li>2. Estimation of Denier</li> <li>3. Estimation of Renditta</li> </ol>
	II-B.Sc	<ol style="list-style-type: none"> <li>1. Most probable number (for identification of quality testing of water)</li> <li>2. Detection of Coliphage from water / sewage</li> <li>3. Estimation of Total hardness and Iron in water samples</li> <li>4. Estimation of Calcium and Chloride in soil samples</li> <li>5. Deduction of E.coli and Salmonella from sewage</li> </ol>
	III-B.Sc	<ol style="list-style-type: none"> <li>1. Isolation of Genomic and Plasmid DNA</li> <li>2. Agarose Gel Electrophoresis</li> <li>3. Separation of protein-SDS PAGE</li> <li>4. Isolation and Estimation of DNA/RNA from animal tissues</li> <li>5. Demonstration of Blotting techniques</li> </ol> <p><b>PARASITOLOGY</b></p> <ol style="list-style-type: none"> <li>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</li> <li>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</li> <li>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.</li> </ol> <p><b>WILD LIFE CONSERVATION AND MANAGEMENT</b></p> <ol style="list-style-type: none"> <li>1. Identification of flora, mammalian fauna, avian fauna, herpeto-fauna</li> <li>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</li> </ol>
<b>Botany</b>	I-B.Sc	<ol style="list-style-type: none"> <li>1. Individual Experiment - Water quality test using water sample collected from various ponds in and around Coimbatore District</li> <li>2. Demonstration on Algal culture.</li> </ol>
	II-B.Sc	<ol style="list-style-type: none"> <li>1. Microtome sectioning and preparation of permanent slide.</li> <li>2. Anatomy – Permanent slide preparation</li> </ol>
	III-B.Sc	<ol style="list-style-type: none"> <li>1. Demonstration of HPLC, Blotting techniques, PCR &amp; RT PCR.</li> <li>2. Isolation of DNA</li> <li>3. Demonstration on milky and Oyster mushroom production.</li> <li>4. Gram staining technique to identify Bacteria.</li> </ol>

<b>Chemistry</b>	I B.Sc	<ol style="list-style-type: none"> <li>1. Water Analysis</li> <li>2. Soil Analysis</li> <li>3. Estimation of P<sup>H</sup> and turbidity of water samples</li> <li>4. Estimation of Hardness and Total Dissolved Solids(TDS) of Water Samples</li> <li>5. Qualitative Analysis of Waste Water Effluents from Various Laboratory</li> </ol>
	II B.Sc	<ol style="list-style-type: none"> <li>1. Colorimetric Estimation</li> <li>2. Chromatographic Experiments</li> <li>3. Estimation of Acetic acid in Vinegar, alkali content in commercial antacid sample</li> <li>4. Colorimetric Estimation of Copper ion.</li> <li>5. Detection of adulterants in food</li> <li>6. Estimation of Citric Acid Content in Natural Fruit Juices</li> <li>7. Introducing Thin Layer Chromatography : Preparation, Measuring R<sub>f</sub> Values</li> <li>8. Application of TLC for Qualitative Analysis of Various Compounds</li> </ol>
	III B.SC	<ol style="list-style-type: none"> <li>1. Potentiometric Titration (Acid Base)</li> <li>2. Estimation of Na and K ions using flame photometry</li> <li>3. Estimation of Metal Ion using EDTA by Complexometric Method</li> <li>4. Determination of Phytochemical Constituents present in Various Plant Parts</li> </ol>

**G) PUBLICATIONS (SCOPUS INDEXED)/PATENTS, IF ANY**

Department	Month & Year	Name of the faculty	Topic	Name of the Journal	Vol No, Issue No, Pg No	ISSN	Impact factor	Indexing Details
Zoology	Nov' 2021	Nimmy MV., Arunkumar M., Kiruthika S and <b>Pawlin Vasanthi Joseph</b>	Assessment of seasonal variation in water quality parameters and water quality index (WQI) of Chakkamkandam lake, Kerala, India	NOVIY MIR Research Journal	6 (11): 1-23	ISSN: 0130-7673	6.1	UGC-CARE Approved (Group II) Journal, Web Of Science, Google Scholar, Crossref
	Dec' 2021	Rosmin MT and <b>Pawlin Vasanthi Joseph</b>	Phytochemical screening and antioxidant capacity present in the fruits of <i>Garcinia gummi gutta</i> (L.) Roxb and <i>Solanum betaceum</i> in various solvent extracts	Journal of Botanical Society of Bengal.	75(2): 48-62	ISSN: 0971-2976	-	Indexed in UGC CARE List
	Apr' 2021	Mercy. M and <b>Dr.Sr.G.S.Mary Fabiola</b>	Seasonal Variation Of Heavy Metal Concentration In Water Samples From Different Fresh Water Bodies In And Around Coimbatore District	International Journal of Creative Research Thoughts	9(4): 5598-5604	ISSN: 2320-2882	7.94	UGC
	Apr' 2021	Sasikalarani.W, <b>Dr.Sr.G.S.Mary Fabiola</b>	Larvicidal and adulticidal activities of green synthesized AgNps and AuNps from <i>Annona</i>	Aegaeum journal	9(4): 383-394	ISSN: 0776-3808	6.1	UGC

Zoology			<i>squamosa</i> leaf extract against dengue vectore, <i>Aedes aegypti</i>					
	Apr' 2021	Sasikalarani.W and <b>Dr.Sr.G.S.Mary Fabiola</b>	The larvicidal activity of <i>Annona squamosa</i> , <i>Millingtonia hortensis</i> , <i>Crossandra infundibuliformis</i> leaf extract on <i>Aedes aegypti</i>	The International Journal of Analytical and Experimental Modal Analysis	13( 4): 1805-1818	ISSN: 0886-9367	6.3	UGC
	May' 2021	Aiswarya Vijayakumar and <b>Dr.Sr.G.S.Mary Fabiola</b>	Ichthyofaunal Diversity of Korapuzha River, Calicut, Kerala.	Journal of Emerging Technologies and Innovative Research	8(5): d476-d483	ISSN: 2349-5162	7.95	UGC
	Apr' 2021	Aiswarya.S, Jini P.K and <b>Dr. Rosaline Mary</b>	Insecticidal activity of <i>Adhatoda vasica</i> and <i>Ocimum sanctum</i> leaf powders against the red flour beetle <i>Tribolium castaneum</i> Herbst (Coleoptera: Tenebrionidae) in wheat	<i>International Journal of Multidisciplinary Educational Research</i>	10(4):120--126	ISSN: 2277-7881	6.514	UGC
	Apr' 2021	Jini P K, Aiswarya A, <b>Dr. Rosaline Mary</b>	The Insecticidal Efficacy of Leaf Powders of Medicinal Plants <i>Phyllanthus niruri</i> Linnaeus and <i>Azadirachta indica</i> A. Juss on the	<i>International Journal for Research in Applied Science &amp;</i>	9(4): 938 - 944	ISSN: 2321-9653	7.429	UGC

			management of the storage grain pest <i>Rhizopertha dominica</i> (Fabricius),(Coleoptera :Bostrichidae), found in <i>Triticum aestivum</i>	<i>Engineering Technology</i>				
Dec' 2021	P. Nithya., <b>Dr.B.Dhanalakshmi</b> and S. Vijayalakshmi	Diversity of Biofilm-Forming Bacteria in Chinnamuttom Harbor of Southeast India	Bioscience Biotechnology Research Communications	14 (4): 1793-1799	P-ISSN: 0974-6455 E-ISSN: 2321-4007	5.90	Indexed in SCOPUS	
Apr' 2021	Ilakkiya.V , <b>Dr.B.Dhanalakshmi</b> and V.Kaviya	Comparative study on Extraction, Physico Chemical Properties and Antibacterial activity of Chitosan from different crustacean shell wastes.	International Journal of Creative Research Thoughts	9(4): 4682-4691	ISSN: 2320-2882	7.97	Indexed in UGC CARE	
Apr' 2021	Ilakkiya.V , <b>Dr.B.Dhanalakshmi</b> and V.Kaviya	Comparative Study of Antioxidant Activity and Phytochemical Characterization <i>Inportula caoleracea</i> and <i>Portulaca grandiflora</i>	International Journal of Recent Scientific Research	12-04 (B): 41490-41495	ISSN: 0976-3031	6.86	Indexed in UGC CARE	
Jan' 2022	<b>Dr. Sajani Jose</b> and Nimmy	Insecticidal activity of an indigenous plant of Kerala against IV instar larvae of <i>Helicoverpa armigera</i> (Hübner)	International Journal of Entomology Research.	7(1): 89-92	ISSN: 2455-4758	8	Web of Science, Indian Citation Index	

Zoology	Feb' 2022	<b>Dr. Sajani Jose</b> and Nimmy	GC-MS Analysis of Bioactive Compounds from Methanol Leaf Extract of <i>Gliricidia sepium</i>	<i>NOVIY MIR Research Journal.</i>	7(2): 7-14	ISSN: 0130-7673	6.1	UGC-CARE Approved (Group II) Journal of Web of Science, Google Scholar, Crossref
	June' 2021	Sneha Ganga ND and <b>Dr. Dhivya R</b>	A Survey on Diversity of Gastropod Shells Inhabited by Hermit Crabs in Dharmadam Coast, Kannur District, Kerala, India	European Journal of Biomedical and Pharmaceutical Science	8(6): 366-371	ISSN:2349-8870	6.044	UGC Approved Journal No: 44779. Google Scholar, Indian Citation Index, Index Copernicus.
	July' 2021	Athira PM and <b>Dr. Dhivya R</b>	An Observation on Diversity and Distribution of Odonates in the Selected Site of Kannur and Wayanad District, Kerala, India	Journal of Emerging Technologies and Innovative Research	8(7): 641 – 646	ISSN: 2349-5162	7.95	UGC Approved Journal No. 63975. Google Scholar, ResearcherID -Publons, ResearcherID Thomson Reuters, Publons

Zoology	Aug' 2021	Yuvanandhini V and <b>Dr. Dhivya R</b>	Phytochemical Screening and Evaluation of the Biocontrol Activity of Selected Leaf Extracts against the Rice Weevil, <i>Sitophilus oryzae</i>	Journal of Advanced Scientific Research	12(3): 255 - 260	ISSN: 0976-9595	0.567	UGC CARE list Journal, Google Scholar, Publons
	Nov' 2020	Shiny A. and <b>Dr.J.Roopavathy</b>	In Invitro Analysis of Nutritional Compositions of Milk From Umbalacheri And Jersey Cow.	International Journal Of Advanced Research In Medical & Pharmaceutic al Sciences.	5 (11): 1 – 4	ISSN: 2455 - 9571	3.147	Thomson Reuters resear cher  Google Scholar, Index Copernicus
	May' 2021	D. S. Sruthi and <b>Dr.J.Roopavathy</b>	A Comparative Study on the Assessment of Insect Species Composition in Rural and Urban Areas of Selected Districts in Kerala, India	International Journal of Innovative Research in Technology	ISSN:2349-6002	7(12): 359 – 364	4.363	UGC Approved, Google Scholar
	May' 2021	Ms. Anusha, C. C and <b>Dr.J.Roopavathy</b>	A Survey On The Species Composition of Decapod Crustaceans In	International Journal Of Creative	9(5): f173 - f183	ISSN: 2320-2882	7.97	UGC Approved, dexing In Google Scholar, Rese



Zoology			Dharmadam Coast, Kannur District, Kerala	Research Thoughts.				archerID- Publons, ResearcherID Thomson Reuters
	May' 2021	SR Sreelakshmi and <b>Dr.J.Roopavathy</b>	Comparison of Insects Species Composition in Natural, Semi-Natural and Man-Made Ecosystems at Kuttiady Village, Kozhikode District, Kerala, Southern India	Journal of Emerging Technologies and Innovative Research..	8(5): e43 - e51	ISSN: 2349- 5162	7.95	UGC Approved
	May' 2021	Shilpa, P and <b>Dr.J.Roopavathy</b>	Short-Term Assessment on the Species Composition of Marine Molluscan Fauna in Dharmadam Island, Kannur District, Kerala	International Journal for Research in Applied Science & Engineering Technology.	9 (5):828 – 834	ISSN: 2321- 9653	7.429	UGC Approved
	April' 2021	Sonia S and <b>Dr.J.Roopavathy</b>	Sustainable Production of Fish <i>Oreochromis mossambicus</i> and Green Gram <i>Vigna radiata</i> in Recirculating Aquaponics System	International Journal for Research in Applied Science & Engineering Technology	9 (4): 1129 –1135	ISSN: 2321- 9653	7.429	UGC Approved

	June' 2021	<b>Roopavathy, J</b> and M. Sukumaran	Effect of Sub-lethal Toxicity of Malathion on Respiratory Activity and Haematology of Common Edible Fish <i>Oreochromis mossambicus</i> (Peters, 1852)	Indian Journal of Natural Sciences	12(65): 30222- 30235	ISSN: 0976 – 0997	1.733	Web of Science
	June' 2021	<b>Roopavathy, J</b> and M. Sukumaran	Effect of Malathion Toxicity on the Histology of Commercial Important Freshwater Fish <i>Oreochromis mossambicus</i>	Indian Journal of Natural Sciences	12(65) : 30186 - 30198	ISSN: 0976 – 0997	1.733	Web of Science
	June' 2021	Jesma, J. and <b>Dr.J.Roopavathy</b>	Baseline Study on Species Composition of Coleopterans in A Rural Area of Karakkamala, Wayanad District, Kerala, Southern India	Indian Journal of Natural Sciences	12 (66): 31343 – 31343	ISSN: 0976 – 0997	1.733	Web of Science
	Sep'21	K. Nanthini Devi, P. Raju, P. Santhanam, S. Dinesh Kumar, N. Krishnaveni, <b>J. Roopavathy</b> and P. Perumal	Biodegradation of low-density polyethylene and polypropylene by microbes isolated from Vaigai River, Madurai, India.	Archives of Microbiology	203; 10: 6253 - 6265	ISSN: 0302- 8933	2.552	SCOPUS, SCI, SCIE, UGCCARE List

	Dec'21	P. Raju, P. Santhanam, S. Sonai Pandian, M. Divya, A. Arunkrishnan, K. Nanthini Devi, S. Ananth, <b>J.Roopavathy</b> and P. Perumal	Impact of polystyrene microplastics on major marine primary (phytoplankton) and secondary producers (copepod)	Archives of Microbiology	204; 1-12	0302-8933	2.552	SCOPUS, SCI, SCIE, UGCCARE List
<b>Botany</b>	July-December 2021	<b>Dr.J.Carolin Joe Rosario,</b> <b>Dr.Sr.M.Arul Sheeba Rani</b> and <b>Dr.Sincy Joseph</b>	Biological Evaluation and Methods of Cultivation practices of selected oyster mushroom using different substrates in Nirmala College Campus, Coimbatore, Tamil Nadu,	Bulletin of Pure and Applied Sciences	Vol.40 Issue (2) pp.63-69	0970 - 4612	6.9	UGC Care
	January 2022	<b>Dr.M.Saradha</b>	Medicinal plants and their traditional uses in local communities around Sivanmalai hills, Tiruppur District, tamilnadu, India	International Journal of Botany Studies	Vol.7 Issue (1): pp.270-276	2455-541X	8.00	Thomson Reuters, Web of Science
	January-June 2021	Theertha. M & <b>Dr. Sr. M. Arul Sheeba Rani</b>	In-Vitro Anti-Diabetic Studies and In-Vitro Anti- Inflammatory Activity in an Underutilised Plant	Bulletin of Pure and Applied Sciences	40 (B): 19-23	0970 - 4612	6.9	UGC Care

			Epiphyllumoxypetalum (DC.) Hawthorn Leaves	Section B – Botany				
January 2021	Lasitha. K and <b>Dr.Sr.M Arul Sheeba Rani</b>	A study of impacts, threats and solutions for urbanization causing environmental degradation and sustainability	Drugs and Cell Therapies in Haematology (DCTH).	Vol.10 Issue (1): pp.528-544	2281 - 4876	7.97	Web of Science	
September 2021	Lasitha. K and <b>Dr.Sr.M.Arul Sheeba Rani</b>	A study of decomposition dynamics of different leaf litter in tropical trees and its enhancement	International Journal of Botany Studies (IJBS).	Vol 6 Issue (5): pp.361-369	ISSN: 2455-541X,	5.12	Web of Science	
December 2021	Lasitha. K and <b>Dr.Sr.M.Arul Sheeba Rani</b>	A study on the impact of urbanization on air quality and the solution for sustainability	International Journal of Life Sciences and Research (IJLR)	Vol 3 Issue (2): pp.361-369	2321 - 7812	-	UGC Care	
February 2022	<b>Dr. L. Kousalya</b>	Synthetic Seed Production and Germplasm Conservation of <i>Enicostema axillare</i> (Lam.) raynal ssp. <i>littoralis</i> (Blume)	Current Applied Science and Technology	22:6	2586-9396	0.36	Scopus	

			raynal Using Nodal and Root Explants.					
January 2022	<b>Dr. L. Kousalya</b>	Evaluation of antioxidant and cytotoxicity activities of polyphenol extracted from brown seaweed <i>Sargassum tenerrimum</i> biomass	Biomass conversion and Biorefinery	Accepted & published	2190-6815	4.987	Scopus (Springer)	
March 2022	<b>Dr. L. Kousalya</b>	<u>Bioactive potential of invertase by yeast <i>Saccharomyces cerevisiae</i> from the honey bee gut: isolation and characterization</u>	Biomass conversion and Biorefinery	Accepted & published	-	4.987	Scopus (Springer)	
March 2022	<b>Dr.U.Danya</b>	A review on mitigation of Emerging Contaminants using in an aqueous environment using microbial Biomachines as sustainable tools:Progress and limitations	Journal of Water process Engineering	Vol.473, Pages 102712		5.487	Science direct (Elseiver)	

<b>Chemistry</b>	June. 2021	<b>Dhivya P, Caroline JJ</b>	A study on the effect on carbon nanomaterials as adsorbents of heavy metal ions	Journal of the Maharaja Sayajirao University of Baroda	55(1-6), 284-292	ISBN No. 0025-0422 (Print Only) 55(1-6), 284-292	-	UGC-Care
	August 2021	Gladiyarani.S <b>Dr.N.Gunavathy</b>	<i>Cereus Repandus</i> as an Inhibitor of Mild Steel Corrosion in Acid Media	International Journal of Innovative Science, Engineering & Technology IJSET	Vol. 8, Issue 8.	ISSN (online) 2348 – 7968	<b>6.72</b>	UGC approved Journal
	Sep-21	A. Shanmugapriya, G. Kalaiarasi,M. Ravi, H. A. Sparkes, <b>P. Kalaivani</b> and R. Prabhakaran	Palladium-mediated C–O bond activation of benzopyrone in 4-oxo-4H-chromone-3-carbaldehyde-4(N)-substituted thiosemicarbazone: synthesis, structure, nucleic acid/albumin interaction, DNA cleavage, antioxidant and cytotoxic studies	New Journal of Chemistry	2021,45, 20227-20240	1144-0546 (print); 1369-9261 (web)	<b>3.591</b>	Scopus (Royal Society of Chemistry)
	Oct-21	M.Sindhu, <b>P.Kalaivani,</b>	Coumarine based Cu(II) complex as chemosensor for	InorganicaChimica Acta	Vol. 526, 1 October	ISSN:0020-1693	<b>2.545</b>	Scopus (Elsevier)

		F.Dallemer, R.Prabhakaran	selective detection of l-threonine and l-asparagine		2021, 120525			
Oct-21		M.Sindhu, <b>P.Kalaivani</b> and R.Prabhakaran	Enhanced anticancer property of bio- organometallic nano composites: Design, characterization, and biological evaluation	Applied Organometallic Chemistry	Appl Organomet Chem. 2022; 36: e6488.	ISSN:109 9-0739	<b>4.105</b>	Scopus (Wiley online Library)
Nov 2021		<b>Caroline.J.J,</b> <b>Subha.C</b>	In silico molecular docking, admet and molecular dynamics studies on an efficient monomer for anti- breast cancer activity	International Journal of Biology ,pharmacy and Allied Science  IJBPAS, November,	Special Issue, 2021, 10(11: 273- 281	ISSN:227 7- 4998	<b>3.879</b>	Web of science
Nov. 2021		Mohammed Asif M, Sachingihar MD, Aquib Ahsan, Mohammed Iman Anees, <b>Dhivya P,</b> Pramathesh Mishra TN	Synthesise New Nanomaterial NCC and NCP for Deacidify Paper Materials	International Journal of Biology, Pharmacy and Allied Sciences	Special Issue, 10(11), 688- 699	ISSN No. 2277- 4998	<b>3.879</b>	Web of science
Dec-2021		Gladiyarani.S  <b>Dr.N.Gunavathy</b>	Inhibition Efficiency of Opuntia Cochenillifera Extract on the	Internatinal Journal of Creative Research	Vol.9  657-661  Dec.2021	ISSN: 2320- 2882	7.97	UGC approved

			Corrosion of Mild Steel in Acid Media	Thoughts (IJCRT)				
Jan- 2022	Stalin A, <b>Dhivya P</b> , Lin D, Feng Y, Ashraje AC, Gandhi MR, Kannan BS, Kandhasamy S, Reegan, AD, Cen Y	Synthesis, Molecular Docking and Mosquitocidal Efficacy of Lawsone and its Derivatives Against the Dengue Vector Aedes aegypti L. (Diptera: Culicidae)	Medicinal Chemistry	18(2), 170-180	E-ISSN: 1875-6638; Print ISSN: 1573-4064	2.745	Scopus	
Jan-22	M.Ranjani, <b>P.Kalaivani</b> , F.Dallemer, S.Selvakumar, T.Kalpana, R.Prabhakaran	Fluorescent Cu(II) complex as chemosensor for the detection of L-Aspartic acid with high selectivity and sensitivity	Inorganica Chimica Acta	Vol. 530, 24 Jan. 2022, 120683	ISSN:0020-1693	<b>2.545</b>	Scopus (Elsevier)	
November 2021	<b>C. Subha</b> , B. Pavithra and JophyVincent.V	In silico molecular docking and admet toxicity studies of polyesters containing oxadiazole moiety	International Journal of Biology, Pharmacy and Applied Sciences(Web of Science)	10(11): 1497-1509	ISSN No. 2277-4998	IF:1.709	Web of science	
November 2021	Deva Sagayam Annie Cathrien, <b>Dhivya P</b>	Synthesise and Characterization of Bioplastic derived from Curcubita maxima	The Journal of Oriental Research Madras	Nov, 54-63	ISBN No. 0022-3301 (Print Only)	-	UGC Care	



## H) BOOK PUBLICATION BY FACULTY

Department	Year	Name of the Faculty	Name of the Book	ISBN/ISSN
Zoology	2022	Sr.Dr.Mary Fabiola	A study on Butterfly species of four Lepidopteran families in selected study area, Nirmala College for Women	978-811-955907-0-4
	2022	Dr.Sr.Mary Fabiola	A sustainable approach towards the prospects of Marine technology	978-93-91387-36-5
	2022	Dr. Sajani Jose	Laboratory Manual for Zoology Post Graduates - III	978-93-5593-622-6
	2022	Dr. Sajani Jose	Laboratory Manual for Zoology Post Graduates - I	978-93-5620-100-2
	2022	Dr. B. Karpagam	Laboratory Manual for Zoology Post Graduates – II	978-93-5607-542-9
		Dr. B. Karpagam	Laboratory Manual for Zoology Post Graduates – IV	978-93-5593-615-8
	2021	Dr.J.Roopavathy	Effect of <i>Psidium guajava</i> Supplemented Diet on the Growth and Haematological Parameters of fish <i>Labeo rohita</i> . Lap Lambert Academic Publication	978-620-4-20662-2
	2021	Dr.J.Roopavathy	Dietary effect of <i>Ocimum santum</i> on rearing of fish <i>Labeo rohita</i> . Lap Lambert Academic Publication	978-620-4-71463-9

<b>Botany</b>	2021	Dr.U. Danya	Coronavum thavartheervugalum	14023/ISBN/2021/A
<b>Chemistry</b>	2021	Dr.K.Anbarasi	Phytochemistry: An Invitro and InVivo Investigation	978-93-5457-371-2
	2021	Dr.N.Gunavathy Dr. P. Dhivya	KatridaVendrida (Tamil)	978-81-950768-8-8
	2021	Mrs. Valli. S	TamizharAriviyal	978-93-5566-868-4
	2021	Dr.K.Anbarasi	Corrosion Inhibition and Industrial application potential of <i>Cucurbita maxima</i> on mild steel and aluminium in acid, alkali and aqueous media	978-93-5578-194-9
	2021	Dr.S.Kulandai Therese	Selected naming reaction in organic chemistry	978-93-92293-14-6
	2021	Dr. K. Anbarasi (Editor)	Creative Collection of Best  Short Stories	978-93-5578-949-5
	2022	Dr.N.Gunavathy	A Study of Emotional Intelligence and Academic Achievement of Students in Higher Education Institution	978-93-55-78-604-3

### I) BOOKS/BOOK CHAPTERS PUBLISHED BY THE STUDENTS

Department	Year	Name of the student	Name of the Book/ Book Chapter	IBBN/ISSN
Zoology	2022	Steffy Mary Thomas	Power of Women – Title of the Poem “The Resolute Women, Dead of Writes Publication: pp 14-15.	978-93-91153-19-9
Botany	-	-	-	-
Chemistry	Nov 2021	Dr.N.Gunavathy <b>Keziah Graceline J</b>	Marching with Hope for a Little Dream	978-93-55-66-827-1

### J) PUBLICATION BY THE FACULTY IN BOOK CHAPTERS

Department	Name of the Faculty	Title of the Paper	Name of the Journal	Published by	Publication Details
Zoology	-	-	-	-	-
Botany	-	-	-	-	-
Chemistry	Dr. P. Dhivya	Title of the Chapter - <b>Food Additives &amp; Packaging</b>	Textbook of Food Chemistry	AIB Saliha Publications Tamil Nadu.	978-81-950231-8-9

### K) TRAINING RECEIVED BY FACULTY

Department	Date	Training	No/. of faculty
Zoology	30.06.2021 to 30.07.2021	Innovation Ambassdor training (Foundation level)	1
	19.07.2021 - 21.07.2021	Training in Clown Fish Breeding organized by Jehovah Shamma Centre for Marine and Wildlife Research, Mudiveeranpattinam, Ramanadhapuram	1
	26.03.2022	Training Programme in “E-Resources in J-GATE”	1
	21.03.2022 - 26.03.2022	Training Programme in “Environmental Sustainability and Research Ethics”	1

	2021-2022	Online Faculty Development Programme attended by Faculty	55
Botany	09.03.2022-10.03.2022	Training in Data Analysis using SPSS	1
	07.03.2022-11.03.2022	Certificate course on “Green Campus, Energy and Environment Management Audits Jointly organized by Nature Science Foundation and Nehru Arts Science College, Coimbatore	2
		Online Faculty Development Programme attended by Faculty	3
Chemistry	18.06.2021 & 19.06.2021	Introduction to Molecular Modelling	1
		Online Faculty Development Programme attended by Faculty	29

Department	Date	Workshops	No/. of faculty
Zoology	22.04.2021-23.04.2021	Workshop on “Andragogy of online Teaching & Learning”, IQAC-Paramarsh Scheme, Nirmala College for Women, Coimbatore	3
	24.04. 2021	Workshop on NEP-“Implementation Imperatives for Higher Education System, IQAC-Paramarsh Scheme, Nirmala College for Women, Coimbatore	3
	19.05.2021	Virtual Workshop on “Academic Publications and Bibliometrics”, Department of Library, Nirmala College for Women, Coimbatore	5
	04.06.2021	Workshop on "A Venture into Incubation Centers and Startups for Life Sciences”, PG & Research Department of Zoology, Nirmala College for Women, Coimbatore in collaboration with Next Big Innovation Labs: 3D Bioprinting in India, Bangalore	9
	07.06.2021	International Workshop on “Food Safety and Food Biotechnology” organized School of Life Sciences (SLS), B.S. Abdur Rahman Crescent Institute of Science & Technology (BSACIST) in association with Hi Rise Food tech Lab	1
	10.06.2021 - 11.06.2021	National Workshop on “Universal Human Values”, IQAC , K. C. College of Engineering & Management Studies & Research, Thane	1
	16.06.2021	Practicalities in Student Support and Progression, IQAC-Paramarsh Scheme, Nirmala College for Women, Coimbatore	2

	19.06.2021	Online Workshop on “Patent Commercialization Methods and Strategy”, Patent Information Center, Francis Xavier Engineering College, Tirunelveli	2
	25.06. 2021	Online Workshop on “Strategies of IP Protection For Entrepreneurs”, Patent Information Center, Francis Xavier Engineering College, Tirunelveli	2
	28.06.2021	Best Practices and Evolving Benchmarks in Higher Education Institutions, IQAC-Paramarsh Scheme, Nirmala College for Women, Coimbatore	3
	22.07.2021 – 23.07.2021	Workshop on “ Research for Academic Excellence”, Department of English and other Foreign Languages, SRM Institute and Science and Technology, Chennai	1
	30.07.2021	Workshop on “Best Practices in Teaching Learning and Evaluation, IQAC, Nirmala college for women, Coimbatore under PARAMARSH Scheme	2
	18.09.2021	Training Workshop on “ Research article writing and plagiarism”, Department of Zoology and Biotechnology & IQAC, Govt. Girls PG College, Ujjain (MP)	1
	20.09.2021 - 22.09.2021	International Lecture Workshop on “Challenges & Issues in Coastal & Ocean Research”, Department of Marine Science, Bharathidasan University, Trichy under RUSA 2.0	1
<b>Botany</b>	03.02.2021 11.02.2021	National UGC STRIDE sponsored, “Environmental Sustainability and Research Ethics” Organized by Department of Food Science and Nutrition, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	1
	23.06.2021 to 30.06.2021	Professional Development Programme Organized by Rajapalayam Raju’s College, Rajapalayam	1
	11.07.2021 to 15.07.2021	Life skills and Wellness during Pandemic, Organized by AMET Business School	1
	14.09.2021 & 15.09.2021	“Impact of Research during Pandemic” UGC funded Paramarsh Scheme conducted by The Kaypeeyes College of Arts and Science,	1

		Kotagiri in association with Nirmala College for Women, Coimbatore	
	14.06.2021 to 19.06.2021	E – Content Skill Development :FDP – Workshop Organized by Department of Mathematics, Nirmala College for Women, Coimbatore	8
	08.03.2022 to 14.03.2022	“Future Perspectives in Biological Sciences” Department of Botany, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	2
	24.07.2021	Molecular Docking, Department of Zoology Nirmala College for Women, Coimbatore	1
<b>Chemistry</b>	16.06.2021	Workshop on Practicalities in Student support and Progression	1
	25.06.2021	Online workshop on "Strategies of IP Protection for Entrepreneurs"	1
	28.06.2021	Workshop on "Best Practices & Evolving Benchmarks in Higher Education Institutions"	2
	12.07.2021 & 13.07.2021	Workshop on "Tools for Exploring Chemistry"	1
	23.07.2021 & 24.07.2021	Molecular Docking	3
	27.07.2021 to 29.07.2021	Workshop on "Criteria III: Research, Innovation and Extension "	2
	30.07.2021	Workshop on "Best Practices in Teaching, Learning and Evaluation"	2
	11.01.22 - 13.01.22	Level 1 – Familiarization Workshop on – Indian Nanoelectronics users Programme – Idea to Innovation (INUP – i2i)	1
<b>Department</b>	<b>Date</b>	<b>Orientation Program</b>	<b>No/. of faculty</b>
Botany	-	-	-
Chemistry	-	-	-
<b>Department</b>	<b>Date</b>	<b>Refresher Course</b>	<b>No/. of faculty</b>
<b>Zoology</b>	-	-	-
Botany	10.11.2021 - 23.11.2021	Refresher Course in Biological Science	1
Chemistry	-	-	-

<b>Department</b>	<b>Date</b>	<b>Short Term Course</b>	<b>No/. of faculty</b>
Zoology	24.05.2021 - 03.06.2021	Short term course in “CorelDRAW” organized by CMT Academy and Dept. of Zoology, Nirmala College for Women, Coimbatore	2
Botany	31.05.2021 to 04.06.2021	Lead Auditor course on “Environment Management System, Green Campus Audit and Energy Audit”	1
Chemistry	21.06.21 to 06.07.21	Lords Institute of Engineering and Technology An Autonomous Institute, Hyderabad Topic:Enriching Pragmatic Pedagogy for the Emerging Teachers	1
	04.09.2021	CPD (Continuing Professional Development) for teachers a Royal Society of Chemistry online course on the topic “Developing and Using Models”	1
	01.10.21	Web of Science Academy Clarivate Topic “An Introduction to Peer Review”	1
	01.10.21	Web of Science Academy Clarivate Topic “Good Citation Behavior”	1
	21.10.21 to 30.10.21	Turnip Innovations, Kolkata, India “ Patent Analytics Course”	1
	18.11.21	Web of Science Academy Clarivate Topic “Reviewing in the Sciences”	1
	16.12.2021	American Chemical Society offered the course on “Foundations of Chemical Safety and Risk Management for Chemistry Students”	1
<b>Department</b>	<b>Date</b>	<b>Induction Program</b>	<b>No/. of faculty</b>
<b>Zoology</b>	-	-	-
Botany	-	-	-
Chemistry	-	-	-
<b>Department</b>	<b>Date</b>	<b>SWAYAM - NPTEL Course Detail</b>	<b>No/. of faculty</b>
Zoology	-	-	-
Botany	22.08.2021	Forest and its Management	4
	12.11.2021	Experimental Biotechnology	2
Chemistry	Jan. 22	Medicinal Chemistry	1
	12.11.2021	Fundamentals of Spectroscopy	1
	12.11.2021	Electrochemical Impedance Spectroscopy	1

**L) EXHIBITIONS/ SEMINARS/ TRAINING COURSES CONDUCTED**

Department	Date	Symposium/Seminar/workshop topic	Resource persons	Level	No. of participants
Zoology	24.06.2021	<p><b>Symposium on Perspectives of wildlife management in India</b></p> <p>Human- wildlife conflict and management in India.</p> <p>Development and Wildlife conservation perspectives from Anadaman and Nicobar islands</p> <p>Recovering Dugong population in India: challenges and way forward</p>	<p>Dr. C. Ramesh, Scientist C, Department of Population management capture and rehabilitation, Wildlife Institute of India, Dehradun, India</p> <p>Dr. Nehru Prabakaran, DST- INSPIRE Faculty, Wildlife Institute of India, Dehradun, India</p> <p>Dr. Anant Pande, Project Scientist, Indian Polar research Network, Wildlife Institute of India, Dehradun, India</p>	National	101
	17.05.2021	<p><b>Seminar on Waste Management Strategies in India</b></p> <p>Solid Waste Management in India</p>	<p>Dr. Sunil Kumar, Humboldt Senior Fellow, Senior Principal Scientist &amp; Head, Waste Reprocessing Division, National Environmental Engineering Research Institute, Maharashtra</p>	National	186



Zoology		<p>Wastewater recycling: Technologies, Laws &amp; Trends</p> <p>Plastic Waste Management: Strategies &amp; Technologies</p>	<p>Dr. M. Karthik, Principal Scientist, Environmental Impact &amp; Sustainability Division, National Environmental Engineering Research Institute, Nagpur, Maharashtra</p> <p>Dr. KP Bhuvana, Scientist, School of Product Validation and Testing &amp; Biopolymers, Department of Chemicals &amp; Petrochemicals, Ministry of Chemicals and Fertilizers, Govt. of India, TVK Industrial Estate, Chennai</p>		
	29.07.2021	<p><b>Seminar on Green Technology : Building a sustainable future</b> Recent trends in atmospheric and environment hazard waste into Energy production</p> <p>Recent advances in hydrogen production from renewable bioresources.</p>	<p>Dr. Bharath Govindan, Research Scientist, Dept. of Chemical Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE.</p> <p>Dr. Balamurugan Jayarama, Research Professor, Korea Advanced institute of Science and Technology, Daejeon, Republic of Korea.</p>	International	101

Zoology		Role of Microorganisms used in waste water treatment	Dr. Dennyson Savariraj, Research Professor, Electromaterials Laboratory, Dept. of Printed Electronics Engineering, Sunchon National University, Jeolla Nam Do, South Korea.		
	30.09.2021 - 01.10.2021	<p><b>Seminar on Aquaculture production: Advances and Constraints</b></p> <p>Overview of Aquaculture Production : Advances and Constraints</p> <p>Marine Ornaments: Trade, Culture and Conservation</p> <p>An overview of aqua feed formulation and processing</p>	<p>Dr. T.T. Ajith Kumar, Principal Scientist &amp; Scientist in-Charge, PMFGR Centre, National Bureau of Fish Genetic Resources, CMFRI Campus, Kochi, Kerala.</p> <p>Dr. S. Prakash, Scientist &amp; Fulbright – Nehru Fellow, Centre for Climatic Change Studies, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Chennai.</p> <p>Dr. K.P. Kumaraguru Vasagam, Principal Scientist, ICAR- Central Institute of Brackish water Aquaculture, Chennai</p>	National	126

Zoology		<p>Augmenting conservation with aquaculture: Unlocking the potential indigenous fish species for enhancing fish production in freshwater aquaculture</p> <p>Present status of emerging diseases in Indian Aquaculture</p> <p>Ornamental fish aquaculture sector – An overview</p>	<p>Dr. R. Charan, Scientist, PMFGR Centre, National Bureau of fish Genetic Resources, CMFRI Campus, Kochi, Kerala</p> <p>Dr. Arun Sudhagar, Scientist, ICAR- National Bureau of fish Genetic Resources, Kochi, Kerala</p> <p>Dr. K. Ramamoorthy, Associate Professor, C.A.S in Marine Biology, Faculty of Marine Sciences, Parangipettai</p>		
Botany	12.11.2021	<p>International Webinar “RNAi for Plant Biotechnology”</p>	<p>Prof.Dr.Jennifer Ann HariKrishna Genetics and Molecular Biology, Institute of Biological Sciences, Fakulti Sains Faculty of Science, University of Malaya, Kualalampur Malaysia-50603</p>	International	90
	23.02.2022 - 24.02.2022	<p>International Seminar on “Plant Sciences in the present Scenario”</p>	<p>Dr. J. M. Sasikumar Associate Professor, School of Biological Sciences and Biotechnology, College of Natural and Computational Sciences, Haramaya University, Ethiopia.</p>	International	

			<p>Title: Oxidative stress and Antioxidants.</p> <p>Dr. G. Parvatham Associate Professor, Retd., Department of Botany, Nirmala College for Women, Coimbatore. Title: Industrial applications of Horticulture</p> <p>Dr.S. Catharin Sara Assistant Professor and Head, PG and Research Department of Botany, Holy Cross College, Tiruchirappalli. Title: In-vitro and in- silico studies on Bioactive compounds of Pteridophytes</p>		90
Chemistry	19.07.21 & 20.07.21	<p>International Conference on “Smart &amp; Sustainable Developments in Materials &amp; Medicinal Chemistry”</p> <p>Sustainability in Energy Production</p>	<p>1. Dr.P. Prabunathan Assistant Professor Department of Chemistry PSG Institute of Technology &amp; Applied Research Coimbatore.</p> <p>2.Dr.Kulandaivel Sivasankar Post Doctoral Researcher Department of Chemistry</p>	International	98

		<p>Metal – Organic Frameworks &amp; their Applications</p> <p>Small Molecules Approaches of the Development of Anti-SARS-Cov-2 Drugs</p> <p>Heart Failure Drugs. A Medical Chemistry Perspective</p>	<p>National Taiwan Normal University, Taipei, Taiwan</p> <p>3.Dr.Thanigaimalai Pillaiyar Independent Group Leader Institute of Pharmacy Pharmaceutical/Medicinal Chemistry and Tuebingen Center for Academic Drug Discovery, Germany</p> <p>4.Dr.M.Manoj Assistant Professor (Senior Grade) Department of Chemistry PSG Institute of Technology &amp; Applied Research, Coimbatore</p>		
	22.10.21	<p>Webinar on “Individuality - Freedom Lived”</p>	<p>Rev. Sr.Antony Arul Selvi FSPM Alumna (2003 – 2006) BT Assistant Jayamkonda Matha Middle School Kumpakonam</p>	Regional	79

	24.01.22 & 25.01.22	<p>International Conference on “Pioneering Emerging Opportunities and Exploring New Realm in Chemical Sciences”</p> <p>Nanostructured Materials for Energy Conservation</p> <p>Nanostructured Materials for Electro Chemical Sensors Applications</p> <p>A Simple Perspectives Sugar (Sweet) Chemistry</p>	<p>1. Dr.P.Gnanaprakasam, Assistant Professor, Department of Electrochemistry Saveetha School of Engineering Saveetha Institute of Medical and Technical Sciences Thandalam, Chennai</p> <p>2.Dr.Periyasamy Sundaresan Post Doctoral Research Fellow, Department of Biomedical Engineering Chungnam National University, Daehak - royuseong - gu, Daejeon, South Korea</p> <p>3. Dr.T.Mohan Das Professor and Head Department of Chemistry, Central University of Tamil Nadu, Thiruvavur</p>	International	80
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		Career Opportunities & the Importance of IT	4. Mr.Jenovar X.H, Data Analyst, Birmingham, West Midlands, England, United Kingdom		
	27.01.22	Awareness Programme on “Human Rights – Most Used and Least Understood”	Mr.K.Arun Kumar MBA., M.Phil, (Ph.D) Assistant Professor and Head i/c Department of Management Studies Annai College of Arts and Science,Kovilacheri., Kumbakonam – 612 503	Regional	68

**M) BOOKS/JOURNALS SUBSCRIBED FROM GRANTS:**

<b>Department</b>	<b>List of Books</b>	<b>No. of copy</b>
<b>Zoology</b>	1. Animal Physiology and Biochemistry	1
	2. Biodiversity perception peril and preservation	1
	3. Biology of chordates	1
	4. Biology of non chordates	1
	5. Biology of invertebrates	1
	6. Cell and Molecular biology	1
	7. Essentials of nanotechnology	1
	8. Introduction to developmental biology	1
	9. Invertebrate Zoology	2
	10. Microbiology	1
	11. Organic evolution (Evolutionary biology)	1
	12. Practical microbiology	
	13. Stem cells in regenerative medicine	1
	14. Textbook of vertebrate zoology	1
	15. Wildlife and natural resource management	1
	16. Wildlife biology an Indian perspective	1
	17. Advanced textbook of biodiversity	1
	18. Genetics	1
	19. Cell and Molecular Biology	1
	20. Biochemistry	1
	21. The insects: Structure, Function & Biodiversity	2
	22. Research Methodology	2
	23. Nutrition science	2
	24. A textbook of Immunology	2



25. Dietetics	2
26. Vertebrates	2
27. Invertebrates	2
28. Ecology and environment	2
29. A textbook of microbiology	1
30. Cytology genetics and evolution	1
31. Biotechnology & genomics	1
32. A textbook of embryology (Developmental Zoology)	1
33. Organic Evolution	1
34. Fish and fisheries	1
35. A textbook of biotechnology	1
36. A textbook of physiology functional histology	1
37. Ecology	1
38. Nutrition and dietetics	1
39. Animal Biotechnology	1
40. Immunology	1
41. Biochemistry	1
42. Animal physiology	1
43. A textbook of bioinformatics	1
44. Chordate embryology	1
<b>Total</b>	<b>52</b>

<b>Botany</b>	1. Horticulture Principles And Practice	1
	2. Textbook Of Microbiology	1
	3. Microbiology	1
	4. Plant Systematics	1
	5. Microbiology	1
	6. Introduction To Plant Biotechnology	1
	7. Soil Fertility And Plant Nutrition	1
	8. Soil Microbiology	1
	9. Medicinal Plants	1
	10. Objective Horticulture	1
	11. Textbook Of Botany Vol - 11	1
	12. Food Microbiology	1
	13. Environmental Biotechnology	1
	14. Plant Biotechnology	1
	15. Mycology And Phytopathology	1
	16. Biofuels	1
	17. Economic Botany	1
	18. Cultivation Of Fruits Vegetables Floriculture	1
	19. Biophysics	1
	20. Flora Of Madras Presidency Set Of 3 Vols	10
<b>Total</b>	<b>29</b>	
<b>Chemistry</b>	1. ANE's Chemistry Active Series Steroids and Hormones	1
	2. ANE's Chemistry Active Series Terpenoids	1
	3. ANE's Chemistry Active Series Alkaloids	1
	4. Bioorganometallic Chemistry	1
	5. Chemistry of Natural Products	1
	6. Infrared Spectroscopy of molecules	1
	7. Medicinal Chemistry	1

8.	Organic Chemistry Vol-1	1
9.	Organic Chemistry Vol-2	1
10.	Organic Chemistry Vol-3	1
11.	Polymer Science a Textbook	1
12.	Organic Spectroscopy	1
13.	Organic Reactions and their Mechanisms	1
14.	Research Methodology and Scientific Writing	1
15.	Guide to Laboratory Safety and Microscale Organic Laboratory	1
16.	Handbook of Organic Analysis Qualitative and Quantitative	1
17.	Analytical Chemistry theory and Practice	1
18.	Application of Group theory in Chemistry	1
19.	Chemistry of Natural products Vol-1	1
20.	Chemistry of Natural products Vol-2	1
21.	Chemistry of Natural products Vol-3	1
22.	Medicinal Chemistry	1
23.	Name reactions a collection of detailed Mechanisms and Synthesis.	1
24.	Organic synthesis strategy and control	1
25.	Principles of Organic Synthesis	1
26.	Structure & Mechanism in organic Chemistry	1
27.	Text book of Organic Name reactions	1
28.	Understanding NMR Spectroscopy	1
29.	Advanced Organic Chemistry through Solved problems	1
30.	Insight into Green Chemistry	1
31.	Advanced Practical Medicinal Chemistry	1
32.	Bioinorganic Chemistry	1
33.	MCQ's in Organic Chemistry	1
34.	Medicinal Chemistry	1
35.	Nanotechnology	1
36.	Research Methods Tips and Techniques	2

	37. Molecular Modeling and Drug Design	2
	38. Problems in Physical Chemistry	2
	39. Green Chemistry	1
	40. Organometallic Chemistry	1
	<b>Total</b>	<b>43</b>

#### N) RECURRING EXPENDITURE

Department	Date	Recurring grant	Amount (Rs.)
Zoology	12.05.2021 – 14.05.2021	Workshop on “Molecular Biology and Biotechnology”	14350.00
	17.05.2021	National Seminar on “Waste Management Strategies in India”	9000.00
	18.05.2021 – 20.05.2021	Workshop on “Environmental and Developmental Biology”	14000.00
	18.05.2021 – 22.05.2021	Summer Training Program in “Bioinformatics”	16400.00
	22.05.2021 – 28.05.2021	Certificate course in “CorelDraw”	16000.00
	29.05.2021	Medical coding	17000.00
	04.06.2021	Workshop on “A Venture into Incubation Centers and Startups for Life Sciences”	9000.00
	14.06.2021	Guest Lecture on “Research Methods on Reef Restoration Process”	2000.00
	18.06.2021	Guest Lecture on “Monitoring Elephants”	2000.00
	24.06.2021	National Symposium on “Perspectives of Wildlife Management in India”	9000.00
	02.07.2021	Guest Lecture on “Butterfly biodiversity and conservation strategies”	2000.00
	17.07.2021	Guest Lecture on “Entrepreneur Opportunities in Live Feed Culture”	2000.00
	20.07.2021	Guest Lecture on “Mermaids: The Myth and Reality”	2000.00

23.07.2021 – 24.07.2021	Faculty Development Program on “Molecular Docking”	6000.00
29.07.2021	International Seminar on “Green Technology: Building a Sustainable Future	9000.00
01.08.2021	Brood boxes	5300.00
02.08.2021	Guest lecture “Role of freshwater wetlands in biodiversity conservation”	2000.00
10.08.2021	Guest lecture “Campus biodiversity as a model system to urban biodiversity”	2000.00
13.08.2021	Books	15453.00
14.08.2021	Workshop for faculty on “DNA Barcoding” - Accent Technosoft	4000.00
18.08.2021	Books	9932.00
18.08.2021 – 19.08.2021	Workshop on Cancer genomics” - Bioexplora	14000.00
21.08.2021	Webinar on “Research methodology”	2000.00
23.08.2021	Glasswares	22837.00
24.08.2021	Chemicals	7685.00
24.08.2021	Chemicals	2956.00
24.08.2021	Glasswares	6348.00
25.08.2021	Guest lecture on “Intellectual Property Rights”	2000.00
04.09.2021	Guest lecture on “Research and career scope in aquaculture	2000.00
17.09.2021	Guest lecture on “Environmental sustainability”	2000.00
22.09.2021	Guest lecture on “Hormones and Health”	2000.00
23.09.2021	Chemicals	2195.00
29.09.2021	Guest lecture on “Unique Marine Life”	2000.00
30.09.2021 – 01.10.2021	National seminar on “ Aquaculture Production: Advances and Constraints”	18000.00
12.10.2021	Guest Lecture on “A Journey through a Scientific Episode”	2000.00
18.10.2021	Student Projects	15515.00
18.10.2021	Video of museum – Accent technologies	7000.00
27.10.2021	Glasswares	35864.00
11.11.2021	Guest lecture on “Impact of climate change on marine organisms”	2000.00
16.11.2021	Workshop on “Entrepreneurship opportunities in Apiculture”	6000.00

	23.11.2021	Workshop on Good laboratory practices – Maintenance of equipments and preparation of chemicals”	4000.00
	24.11.2021 – 26.11.2021	Workshop on “Artificial Intelligence”	22400.00
	25.11.2021	Guest lecture on “The earth – A future planet without plastics”	2000.00
	26.11.2021	Guest lecture on “General techniques involved in phytochemical analysis	1000.00
	01.12.2021	Field visit to Sericulture Unit and Aquaculture Unit	15500.00
	01.12.2021 – 18.12.2021	II B.Sc Zoology Internship Programme	14000.00
	08.12.2021	Guest lecture on “Wetlands: Conservation and Management”	2000.00
	16.2.2021	Guest lecture on “Role of insects in agriculture”	2000.00
	19.01.2022	Guest lecture on “Molecular Biology and its clinical applications”	2000.00
	29.01.2022	Guest lecture on “Single use plastics”	2000.00
	28.01.2022	Webinar on “Get the Knack of UGC NET/SLET in Life Sciences	1491.00
		<b>TOTAL</b>	<b>3,91,226.00</b>
Botany	12.07.2021-17.07.2021	International virtual training on Women Entrepreneur and Women Empowerment	22000.00
	06.08.2021	Guest lecture on Sacred groves and their incomparable values	2000.00
	07.08.2021 to 09.08.2021	Online Workshop on “Backyard cultivation of Blue Green alga Spirulina as a source of food supplement, feed and nutraceuticals.”	6000.00
	10.08.2021	Medical coding	16000.00
	10.08.2021	Guest lecture on “Soil Biodiversity in Present Scenario	2000.00
	12.08.2021	Guest lecture on “Post Covid Health Care”	2000.00
	17.08.2021	Guest lecture on “Cloning Vectors”	2000.00
	16.08.2021	Guest lecture on “Navigating through the change.”	2000.00
	18.08.2021	Guest lecture on “Understanding Applications of Physics in biology”	2000.00
	23.08.2021-27.08.2021	Workshop on Content management using word press	10000.00

27.08.2021	Workshop on Drug Design and Discovery	6000.00
13.09.2021	Guest lecture on “Integration of Plant Biotechnology in conservation programs”	2000.00
14.09.2021	Books	25000.00
15.09.2021	Guest lecture on “Natural Dyeing practices in contemporary times”	2000.00
09.09.2021	Innovative practice	6160
16.09.2021	Chemicals	11981.00
21.09.2021	Field trip	3800.00
24.09.2021	Chemicals	61336.00
17.09.2021	Webinar- How to write a research proposal	2000.00
20.09.2021	Guest lecture on “Biopotential of Marine Algae”	2000.00
24.09.2021	Guest lecture on “ Bryophytes - a Birds eye view”	2000.00
27.09.2021	Guest lecture on “Advantage of Genomic and cDNA libraries in Plant Science”	2000.00
30.09.2021	Student induction programme	2000.00
01.10.2021	Guest lecture on “Tips and Tricks in Botany”	2000.00
28.09.2021	Chemicals and glasswares	29363
18.10.2021	FDP on How to publish research articles in Sci.journal	2000.00
30.09.2021	Glasswares	56572.00
01.11.2021	Group project	20000.00
01.11.2021	Student internship	22400
23.11.2021	Hands on Training on “DNA Isolation and Gel Electrophoresis “	5000.00
04.10.2021 - 05.10.2021	Hands on Training on “In-Silico Docking Studies”	5000.00
02.12.2021	Hands on Training on Mushroom Cultivation	3000.00
04.12.2021	Awareness Program on “Enforcement of Laboratory Safety training for Lab Assistants”	4000.00
29.01.2022	Chemicals and Glasswares	2478.00
29.01.2022	Chemicals and Glasswares	19816.00
26.01.2022	Webinar on “The cost of freedom “	2000.00

	16/02/2022	Hands on Training “Bonsai and its Techniques”	5000.00
	22.02.2022	Workshop on “Processing and Preservation of Fruits”	6000.00
	28.02.2022	Webinar on Intellectual Property Rights (IPR)	2000.00
	02.03.2022	Chemicals	9421.00
	23.02.2022, -24.02.2022	International Seminar on “Plant sciences in the present scenario”	6000.00
	03.03.2022	Webinar on Tips to crack UGC NET/SLET Exams	2000.00
	05.03.2022	Guest lecture on Molecular Biology	1673.00
		<b>Total</b>	<b>40000.00</b>
Chemistry	07.06.21	Webinar on “Drowning of Planet in Plastic Pollution Under the theme Reimagine, Recreate, Restore in commemoration with World Environmental Day (05.06.21)”	2000.00
	05.07.21 to 16.07.21	Entrepreneurial Development Training Programme on “ Graphic Designing”	17700.00
	13.07.21	Faculty Development Programme “Marching with Hope”	2000.00
	14.07.21 & 15.07.21	Faculty Development Programme “Stress Management”	4000.00
	16.07.21	Webinar on “Fight Against Corona 19 Viruses – A Perspective of Medicinal Chemistry”	2000.00
	19.07.21 & 20.07.21	International Conference on “Smart & Sustainable Developments in Materials & Medicinal Chemistry”	8000.00
	24.07.21	Webinar on “Chemistry in Our Daily Life”	2000.00
	30.07.21 & 31.07.21	Skill Development Workshop on “Molecular Analysis using Software Tools”	3000.00
	29.05.21 to 31.08.21	Certificate Course on “Medical Coding”	25000.00
	09.08.21 & 10.08.21	Guest Lecture on “Statistical Thermodynamics”	4000.00
	12.08.21	Orientation Programme on “ Bridge the Gap: Break the Barrier”	2000.00



		Theme “Transforming Food Systems: Youth Innovation for Human and Planetary Health” (1)	
13.08.21.		Career Oriented Guest Lecture on “Glimpses of Electrochemistry and Its Applications”	2000.00
26.08.21		Guest Lecture on “Proton NMR – Basic Principles & Applications Part 1”	2000.00
27.08.21		Guest Lecture on “Proton NMR – Basic Principles & Applications Part II”	2000.00
25.08.21 & 26.08.21		International Conference on “Accelerating Research on DNA: Current Trends & Future Directions”	5000.00
08.09.21		Entrepreneurial Development Training Programme on “Vegetable Dyeing Process and Textile Printing”	1500.00
16.09.21		Text Books (43)	25000.00
18.09.21.		Guest Lecture on “Basics of Computer and C Language”	2000.00
27.09.21		Guest Lecture on “Food Quality & Biotechnology in Food”	2000.00
29.09.21		Guest Lecture on “Intellectual Property Rights”	2000.00
06.10.21		Career Guidance Workshop on “See You at the Top”	2000.00
20.10.21		Webinar in commemoration with World Food Day (16.10.21) on “Anticancer Diet” under the theme - Safe Food Now for a Healthy Tomorrow.	3000.00
21.10.21		Guest Lecture on “Solid State Chemistry”	2000.00
22.10.21		Webinar on “Individuality - Freedom Lived!”	2000.00
23.10.21		International Webinar on “Nanomaterials – Small Science; Big Hopes” in commemoration with National Chemistry Week (October 17-23, 2021).	3000.00
20.11.21		Industrial Visit – Sri Venkateshwara Carbonic Gases Private Limited, Idikarai, Coimbatore	5000.00
22.11.21		Glassware	80000.00
22.11.21		Chemicals	80000.00
10.12.21.		Industrial Visit Eco Pure Technologies Private Limited, No12, Mlp Buildings, Mangalam Rd,	10000.00

		near Kumar Gas Service, Tiruppur, Tamil Nadu 641 604	
	11.12.21	Field Visit Salim Ali Centre for Ornithology and Natural History (SACON), Anaikatti, Coimbatore	15000.00
	15.12.21.	Workshop on Hands on Training on “Cyclic Voltammetry (Theory & Practicals)”	6700.00
	20.12.21	Group Project	24000.00
	08.01.22	FDP – Laboratory Assistants -Hands on Training on the topic “ Preparation of Laboratory Cleaning Material”	5495.00
	22.01.22	Orientation Programme on Competitive Exam “Opportunities & Avenues in Science for Aspiring Birds”	2000.00
	24.01.22 & 25.01.22	International Conference on “Pioneering Emerging Opportunities and Exploring New Realm in Chemical Sciences”	13000.00
	24.01.22	Glassware	20155.00
	27.01.22	Awareness Programme on “Human Rights – Most Used and Least Understood”	2000.00
	07.02.22	Interaction Programme for School Students Science ADDA	4350.00
	22.02.22	Hands on Training on “Computational Structure Development of Molecular Compounds”	1600.00
	28.02.22	Motivational Programme on “Challenges and Opportunities for Learning in the Pandemics”	3500.00
		<b>Total</b>	<b>400000.00/-</b>

### CONTINGENCY

Department	Date	Recurring grant	Amount (Rs.)
Zoology	27.10.2021	Glasswares and Chemicals	33000.00
Botany	24.11.2021	Glasswares and Chemicals	33000.00
Chemistry	03.01.22	Glasswares	34000.00

### O) OUTREACH/ EXTENSION ACTIVITIES

Department	Date	Activity	Place	Number of Beneficiaries
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Zoology	07.03.2022	Blood grouping & Haemoglobin Testing	Government School, Karadimadai Village, Coimbatore	135
	16.03.2022	Maintenance of vermicompost unit	Manguli Village, Palamalai	42 families
	19.11.2021	Extending the Department to other Colleges (Govt. Arts College, Coimbatore)	Department of Zoology, Nirmala College for Women, Coimbatore	20
Botany	30.10.2021	Mushroom Cultivation for enhancing self-employment	Tribal People of Perukaipathi, Palamalai Village	15
	02.03.2022	“Herbal soap preparation”	Palamalai Village - Ranganathapuram	3
	07.03.2022	Extension Activity in collaboration with NSS at Karadimadai (Mushroom cultivation and Face pack preparation)	Government School, Karadimadai Village, Coimbatore	8
Chemistry	23.10.2021	Good Health and Well-being- Awareness Program on “Preparation and usage of Biofertilizer”	Manguli	15
	08.03.2022	Explore the Food You Eat	Karadimadai, Mathampatti	50
	09.03.2022	Good Health and Well-being- Training Program on "Preparation and usage of Biofertilizer	Manguli	15

#### P) BEST PRACTICES

Department	DATE	ACTIVITY	Amount/ Number
	19.07.2021 - 23.07.2021	Harvesting of vermicompost	585 kg

<b>Zoology</b>	06.12.2021 - 07.12.2021	Harvesting of vermicompost	525 kg
<b>Botany</b>	29.12.2021 - 25.01.2022	Mushroom Cultivation	15kg
	14.07.2021	Terrace garden	20kg
	09.02,2022	Organic manure	955kg
	24.09.2021	Production of Areca plate	65 no.
<b>Chemistry</b>	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

**Q) Colleges mentored to apply for DBT Star College grants**

<b>Departments</b>	<b>Colleges mentored</b>
<b>Zoology</b>	GVG Visalakshi College, Udumalpet St. Mary's College, Thoothukudi
<b>Botany</b>	-
<b>Chemistry</b>	GVG Visalakshi College, Udumalpet

**R) Invited Lectures**

<b>Department</b>	<b>Date</b>	<b>Name and Designation of Resource person</b>	<b>Topic</b>	<b>No of participants</b>
Zoology	14.06.2021	Dr.N.Marimuthu, Scientist D and Officer –in-charge (General Non- chordata section), Zoological survey of India, Ministry of Environment, Forest and Climate change), Kolkata, India	Guest Lecture on "Research methods on Reef Restoration process"	100

	18.06.2021	Dr. Vaithianathan Kannan, Wildlife Biologist, Sathyamangalam Tiger Conservation Foundation Tamilandu Trust, Erode	Guest Lecture on “Monitoring Elephants”	75
	02.07.2021	Dr. Bavani Govindarajulu, Assistant Professor, Department of Zoology, Queen Mary’s College, Chennai	Guest Lecture on “Butterfly biodiversity and conservation strategies”	89
	17.07.2021	Dr.T.Veeramani, Consultant, Coastal Aquaculture Authority, Ministry of Fisheries (Govt. of India), Nandhanam, Chennai	Guest Lecture on “Entrepreneur opportunities in live feed culture”	87
	20.07.2021	Dr. J. Jerald Wilson, Department of Marine and Coastal studies, School of Energy Sciences, Madurai Kamaraj University, Madurai	Guest Lecture on “Mermaids: The Myth and Reality”	88
	02.08.2021	Dr. A.S. Maheswari, Assistant Professor and Head, Department of Zoology, SeethalakshmiRamaswami College, Tiruchirappalli	Guest Lecture on “Role of freshwater wetlands in biodiversity conservation”	66
	10.08.2021	Dr. K. Jahir Hussain, Assistant Professor, Department of Zoology, C. Abdul Hakeem College of Arts and Science, Vellore, Tamilnadu.	Guest Lecture on “Campus biodiversity as a model system to study urban biodiversity”	89
	21.08.2021	Dr.A.Edward William Benjamin, Director i/c (CDOE) and Professor, Department of Education, Bharathidasan University, Tiruchirappalli.	Guest Lecture on “Research Methodology”	79
	25.08.2021	Dr.T.Parimelazhagan, Professor, Department of Botany, Director, IPR Cell, Bharathiar University	Guest Lecture on “Intellectual Property Rights”	58
	03.09.2021	Dr.J.Stephen Sampath Kumar, Director, Directorate of Sustainable Aquaculture, Tamilnadu Dr.J.Jayalalitha Fisheries University, Thanjavur	Guest Lecture on “Research and Career scope in Aquaculture”	67
	17.09.2021	Dr. K. Srikala Ganapathy, Founding Editor of Science Shore E Magazine, Chennai	Guest Lecture on “Environmental Sustainability”	65
	22.09.2021	Dr.R.Kungumapriya, Assistant Professor, Department of	Guest Lecture on “Hormones and Health “	66

	Zoology, Pachaiyappas College, Chennai		
29.09.2021	Dr. V. Deepak Samuel, Scientist- E, Coastal and Marine Resources Conservation Division, National Centre for Sustainable Coastal management, Ministry of Environment, Forest and Climate Change, Anna University, Chennai.	Guest Lecture on “Unique Marine life”	77
12.10.2021	Prof. Edathil Vijayan FNASc, President, Society for Biotechnologists India (SBTI)	Guest Lecture on “A Journey through a Scientific Episode”	81 students (II & III UG) 7 Faculty
11.11.2020	Dr. M. Anand, Department of Marine and Coastal Studies, School of Energy Environment & Natural Resources, Madurai Kamaraj University, Madurai	Guest Lecture on “Impacts of Climate Change on Marine Organisms”	110
25.11.2021	Dr. A. Senthil Kumar, Assistant Professor, PG and Research Department of Zoology, Chikkaiah Naicker College, Erode	Guest Lecture on “The Earth – A Future Planet without Plastics”	61
26.11.2021	Mrs. P.J. Buvaneshwari, Assistant Professor, Department of Bioinformatics, Nirmala College for Women, Coimbatore	Guest Lecture on “General Techniques involved in Phytochemical Analysis”	47
08.12.2021	Dr.S.Beula Agnes, Assistant Professor, Department of Zoology, Sri GVG Visalakshi College for Women , Udumelpet	Guest Lecture on “Wetland : Conservation and Management”	50
16.12.2021	Dr. K. Manimegalai Professor & HOD, Department of Zoology, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore	Guest Lecture on “Role of Insects in Agriculture”	68
19.01.2022	Dr. Muhil Vannan Seralathan, Managing Director, PAR Life Science and Research Pvt Ltd, Trichy	Guest Lecture on “Molecular Biology and its Clinical applications”	98
28.01.2022	Mrs. Amita Paul. C Ph. D Research Fellow (CSIR-JRF), Unit of Conservation Biology, Department of Zoology,	Guest Lecture on “Get the Knack of UGC NET/SLET in Life Sciences”	54

		School of Life Sciences, Bharathiar University, Coimbatore		
	29.01.2022	Dr. Chandran R Assistant Professor, Department of Environmental Science, PSG College of Arts and Science, Coimbatore	Guest Lecture on “Single use plastics”	53
	31.01.2022	Dr. Satish Lakkakula, Scientist, Applied Phycology and Biotechnology Division, Marine Algal Research station, Mandapam, CMFRI, Tamilnadu	Guest Lecture on “Macroalgae seedling production via spore culture and micro propagation: A Entrepreneurial approach”	76
	08.03.2022	Dr.Jemima Kingsley, Director Research, Academics and Lab Services, Orbito Aia Diagnostics Puliakulam Rd, Coimbatore, Tamil Nadu	Guest Lecture on “Employment Opportunities in Medical Lab Technology”	100
	25.03.2022	Dr. N. Ezhiarasi Assistant Professor Department of Zoology Government Arts College (Autonomous). Coimbatore	Guest Lecture on “Threatened Birds of India”	59
	26.03.2022	Mrs. Nivetha Murugan, Engineer, Environmental Enthusiasist, USA	Guest Lecture on “Waste Management”	80
Botany	27/01/2021	Dr. K. Sunita Assistant Professor in Botany	“Dark reaction and Photorespiration in Plants.”	75
	17/02/2021	Dr. S. Sivashankari Assistant Professor & Head in Bioinformatics	“Recent Techniques in Bioinformatics.”	22
	11.03.2021	Dr.E.Manikandan Senior Fellow of UNESCO- Unisa Nanoscience Nanotechnology, Dept of Physics, FUCAS Campus	“Bioanalytical tools for nano- biomedical applications”	80
	27.11.2021	Syed Samiullah.S Professional infotech	“Medical Coding”	90

06.08.2021	Dr. Kannan C.S.Warrier, Scientist F	“Sacred Groves and their incomparable values”	80
12.08.2021	Dr. D.J Parthipan M.D. (Ayur) Chief Consulting Physician	“Soil Biodiversity in Present Scenario	90
17.08.2021	Dr. Sunisha Chandran Project Assistant, Division of basic	“Cloning Vectors”	80
16.08.2021	Mr.Rakesh Menon Founder & CEO	“Navigating through the change.”	90
18.08.2021	Fr. Martin Christu Doss, PG Assistant in Physics	“ Understanding Applications of Physics in biology”	80
13.09.2021	Dr.P.Ravichandren Professor & Head, Department of Plant Science	“Integration of Plant Biotechnology in conservation programs”	80
15.09.2021	Dr.V.Manimekalai Assistant Professor & Head Dept of Botany	“Natural Dyeing practices in contemporary times”	80
20.09.2021	Dr.S.Sankaralingam Assistant Professor PG & Research Dept of Botany	“Biopotential of Marine Algae”	90
27.09.2021	Dr. M. Sathyabhama Assistant Professor Dept of Biotechnology PSG College of Arts	“Advantage of Genomic and cDNA libraries in POLant Science”	90
24.09.2021	Dr. Sahaya Sathish Dean, School of Biological Sciences, St.Joseph’s College,Trichy	“ Bryophytes - a Birds eye view”	80
01.10.2021	D. Marclin Joe Felix PG Assistant in Botany	“Tips and Tricks in Botany”	85
08.10.2021	Dr.D.J Bagyaraj, NASI. Hon. Scientist and Chairman	“ Soil Biodiversity in present Scenario”	90



	05.03.2022	Dr. Divya V Nair, Assistant Professor, Department of Plant Sciences	Authentication of medicinal plants – techniques & advancements”	80
	25.11.2021	Mr. P. Natarajan, Judge Rtd., Chief Judicial Magistrate Judicial Magistrate, Madurai	Awareness Programme on “Know Your Rights: Women Centric Laws”	98
	26.11.2021	Mr. Sheikdeen Advisor, Petroleum Conservation and LPG Gas Research Association Petroleum Conservation and LPG Gas Research Association, Coimbatore	Awareness Program on “Petroleum Conservation and LPG Gas ”	30
	24.03.2022	Dr.K.Sathiyadash Assistant Professor Department of Botany, Thiagarajar College Madurai 625009	Guest Lecture on "Orchid Mycorrhizal Association and its role in Orchid Conservation"	70
	24.03.2022	Dr. G. Parvatham Associate Professor & Former Head, (Retd) Department of Botany Nirmala College for Women Coimbatore	Guest Lecture on THE ART OF MENTORING	90
	25.03.2022	Dr. M. Bupesh Gupta Founder Director Universal Eco Foundation, Pondicherry	Guest Lecture on “SAVE NATURE SAVE BIODIVERSITY	80
	25.03.2022	Dr. S. Sivashankari Assistant Professor & Head, Department of Bioinformatics, Nirmala College for Women, Coimbatore	Guest Lecture on “Gene Finding and Gene Prediction Techniques”	60

	26.03.2022	Dr.R. Mary Josephine, Principal, St.Joseph's College Tirupur	Awareness programme on Single Use of Plastics	65
	26.03.2022	Dr.M.Divya, Assistant Professor, Department of English, PSG Arts and Science College, Coimbatore.	Guest Lecture on Soft skills training Programme	56
	28.03.2022	Mr. Azhagappan, Senior Manager, Cloud and Cyber Security Presales Solution Engineering, Tata Communications, Chennai.	Awareness programme on Cyber security	68
	28.03.2022	Dr.M. Murugan Assistant Professor, Department of Botany, Sri Kaliswari College Sivakasi	Guest Lecture on Cultivation of Azolla	96
	29.03.2022	Dr. R. Ramasubbu Assistant Professor Department Of Botany The Gandhigram Rural Institute Dindigul	Guest Lecture :"Taxonomic key preparation"	60
	29.03.2022	Ms. P.S. Vismaya Director Adsum Consultancy Pvt. Ltd. Mallapuram, Kerala	Guest Lecture on"UK Education - Formalities and Possibilities"	88
	29.03.2022	Mr. A. Joseph Clement Retd. Professor and Head (Former) Department of Botany	Guest Lecture on "Taxonomy – Then and Now"	70

		Government Arts College, Coimbatore		
	24.03.2022	Dr.K.Sathiyadash Assistant Professor Department of Botany, Thiagarajar College Madurai 625009	Guest Lecture on "Orchid Mycorrhizal Association and its role in Orchid Conservation"	70
	24.03.2022	Dr. G. Parvatham Associate Professor & Former Head, (Retd) Department of Botany Nirmala College for Women Coimbatore	Guest Lecture on The art of mentoring	90
Chemistry	16.07.21	Dr.V.Mohanraj Assistant Professor Department of Chemistry Manonmaniam Sundaranar University Constituent College, Kanyakumari	Fight Against Corona 19 Viruses – A Perspective of Medicinal Chemistry	77
	24.07.21	Dr.J.Felicita Florence Assistant Professor Department of Chemistry Holy Cross College Tiruchirappalli	Chemistry in Our Daily Life	74
	09.08.21 & 10.08.21	Dr.PoonamPatyar Assistant Professor Department of Chemistry Punjabi University Patiala Patiala – 147 002, Punjab, India.	Statistical Thermodynamics	50
	13.08.21	Dr.N.Velmani Assistant Professor Department of Chemistry Government Arts College Coimbatore – 641 018.	Glimpses of Electrochemistry and Its Applications	43
	26.08.21	Dr.A.Murugesh Assistant Professor Department of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts & Science	Proton NMR – Basic Principles & Applications Part 1	80

		Periyanaickenpalayam Coimbatore – 641 020.		
27.08.21	Dr.A.Murugesh Assistant Professor Department of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts & Science Periyanaickenpalayam Coimbatore – 641 020	Proton NMR – Basic Principles & Applications Part II	80	
18.09.21	Mrs.Vanjimalar Somasundaram MCA, M.Phil Full Stack Software Developer Ceiyone Tech Coimbatore	Basics of Computer and C Language	29	
27.09.21	Dr.Arunachalam Thirunavukkarasu Assistant Professor Department of Industrial Biotechnology Government College of Technology Coimbatore – 641 013	Food Quality & Biotechnology in Food	80	
29.09.21	Dr.I. Niyas Ahamed Assistant Professor Department of Biochemistry President, Institution's Innovation Council Sacred Heart College (Autonomous) Tirupattur	Intellectual Property Rights	98	
21.10.21	Dr.Viswanathan Mahalingam Director QualiGrafe Author Services Pvt Ltd Coimbatore	Solid State Chemistry	63	

### S) CELEBRATION OF IMPORTANT DAYS ORGANIZED

Department	Date	Topic	Resource Person (designation with complete official address)	No. of Students
Zoology	22.10.2021	Commemoration with Wild Life Week Celebration International Webinar on “Poisoning Prevention in Wild Animals”	Mr. Tim Snow Director and Founder NGO Wildlife Poisoning Prevention and Conflict Resolution, South Africa	87
Botany	30.09.2021	“Youth and Environment”	<b>World Habitat Day,</b> Mr.K.Kalidasn, Environmentalist President - Osai NGO, Coimbatore.	78
	26.01.2022	“The Cost of Freedom”	<b>Republic Day</b> Fr. Bastin Joseph, Assistant Vicar, Holy Trinity Cathedral, Ramanathapuram, Coimbatore.	88
	28.02.2022	“Intellectual Property Rights”	<b>National Science day</b> Dr. T. Parimelazhagan Professor Department of Botany Bharathiar University, Coimbatore – 641046.	87
Chemistry	07.06.2021	Webinar on “Drowning of Planet in Plastic Pollution Under the theme Reimagine, Recreate, Restore in commemoration with <b>World Environmental Day</b>	<b>Dr.M.Sujatha</b> Assistant Professor Department of Chemistry Chikkanna Government Arts College Tirupur – 641 602.	84
	12.08.2021	Orientation Programme on -Bridge the Gap: Break the Barrier-	<b>Dr.JincySundaran</b> Assistant Professor cum Medical Officer Department of Pathology and Psychology	58

		<b>International Youth Day</b>	JSS Institute of Naturopathy and Yogic Sciences Coimbatore	
25.08.2021 & 26.08.2021	International Conference on “Accelerating Research on DNA: Current Trends & Future Directions- <b>National DNA Day</b>	<b>1.Dr. Namasivayam Ganesh Pandian,</b> Assistant Professor(Jr.) Principal Investigator Institute for Integrated Cell-Material Sciences (WPI-iCeMS), A210, Kyoto University Institute for Advanced Study Kyoto 606_8501, Japan. <b>2.Dr. R. Sivasamy,</b> Assistant Professor and Head of the department, Molecular Genetics and Cancer Biology Laboratory, Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore.	99	
20.10.2021	Webinar on “Anticancer Diet”- <b>World Food Day</b>	<b>Dr.S.Suja</b> Professor and Head Department of Bio-Chemistry Bharathiar University Coimbatore – 641046	77	
23.10.2021	<b>International Webinar on</b> “Nanomaterials – Small Science; Big Hopes”in commemoration with <b>National Chemistry Week (October 17-23, 2021)</b>	<b>Dr.SureshkumarManthiriya ppan</b> IBDP Chemistry Faculty Gyeonggi Academy of Foreign Languages South Korea.	79	
28.02.2022	Motivational Programme	<b>Dr.T.Selvaraju</b> Associate Professor Department of Chemistry	110	

		on “Challenges and Opportunities for Learning in the Pandemics (theme “Integrated Approach in Science and Technology for Sustainable Future) <b>National Science Day</b>	Bharathiar University Coimbatore – 641 046	
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**T) INTERCOLLEGIATE/INTERDEPARTMENTAL COMPETITIONS ORGANISED BY THE DEPARTMENT**

Department	Date	Name of the Program	Number of Participants	Number of Colleges Participated
<b>Zoology</b>	14.05.2021	Online quiz competition on “Solid waste management in India”	220	44
	15.05.2021	Collage competition on “Wealth out of Waste”	45	8
	20.06.2021 - 22.06.2021	Brain Storm competition on “Measures to be taken to eliminate Single Use Plastics”	25	24
	27.10.2021 - 10.11.2021	Essay Writing Competition on “Forests and Livelihoods: Sustaining People and Planet	23	14
	05.01.2022	e-Poster making competition on “Environmental sustainability”	18	1
	05.01.2022	Video making competition on “Animals in marine natural habitat”	16	1
	06.01.2021	Best out of waste competition on “Solid waste management”	40	1
	06.01.2021	Pencil Art competition on “Wild Animals”	39	1
	07.01.2022	Poster presentation competition on “Wild animals and their identity”	31	1
<b>Botany</b>	24.03.2022	Quiz competition on Conservation of forest.	46	1
<b>Chemistry</b>	05.06.21 – 10.06.21	World Environmental Day – ENVIRON 21 Theme: Reimagine, Recreate, Restore <b>(Poster Contest)</b>	63	1
	15.06.21 - 20.06.21	Poster Design Theme: Say no to single use plastic <b>(Poster Contest)</b>	12	1

	16.09.21	<b>Ozone Day Quiz</b> Competition	131	40
	22.11.21- 26.11.21	<b>Video Making Contest-</b> Theme: Say No to Single Use Plastics	20	1
		Interaction Programme for School Students <b>Science ADDA-</b> Connection Competition	330	16
	22.02.22	<b>Awareness Programme cum Quiz Competition</b> on Intellectual Property Rights	103	1
	22.02.22	<b>Essay Writing Competition</b> on Intellectual Property Rights	53	1

**U) LIST OF PROJECTS UNDERTAKEN BY STUDENTS, INDUSTRIAL VISITS BY STUDENTS, SUMMER TRAINING IN LAST ONE YEAR:**

<b>Department</b>	<b>List of Projects (Topics)</b>	<b>No/. of Students (under the Project)</b>
Zoology	Analysis of the physico-chemical parameters of Valankulam Lake, Coimbatore. for a period of 3 months, Oct to Dec 2021	10
	Comparative study of the vermicompost of coconut fibres and coconut kernel using <i>Perionyx excavatus</i>	10
	Potential effect of the ABO blood group system on the susceptibility to Covid 19 and the disease progression and outcomes	10
	Comparative study of <i>Cataranthus roseus</i> using selective organic manure fish waste, goat waste, and vermicompost	10
	Insecticidal activity of the medicinal plants <i>Ocimum tenuiflorum</i> and <i>Mentha spicata</i> against <i>Sitophilus granarius</i> in <i>Tritium aestivum</i> (Wheat)	10
	Preparation of vermicompost from the waste of Kiwi fruit <i>Actinidia deliciosa</i> using the earthworm <i>Eisenia foetida</i>	10
	Screening of phytochemical analysis in different marine seaweeds of Mandapam Coast, Rameswaram, India	10
	Bio-conversion of shell waste and seaweed extract into compost preparation and its plant development	10
	Extraction and characterization of chitin and chitosan from marine sources	10
	Influence of coir waste on the growth and yield of <i>Amaranthus dubius</i> and <i>Trigonella foenum graecum</i>	10



<b>Botany</b>	Preliminary Phytochemical analysis and Anti-cancerous activity of Edible Lichen <i>Parmotrema tinctorum</i> , Nyl.	3
	<i>In-vitro</i> phytochemical analysis of selective edible fruits in Nirmala college campus.	3
	Biochemical characterization of selected edible nut seeds.	3
	Phytochemical analysis, Molecular Docking and GC-MS analysis of <i>Cassia fistula</i> .	4
	Synthesis of Bioplastics and preliminary phytochemical analysis of <i>Musa acuminata</i> peel (Musaceae)	1
	Analogical study on growth performance of Oyster Mushroom ( <i>Pleurotus sajor-caju</i> ) using lignocellulosic by products of different substrate combinations.	1
	Screening analysis of nutritive value composition, oil extraction and preliminary phytochemical constituents of <i>Petroselinum crispum</i> Hoffm. Leaves and seeds	1
	Analogical study on growth performance of Oyster Mushroom ( <i>Pleurotus sajor-caju</i> ) using lignocellulosic byproducts of different substrate combinations.	1
	Ethnobotanical Survey of Medicinal Plants used by Attukal Tribes, Attukal, Boolumampatti, Coimbatore, Tamil Nadu	3
	Analysis of Iron content in Vegetables, Nuts, Spices, Cereals and pulses as Dietary supplement using Spectrophotometric technique.	1
	Innovation in Propagation Methods of trending Ornamental and Indoor Plants.	1
	Formulation and Physiochemical Evaluation of "Miracle Tree Oil" – <i>Moringa oleifera</i> L.	1
	<i>In-vitro</i> phytochemical and GC-MS Analysis on <i>Areca nut</i> leaf plate - an important cash crop grown in India	1
	<i>In- vitro</i> phytochemical and Histochemical studies on <i>Psidium cattleianum</i> – An exotic fruit tree	1
	Preliminary phytochemical and GC-MS Analysis on <i>Barleria cristata</i> flower - an important ornamental plant	1
	Comparative study of protein content in selective food items.	1
	Natural Edible food colours and fabric dyes from plant resource.	1
Pollen analysis of roadside plants in local regions of Coimbatore District.	1	
<b>Chemistry</b>	Optimization of silica gel preparation from rice husk ash for chromatography applications	4
	Synthesis of green nanoparticles and their biological applications	4

	Extraction of collagen from fish waste and its applications.	4
	Corrosion inhibition and anti-bacterial properties of newly synthesized organic inhibitor on copper in acid medium	3
	Phytochemical screening and invitro anti-microbial activity of the selected plant material	3
	Biosorption of copper ions from an aqueous solution using citron and custard apple leaf extract	4
	Phytochemical analysis of acacia nilotica gum	4
	Growth and characterization of ternary crystals of type abx <sub>2</sub> by slow evaporation method	4

#### V) MENTOR'S MEETING

Department	Date	Name	Designation
Zoology	26.08.2021	Dr. K.S. Santhy	Professor, Department of Zoology, Avinashilingam Institute of Home Science and Higher Education for Women, Coimbatore
Botany	11.02.2022	Dr.M.Maghima	Assistant Professor, Department of Microbiology, Muthayammal College of Arts & Science, Nammakkal Dt.
Chemistry	18.08.21	Dr. S. Manonmani,	Associate Professor and Head, Department of Chemistry, PSG College of Arts and Science, Coimbatore
	01.03.22	Dr. S. Manonmani,	Associate Professor and Head, Department of Chemistry, PSG College of Arts and Science, Coimbatore

#### W) AWARDS AND ACHIEVEMENTS

##### i) AWARDS – FACULTY

Department	Date	Name of the faculty	Name of the Award	Organizing Committee
Zoology	-	-	-	-
Botany	31.05.2021	Dr.M.Saradha	Women Researcher Award	VD GOOD Professional Association
	11.09.2021		Bharathi Kanda Pudhumai Pen Award	Women Development Cell, Gobi Arts and

				Science College, Gobichettipalayam
		Dr.Sr. M. Arul Sheeba Rani	INSA Visiting Scientist Award	Indian National Science Academy, New Delhi
Chemistry	19.08.21	Dr.N. Gunavathy	International Women Achiever Award 2021	International Research Association, England
	15.11.2021	Dr. P. Kalavani	International Young Scientist Award 2020-21	International Institute of Organized Research which is a registered MSME with the Ministry of Micro, Small and Medium Enterprises, Government of India
	24.11.2021	Dr. N. Gunavathy	International Eminent Researcher Award 2021	International Institute of Organized Research (I2OR) (Registered MSME with Ministry of MSME, Govt of India (UDYAM-PB-20- 0002405) India Ref No.I2OR/2021/IA- 054
	26.11.2021	Dr. N. Gunavathy	Contribution in World Book of Records, London – 1111 Poems by 1111 Poets.	ESN Publication Virudhunagar Chennai

ii) ACHIEVEMENTS OF FACULTY

Department	Date/Year	Name of the Staff/Student	Nature of the Achievement	Level
Zoology	-	-	-	-
Botany	05.02.2022	Dr.M.Saradha	<b>PATENT FILED-</b> Preparation of drug particles using evaporation precipitation into aqueous solutions	Application No. 2022410120 11 <b>Indian Patent</b>
Chemistry	2021	Dr.N.Gunavathy Dr. P. Dhivya	Received <b>copyrights</b> for the Book Titled “Personal & Home Care Products” Reg. No. L-109309/2021 Dated 29.11.2021 Diary No. – 24055/2021-CO/L Dated 05.10.2021	National
	2021	Dr.K.Anbarasi	<b>Patent Filed and Published</b> Title: Efficient Titanium Alloy Nano Coatings for Aerospace Components The Patent Office Journal Number 50/2021	National
	2021	Dr.N.Gunavathy Dr. P. Dhivya	Received <b>copyrights</b> for the Book Titled “KatridaVendrida” Reg. No. L-109963/2021 Dated 29.12.2021 Diary No. – 23760/2021-CO/L dated 30.09.2021	National
	2021	Dr. K. Anbarasi	Received <b>copyrights</b> for the Book “Role of Chemistry in Everyday Life” Reg. No – L-109964-2021 Diary No – 23757/2021-CO/L Dated 30.09.2021	National
	26.07.2021	Dr. P. Dhivya & Dr.S.P. Rajendran	Awarded best Oral Presentation in the International Conference on Material Science and Technology organized by Nehru Institute of Technology, Coimbatore. <b>First Prize</b>	International

	29.07.2021 – 31.07.2021	Dr. P. Dhivya & Dr.S.P. Rajendran	Awarded best Oral Presentation in the Smart Materials in Chemistry organized by St. Joseph’s College, Trichy <b>First Prize</b>	International
	26.11.2021	Dr. N. Gunavathy	Certificate of Publication – Co-authoring an anthology “My Mother” ISBN 978-93-90781-68-3	International

### iii) FELLOWSHIP

Department	Year of Award	Name of Faculty	Designation	Level	Name of the Fellowship, received from Government or Recognized Bodies
Zoology	2021	Dr. J. Roopavathy	Assistant Professor	National Rs. 50,000/-	Unnat Bharat Abhiyan
Botany	18.10.2021 to 18.12.2021	Dr.Sr.Arul Sheeba Rani,	Assistant Professor	National <b>60,000/-</b>	INSA Visiting Scientist Award from National Science Academies,
Chemistry	2021 – 2022 <b>One month 02.12.21 – 02.01.22</b>	Dr.P.Kalaivani	Assistant Professor	National <b>Rs. 29,474/-</b>	INSA Visiting Scientist Award from National Science Academies, INSA/SP/VSP-35/2021-22/ 31st May, 2021

### iv) FACULTY AWARDED Ph. D

Department	Name of the Staff	Date of Registration	Date of Viva-Voce	Title	Name of the Supervisor
Zoology	-	-	-	-	-
Botany	Dr. S. Amala Divya	01/11/2016	04/03/2022	Ethnobotanical documentation of lacticiferous plants from Maruthamalai Hills, Western ghats and Evaluation of phytochemical,	Dr. T. Sekar

				Pharmacological properties of Sarcostemma brunonianum Wight & Arn.	
Chemistry	-	-	-	-	-

## X) ACHIEVEMENTS OF STUDENTS

Department	Date	Name & Class	Event	Participation / Prize/ Award/Scholarship	Details of the Organizing Committee
Zoology	18.02.2022	Steffy Mary Thomas	Indira Gandhi Scholarship for Single Girl Child	Rs. 36,200.00	University Grants Commission
	21.02.2022	Sangeetha Priya. P	Indira Gandhi Scholarship for Single Girl Child	Rs. 36,200.00	University Grants Commission
	21.02.2022	Abhinya. TI	Indira Gandhi Scholarship for Single Girl Child	Rs. 36,200.00	University Grants Commission
	22.03.2022	Revathi Unni. K	Competitive exam cleared	Gate Score: 452	GATE (Life Sciences)
Botany	22.03.2022	Miss. Nimisha.M	Competitive exam cleared	GATE score with 38.67%	GATE (Life science)
Chemistry	31.05.21 – 06.06.21	Eva Vinishiya. A, II B.Sc Chemistry (201CH005)	Essay Competition	Iyaṅ kai Cemmam Award	Pasumai Vasal foundation
	24.06.21 – 04.07.21	Eva Vinishiya. A II B.Sc Chemistry (201CH005)	Peruthalaivar karmaverar kamarajarin viruthugal - 2021	Kamarasarin sigaram Award	Pasumai Vasal foundation & Manithanaeya MakKal Arakatalai

24.07.21	Srimathi.P II B.Sc Chemistry	Speech Competition	Third Prize (Cash Prize 500/- + Certificate)	CMT Academy  Tribute on the death anniversary of Bharat Ratna Dr APJ Abdul Kalam
24.07.21	Shneha. V II B.Sc Chemistry	Speech Competition	Consolation Prize (Cash Prize 250/- + Certificate)	CMT Academy  Tribute on the death anniversary of Bharat Ratna Dr APJ Abdul Kalam
25.07.21 - 05.08.21	Eva Vinishiya. A II B.Sc Chemistry (201CH005)	Sudhathiradhi na Sirapu Viruthugal- 2021	Virapandiya kattapoman Award	Pasumai Vasal foundation, Dindigul.Desi ya MaKkal Urimaikal Iyakam chennai,Agni Pengal Tamil Sangam  TamilNadu & kambar Iḷ aiñarkaḷ Narpani Mandram Krishnagiri
14.09.21 - 20.09.21	Eva Vinishiya. A II B.Sc Chemistry (201CH005)	Mahatma Gandhi's Birth Anniversary Awards	Gandhi semal Award	Pasumai Vasal foundation, Dindigul, Eḷ ukuralcam ūka Ayvuniṟ uva ṇ am Ilañ kai ,

					Thanal Arakatalai Dindigul & Namadhu karagal Arakatalai - Pollachi
15.10.21	Eva Vinishiya. A II B.Sc Chemistry (201CH005)	DR.A.P.J Abdul Kalam's Birth Anniversary Awards	Ooli mani Award	Pasumai Vasal foundation, Dindigul, Ethalai Aram Arakkatalai-sivagangai, Tamil Nadu, Mother tersa Nursing College, Dindigul, Panai Maram Kakkum Pathukappu Iyakam kanyakumari, TamilNadu	
14.11.21	Eva Vinishiya. A II B.Sc Chemistry (201CH005)	Jawaharlal Nehru's Birth Anniversary Awards	Val arpir ai veṇ puṛ ā Award	Pasumai Vasal foundation ,Dindigul,Elak iya Thagam Matha Ithal-kulithali, karur district, Tamil Nadu, Panai maram kakum pathukapu iyakkam kanyakumari district, Nambi gai trust	



					kichipalayam, salem district
	24.02.22	Eva Vinishiya. A II B.Sc Chemistry (201CH005)	Thangatharag ai Thangaratham Awards - 2022	Phoenix Sirakugal Award	Pasumai Vasal foundation ,Dindigul, TamilNadu, Panai Maram kakum Pathukapu Iyakkam kanyakumari District, Subam kalvi Arakatalai ,Dindigul, Sree Success Academy Attur, Salem District.

**Y) RESEARCH PROJECT MAJOR/ MINOR PROJECTS RECEIVED**

<b>Department</b>	<b>Date</b>	<b>Name of the faculty</b>	<b>Topic</b>	<b>Funding Agency</b>	<b>Amount (Rs.)</b>	<b>Sanctioned/ Ongoing/ Completed</b>
<b>Zoology</b>	2021 - 2022	Dr. G. Chitra	Probiotics in ornamental fish breeding and culture – A new dimension to aquaculture entrepreneurship	<b>Seed Money Project</b> Nirmala College for Women, Coimbatore	10000/-	Ongoing

	2021 - 2022	Dr. B. Karpagam	Recycling of food waste into high quality as a more sustainable and ecofriendly practice for edible fish culture	<b>Seed Money Project</b> Nirmala College for Women, Coimbatore	10000/-	Ongoing
<b>Botany</b>	27.10.2021	Dr. U. Danya, Assistant Professor, Department of Botany, Nirmala College for Women, Coimbatore.	Sustainable management and conservation of Medicinal, Indigenous & Fruit yielding tree species and developing a nursery centre in the Nirmala College Campus, Southern Tamilnadu, India.	<b>Seed Money Project</b> Nirmala College for Women, Coimbatore.	10000	Ongoing
	18.10.2021 to 18.12.2021	Dr.Sr.Arul Sheeba Rani, Assistant Professor, Department of Botany, Nirmala College for Women, Coimbatore.	Biological activities of Nanoparticles synthesized using polysaccharide extracted from <i>Acanthophora dendroides</i> characterized for drug delivery.	<b>INSA – Visiting Scientist Programme</b> – 2021 (2 Months) Central University of Kerala, Department of Plant Sciences, School of Biological Sciences Tejaswini Hills, Godavari, Kasaragod,	60,000	Completed

				Kerala, India.		
	11.03.2022	<b>Guide Name:</b> Dr. Sincy Joseph  <b>Student Name:</b> Ezhilarasi. R	Impact of Air Pollution and Leaf Dust Deposition on Biochemical parameters and Air Pollution Tolerance (APPI) of some road side plants	<b>TNSCST</b>  Student Research Fellowship 2021-2022	7,500	Ongoing
<b>Chemistry</b>	-	-	-	-	-	-

**Z) PAPER PRESENTATION BY THE STUDENTS/FACULTY**

Department	Date	Name of the faculty	Topic	Category	Organizing Committee with address	Platform
Zoology	09.02.2022 – 10.02.2022	Kaviya. V; <b>Dr. Sr. Mary Fabiola</b> ; V. Illakiya	The efficacy of <i>Sargassum cristaefolium</i> seaweeds from Maanora Coast as potential pesticides activity against <i>Spodoptera litura</i> Fab. (Lepidoptera: Noctuidae)	Envisioning Environmental sustainability and Digital Challenges	PG and Research Department of Library and Information Science & Research Committee	Online
	09.02.2022 – 10.02.2022	Mercy and <b>Dr. Sr. Mary Fabiola</b>	Bioremediation-A sustainability technology for removal of metal contaminants	Envisioning Environmental sustainability and Digital Challenges	PG and Research Department of Library and Information Science & Research Committee	Online
	09.02.2022 – 10.02.2022	Sasikalarani. W and <b>Dr. Sr. Mary Fabiola</b>	Effect of green synthesized silver nano particle from <i>Annona squamosa</i> against human pathogens – A sustainable practice	Conceptualizing community competencies for academic prospects	PG and Research Department of Library and Information Science &	Online

					Research Committee	
	09.02.2022 – 10.02.2022	V. Ilakkiya; <b>Dr. B. Dhanalakshmi</b> and V. Kaviya	A study on biodegradable and Bio-plastic films formulated from two macro algae Manora coast, Tamilnadu, India	Envisioning Environmental sustainability and Digital Challenges	PG and Research Department of Library and Information Science & Research Committe	Online
	09.02.2022 – 10.02.2022	<b>Dr. Sajani Jose</b>	Biopesticide effect of crude leaf extracts of <i>Gliricidia sepium</i> against IV instar larvae of gram pod borer <i>Helicoverpa armigera</i>	Envisioning Environmental sustainability and Digital Challenges	PG and Research Department of Library and Information Science & Research Committe	Online
	09.02.2022 – 10.02.2022	<b>Dr. Dhivya. R</b>	Evaluation of biocontrol activity and screening phytochemical compounds present in the methanol solvents extracts of <i>Datura stamonium</i> leaf extracts against the rice weevil <i>Sitophilus oryzae</i>	Envisioning Environmental sustainability and Digital Challenges	PG and Research Department of Library and Information Science & Research Committee	Online

<b>Botany</b>	02.11.2021	J. Yaazhini	“Study on Organic Vermicompost and Panchakaviyam preparation at Kodesam, Sethumadai, Pollachi”	International Colloquium on “Revising Indian Traditional Agriculture – A Contemplations (RITAAC 2020-2021)	Department of Botany, Kongunadu College of Arts & Science Coimbatore	Online
	02.11.2021	S. Kavi Malar	Biochemical & Nutritive values of Edible Flowers	International Colloquium on “Revising Indian Traditional Agriculture – A Contemplations (RITAAC 2020-2021)	Department of Botany, Kongunadu College of Arts & Science Coimbatore	Online
	09.02.2022 – 10.02.2022	J. Yaazhini	Agricultural Utilization of Vermipost and Panchakaviya- A short Review	New frontiers in Research : Challenges and Innovations	PG and Research Department of Library and Information Science & Research Committee	Off-line
	09.02.2022 – 10.02.2022	S. Kavi Malar	A Review on Organic Agriculture for Environment Sustainability	New frontiers in Research : Challenges and Innovations	PG and Research Department of Library and Information	Off-line

					Science & Research Committee	
Chemistry	25.06.21	<b>Dr.N.Gunavathy</b> Dr.S.C.Murugavel	Musa Acuminata Bract as Green Corrosion Inhibitor for Mild Steel in Sulphate Environment	International Virtual Conference on "Frontiers in Chemical Sciences (IVCFCS – 20210"	Department of Chemistry, MLSU Udaipur, Rajasthan.	Online
	26.07.21	S.Gladiyarani <b>Dr.N.Gunavathy</b>	Phytochemical Screening, Weight Loss Measurement and Surface Examination Analysis of Cereusrepandus (Cer) Stem Extract as Green Corrosion Inhibitor for Mild Steel in 1n H2SO4 Acid Solution	International Conference on "Current Trends in Material Science & Technology"	Department of Science & Humanities (Physics), Nehru Institute of Technology, Coimbatore	Online
	26.07.21	<b>Dr.N.Gunavathy</b> Dr.S.C.Murugavel	Musa Acuminata Bract – A Green Corrosion Inhibitor as Anti Pitting Agent for Mild Steel in Acid Solution	International Conference on "Current Trends in Material Science & Technology"	Department of Science & Humanities (Physics), Nehru Institute of	Online

					Technology, Coimbatore	
26.07.21	<b>P.Dhivya</b> , S.P.Rajendran	Exploration of in-vivo antitumor and histopathology studies of Quinoline Derivatives	International Conference on “Current Trends in Material Science & Technology”	Department of Science & Humanities (Physics), Nehru Institute of Technology, Coimbatore	Online	
26.07.21	Deva Sagayam Annie Cathrien , <b>Paul Dhivya</b>	Synthesis and Characterization of Bioplastic derived from Cucurbita maxima	International Conference on “Current Trends in Material Science & Technology”	Department of Science & Humanities (Physics), Nehru Institute of Technology, Coimbatore	Online	
29.07.2021, 30.07.2021 and 31.07.2021	<b>Dr. P. Dhivya</b> & Dr. S.P.Rajendran	An Insight into the Photophysical activities of StyrylQuinoline Derivatives	International Conference on “SMART MATERIALS CHEMISTRY (CHEMSMAT - 21)”	Department of Chemistry, St. Joseph's College, Trichy	Online	
29-31 <sup>st</sup> July 2021	<b>Mrs.J.Johny Caroline,</b> <b>Dr.C.Subha</b>	Exploring The Efficacy of Novel Polyesters Scaffolds On Cancer Cell Lines	International Conference on “SMART MATERIALS CHEMISTRY	Department of Chemistry, St. Joseph College, Trichy	Online	



				(CHEMSMAT - 21)”		
27.08.2021 & 28.08.2021	<b>Dr. P. Dhivya &amp; Dr. S.P.Rajendran</b>	An Efficient, Ecofriendly and Sustainable One Pot Multicomponent Nanocatalysed Synthesis of Heterocyclic Scaffolds	International Conference on "Recent Advances in Basic and Applied Sciences"	Faculty of Sciences, Baba Mastnath University, Rohtak	Online	
27.08.2021 & 28.08.2021	<b>JJ Caroline, Dr.C.Subha</b>	Molecular Docking Studies of Triazole Monomer Scaffolds as Potent Anticancer Agents	International Conference on "Recent Advances in Basic and Applied Sciences"	Faculty of Sciences, Baba Mast Nath University, Rohtak	Online	
28.09.2021	<b>Dr. P. Dhivya &amp; Dr. S.P.Rajendran</b>	An Exploration of the Photophysical activities of Heterocycles	National Conference on "Energy, Environment & Materials" NCEEM -2021	Department of Science & Humanities, Nehru Institue of Technology, Coimbatore	Online	
27.10.21	<b>M.Sindhu, Dr.P. Kalaivani</b>	Cation Sensing studies of Schiff bases derived from 2-hydroxy-4( <i>N,N'</i> ) diethylaminobenzaldehyde using absorbance and fluorescent method	International Conference on "Emerging Trends in Science and Technology (ETIST-2021)"	Department of Biological Science, Physical Science and Computational Science, NGM college, Pollachi.	Online	

	11.11.21 & 12.11.21	<b>Kulandai Therese S</b>	Design, Synthesis and biological evaluation of novel quinoline derivatives	International Conference on “Expanding Frontiers in Chemistry”	PG Department of Chemistry, Arul Anandar College (Autonomous), Karumathur	Online
	21.01.2022	M. Dharanishree , R.D. Nivetha , N. Sudarvizhi , <b>S. Valli</b>	Synthesis and Characterization of Inorganic – organic Hybrid Crystals by Slow Evaporation Method for modern technological applications	Innovation & Idea generation on Entrepreneur Skill, Attitude & Behavior Development	IIC, Nirmala College for Women, Coimbatore 18	Online
	21.01.2022	C. Jeffi Johana & <b>Dr. P.Dhivya</b>	Entrepreneurship And Start-Up	Innovation & Idea generation on Entrepreneur Skill, Attitude & Behavior Development	IIC, Nirmala College for Women, Coimbatore 18	Online
	21.01.2022	J. Keziah Gracelin <b>Dr. P.Dhivya</b>	Dimensions of Intellectual Property Rights and Scientific Community in India	Innovation & Idea generation on Entrepreneur Skill, Attitude & Behavior Development	IIC, Nirmala College for Women, Coimbatore 18	Online
	21.01.2022	T.R.Sowburnika & <b>Dr.K.Anbarasi</b>	Entrepreneuership Start - Up Celebrating Lives	Innovation & Idea generation on Entrepreneur Skill, Attitude & Behavior Development	IIC, Nirmala College for Women, Coimbatore 18	Online

				Behavior Development		
	21.01.2022	S.Devi, <b>Dr.K.Anbarasi</b>	Idea Generation	Innovation & Idea generation on Entrepreneur Skill, Attitude & Behavior Development	IIC, Nirmala College for Women, Coimbatore 18	Online
	20.01.22 to 21.01.22	T.R.Sowburnika & <b>Dr.K.Anbarasi</b>	Corrosion inhibition of mild steel in 1N sulphuric acid using Alternanthera Philoxeroids as potential green inhibitor	Virtual International Conference on Multidisciplinary Aspects in Chemistry (ICMAC-2022)	Department of Chemistry Sri Ramakrishna College of Arts & Science Coimbatore	Online
	20.01.22 to 21.01.22	S.Devi <b>Dr.K.Anbarasi</b>	Phytochemical screening and pharmacological activity of <i>Cereus argetinensis</i>	Virtual International Conference on Multidisciplinary Aspects in Chemistry (ICMAC-2022)	Department of Chemistry Sri Ramakrishna College of Arts & Science Coimbatore	Online
	22.01.2022	S. Gladiyarani, <b>Dr.N.Gunavathy</b>	Study on the effect of <i>Cereus repandus</i> (CER) stem extract on the corrosion inhibition of mild steel in 1N hydrochloric acid.	Virtual International Conference on Multidisciplinary Aspects in Chemistry (ICMAC-2022)	Department of Chemistry Sri Ramakrishna College of Arts & Science Coimbatore	Online

	22.01.2022	Jeffi Johanna. C, Uma Maheswari. S, Jothika. S, Dharani. M, <b>Dr. P. Dhivya</b>	Biosorption of Cu <sup>2+</sup> ion from aqueous solution using leaves of Citrus medica	First International virtual conference on sustainable water 2022 (ICSW 2022)	Department of Chemical Engineering and Department of chemistry in association with IChE student chapter of KPRIET, Indian Institute of Chemical Engineers, KPR Institute of Engineering and Technology, Coimbatore	Online
	20.01.22 & 22.01.22	<b>Dr.N.Gunavathy</b>	Green Synthesis using Musa acuminata peel extract and characterization of lead nanoparticles	International Conference on Multidisciplinary Aspects in Chemistry (ICNAC – 2022)	Department of Chemistry. Sri Ramakrishna College of Arts and Science, Coimbatore	Online
	21.01.2022	<b>Dr.N.Gunavathy</b>	Traditional Dyeing Process With Innovations To Battle New	Innovation & Idea generation on Entrepreneur Skill, Attitude &	IIC, Nirmala College for Women, Coimbatore 18	Online

			Challenges And Lift Business Opportunities	Behavior Development		
	21.01.2022	<b>Mrs Johncy Caroline . J</b>	An Innovative methodology of conversion of organic waste material in to Bio-plastic – A green ideology	Innovation & Idea generation on Entrepreneur Skill, Attitude & Behavior Development	IIC, Nirmala College for Women, Coimbatore 18	Online
	09.02.22 & 10.02.22	<b>Dr.N.Gunavathy</b> &Dr.S.C.Murugavel	Enviornmental Sustainability using Musa Acuminata as Green Corrosion Inhibitor for Conservation of Natural Resources	New Frontiers in Research: Challenges and Innovations (NFRCI)	PG and Research Department of Library and Information Science & Research Committee	Online
	09.02.22 & 10.02.22	S.Gladiyarani& <b>Dr.N.Gunavathy</b>	Recent Trends in Corrosion Inhibition using Plant Extract	New Frontiers in Research: Challenges and Innovations (NFRCI)	PG and Research Department of Library and Information Science & Research Committee	Online

	09.02.22 & 10.02.22	C.Brita John & <b>Sr.Dr.S.Kulandai Therese</b>	Review Paper on the Synthesis of Schiff Bases and its Activity.	New Frontiers in Research: Challenges and Innovations (NFRCI)	PG and Research Department of Library and Information Science & Research Committee	Online
	09.02.22 & 10.02.22	L.Saraswathi& <b>Dr. N.Gunavathy</b>	Green Approach Corrosion Inhibition Mild Steel by Novel Benzophenazinylchrom one Derivative Hydrochloric Ac Medium	New Frontiers in Research: Challenges and Innovations (NFRCI)	PG and Research Department of Library and Information Science & Research Committee	Online
	09.02.22 & 10.02.22	M.Ramya& <b>Sr. Dr.S.Kulandai Therese</b>	Extraction of Collagen from Various Available Sources – A Review	New Frontiers in Research: Challenges and Innovations (NFRCI)	PG and Research Department of Library and Information Science & Research Committee	Online
	09.02.22 & 10.02.22	JannathFirdhous, Brita John C & <b>Sr.Dr.S. Kulandai Therese</b>	Phytochemical Screening of Argemone Mexicana Plant Parts- A Review	New Frontiers in Research: Challenges and Innovations (NFRCI)	PG and Research Department of Library and Information Science & Research Committee	Online

## 10. SELF-EVALUATION

Department	Objectives	Percentage achieved	Reasons for under achievement/if achieved, state in quantitative metrics
Zoology	1) To organize guest lectures in different fields of zoology.	95 %	Achieved
	2) To organize workshops and training programs in Molecular biology, Bioinformatics, Environmental biology.	70 %	Due to lockdown we could not achieve a physical interaction
	3) To organize seminar, symposium and workshops on latest developments.	80 %	Achieved
	4) To facilitate learning by procuring textbooks and reference books.	95 %	Achieved
	5) To organize awareness and training program in research institutes.	0 %	Students were not entertained due to Covid
	6) To organize field trips, industrial/institution visits and educational tour for students.	20 %	Permission was not granted
Botany	1) To organize guest lectures and webinars in different branches of Botany such as Bioinformatics, Biotechnology & Tissue culture.	97%	Achieved
	2) To arrange hands on training, workshops, National and International seminars and conferences on current trends in Plant sciences.	80%	Achieved
	3) To enable learning by text books and reference books.	96%	Achieved
	4) To undergo group projects and to upsurge knowledge in Research	95%	Achieved
	5) To organize field trips and educational tours for students.	30%	Permission was not granted due to covid
Chemistry	1. To gain exposure through Industrial visits, Institute visits and field trip	70%	Achieved

	2. To gain experiential learning through workshop and Hands on training	80%	Achieved
	3. To enhance the knowledge through Conferences, Invited lectures, Orientation program, Awareness program and motivational Program.	90%	Achieved
	4. To spread awareness among the students, the important days like World Environmental Day, International Youth day, National Chemistry Week and National Science day	85%	Achieved

**Co-ordinator**  
**Star college scheme**

**Principal**  
**Nirmala College for Women**