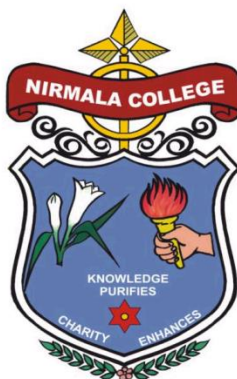


**PROGRESS REPORT BY COLLEGES
SUPPORTED UNDER THE STAR COLLEGE SCHEME**

(BT/HRD/11/019/2012)

(2018 – 19)

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



NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)

Reaccredited with 'A' Grade by NAAC in the 3rd cycle with CGPA of 3.62

Awarded STAR status to the Departments of Botany, Chemistry and Zoology

Supported by DST FIST at Zero level

Redfields, Coimbatore – 641 018.

Tamilnadu

APRIL 2019



ABOUT THE COLLEGE

Nirmala College for women, situated in Redfields, Coimbatore-18 is run by the Congregation of the Franciscan Sisters of the Presentation of Mary. The College had its humble beginning as a second grade College in the year 1948. The founder Msgr.Oubagarasamy,D.D., the Bishop of Coimbatore, with a missionary zeal and farsighted vision worked to contribute his mite to the tremendous task of developing women's education for the development of free India. He sent a proposal to the University of Madras requesting permission for the Coimbatore Diocese to start a college for women in Coimbatore. Thus Nirmala College came into being on the first of July 1948. The college has now emerged as one of the premier institutions of learning, propagating higher values of education and learning, with hopes and dreams to achieve her goal, "*Knowledge purifies, Charity Enhances*".

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

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

AIM

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

OBJECTIVES

In pursuit of this aim, Nirmala College for Women seeks

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

PROFORMA FOR THE SUBMISSION OF THE PROGRESS REPORT (2018-19)

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

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

Name of Coordinator : Dr.Pawlin Vasanthi Joseph

Designation : Associate Professor and Head

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

Phone number. : +91 9655513364

3. Number of regular faculty

Department	No. of regular faculty	With PhD	With M. Phil
Zoology	10	8	2
Botany	10	8	2
Chemistry	9	7	2

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

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

	Ph.D in Botany Certificate course: UGC Sponsored Floriculture and Bonsai Medicinal Botany
Chemistry	B.Sc., Chemistry (Aided) M.Sc., Chemistry (Self- Financing) Research programmes: M.Phil and Ph.D. (Self- Financing)

5. Cut off % for admission in different courses in participating departments, positions in University, % result in 2018-19 academic sessions

Department	Total strength of students		Cut off Percentage for admission	Positions in University	% of results /Nov2018
Zoology	I-B.Sc	45	60% and Above	Autonomous	100%
	II-B.Sc	43			95%
	III-B.Sc	32			98%
Botany	I-B.Sc	46	60% and Above	Autonomous	97 %
	II-B.Sc	40			98 %
	III-B.Sc	45			98 %
Chemistry	I-B.Sc	33	60 % and Above	Autonomous	84.38 %
	II-B.Sc	34			90.96 %
	III-B.Sc	28			95.24 %

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

Department	List of Projects (Topics)	No. of Students (under the Project)
	Study of the ant diversity in the college campus	7
	A comparative study of vermicompost production using cow dung and goat dung	7
	Efficacy of <i>Moringa oleifera</i> _L. (Family: Moringaceae), seed as a larvicidal agent against Dengue fever mosquito, <i>Aedes</i> L. (Diptera: Culicidae)	6
	Comparative analysis of mixed fruit wastes and leaf litter vermicompost using the earthworm <i>Eisenia foetida</i>	6
	Influence of frozen period on the proximate composition and microbial population of commercial marine fishes collected from Coimbatore fish market, Tamilnadu, India	7

Zoology	Efficacy of compost application in potting media derived from different organic wastes on the biometric parameters and flowering capacity of Mari gold (<i>Tagetes erecta</i> L.)	7
	Present status on public health and hygiene condition of retailers at wholesale fish market in Coimbatore, Tamilnadu.	7
	Bioconversion of water hyacinth into vermicompost and its effect on the plant growth.	7
	A comparative study of vermicompost production using parthenium weed and leaf litters and its effect on plant growth.	7
	Comparison of proximate composition of shrimp and crab shell wastes and its utilization of fish feed formulation.	7
Botany	Study on preliminary phytochemical and biochemical analysis of <i>Couroupita guianensis</i> , Aubl.,	4
	An ethanobotanical survey of medicinal plants used by the tribals of Allandurai village, Siruvani, Coimbatore District, Tamilnadu.	5
	Preliminary phytochemical analysis of <i>Santalum album</i> Linn. Leaves using various solvent extracts.	9
	Ethnomedicinal plants of Western Ghats of Coimbatore District for the treatment of Kidney stone.	9
	Study on the medicinal plants for the treatment of liver damage	8
	A Review on Sacred Grooves in and around Coimbatore District.	9
Chemistry	Handmade soap making using natural ingredients	6
	Corrosion inhibition of mild steel using <i>Albizia lebeck</i> in acid medium	3
	A study of eco-friendly natural products as corrosion inhibitor in acid media	3
	Evaluation of the chemical constituents and in vitro antimicrobial screening of <i>Echinopsis calochlora</i>	3
	Investigation on bioactive chemicals and pharmacological assay of <i>Sansevieria cylindrica</i>	3
	Assesment and water quality treatment of metro air compressor	5
	Comparative study on the antibacterial activity of <i>Benkara malabarica</i>	5

6b.

Department	Date	Industrial Visit	No/. of Students and Class
Zoology	03.09.18 to 06.09.18	Mangalore Dairy Unit and Central Marine fisheries Institute, Mangalore	II UG (44) students
	26.09.18	Visit to Integrated fish farming unit, Kanuvai	III UG (32) students
	26.09.18	Gauss Museum, Forest College Coimbatore	I UG (48) students
	12.10.18	Visit to sericulture unit, Udumalpet	I UG (48) students
	23.01.19	Visit to Sakthi Sugars, Erode	III UG (32) students
	05.02.19	Ayurveda Medical Research Laboratory and Digital X-ray Unit	III UG (32) students
Botany	09/08/2018	Botanical Survey of India, TNAU, Coimbatore	74 students
	12/09/2018	Plant collection trip to Maruthamalai, Coimbatore	74 students
	15/09/2018	Plant collection trip to Perumaalmudi Hills, Pollachi, Coimbatore	68 students
	26/09/2018-30/09/2018	Educational trip to Mysore and Bangalore	40 students
	14/12/2018 & 15/12/2018	Tour to Pulicat Lake, Pichavaram and Pondicherry	69 students
	18/12/2018	Field trip to Ramya Nursery, Thadagam	71 students
	28.2.2019	Sugarcane Breeding Institute, Coimbatore	96 students
Chemistry	28.08.18	Regional Science Centre, Coimbatore	II B.Sc (33) students
	15.09.18	Aavin, Erode,	III B.Sc. (28) students
	15.09.18	Arya plastics Sipcot, Perundurai	III B.Sc. (28) students
	15.09.18	Unifront process, Sipcot, Perundurai	III B.Sc. (28) students
	06.10.18	Field trip: Ko desam, Pollachi	III B.Sc. (28) students

	04.01.19	Tamilnadu Agricultural University, Insect Museum Department of Environmental Chemistry, Soil Science and Agricultural Chemistry Coimbatore	I B.Sc. (31) students
	09.01.19	Sakthi Sugars Ltd, Aappakudal, Erode	III B.Sc. (27) students
	10.01.19	Forest College and Research Institute, Tamilnadu Agricultural University, Mettupalayam	I B.Sc. (33) students

6c. Summer training

Department	Date	Summer training	Number of students
Zoology	11.12.18 To 16.12.18	Hands on training in Molecular biology and biotechnology, Centre for Biotechnology and Nanoscience Research, Coimbatore	32
Botany	20.02.2019 to 23.02.2019	Biodiversity internship programme 2019, Universal Eco Foundation, Pondicherry	11
Chemistry	03.9.18 to 09.9.18	High -Rate Bioreactors for the Treatment of Industrial Wastewater, Department of Bio technology, PSG College of technology, Coimbatore	2
	12.12.18 to 15.12.18	Water Analysis and Good Laboratory Practices, M/S Sri Gomuki Tex Chem Private Ltd, Analytical Technology Laboratory, Mylampatti, Coimbatore.	5
	19.12.18 to 22.12.18	HPLC- Mass Technology, Karunya Institute of technology and sciences, Coimbatore.	5

7. Training received by faculty from participating Departments:

Department	Date	Training	No/. of faculty
	22.06.18 & 23.06.18	Outcome Based Education	4
	06.09.2018	Training programme in Apiculture	1faculty and 1 Lab Assistant

Zoology	24.09.18	Workshop on demonstration on Fold scope	9
	08.10.2018	Training programme in Apiculture	1
	13.10.18	Outcome based Eductaion (OBE)	9
	01.10.18	Orientation Programme “NAAC accreditation and All India Ranking 2019 (NIRF), Joint Directorate’s Office, Coimbatore	1
	28.09.18	STEM Teacher Training Workshop on Research, Pune	1
	08.10.18	India International Science Festival -2018, Lucknow	1
	15.10.18 & 16.10.18	Hands on training in bacteriology and textile dye biodegradation	2
	11.12.18 To 16.12.18	Hands on training in Molecular biology and biotechnology	1
	27.11.18	Google Doc’s KAHOOT Apps and Online Book Publishing, Department of Mathematics, Nirmala College for Women - Coimbatore	1
	01.02.19 to 03.02.19	Ecological Festival of Western Ghats, Sri Krishna College of Arts and Science	1
	11.01.19	Workshop on Silk reeling	3
	02.02.19	Workshop on “Intellectual Property Rights, Patent and Copyrights”	10
	21.02.19	Workshop on “LINUX, Department of Computer Science, Nirmala College for Women - Coimbatore	1
Botany	21.03.18 & 22.03.18	Workshop on Multimedia	1
	17.05.2018 to 13.06.2018	Orientation Programme, Bharathiyar University, Coimbatore	2
	22.06.18 & 23.06.18	Outcome Based Education	2
	18.09.18	Women’s Convention on ‘Dismantling the glass ceiling: A Paradigm to sensitise, untrammeland empower’	2
	27.11.18	Google docs, online book publishing and Kahoot apps	2
	14.12.18	Statistical Analysis using SPSS	6
	05.10.18	Workshop - Plant Taxonomy	2
	09.10.18	Workshop - Mushroom Cultivation Technology	1
21.02.19	Workshop on LATEX	3	

	04.03.19	Google docs, QR code generating, online book publishing and Kahoot	1
Chemistry	22.06.18 & 23.06.18	Outcome based education	4
	04.07.18 to 24.07.18.	Refresher Course in Chemistry	1
	14.09.18 and 15.09.18	High Resolution Transmission Electron Microscopy, Scanning Electron Microscopy and Scanning Probe Microscopy	2
	22.09.18	Field Emission scanning electron microscope	2
	11.10.18 & 12.10.18	Science Academies' Lecture Workshop "Frontiers in Spectroscopy"	2
	13.10.18	Outcome based Eductaion (OBE)	7
	27.10.18	Revised Assessment and Accreditation Framework of NAAC	1
	09.11.18	Open Access E-resources for Research and INFLIBNET resources	5
	24.11.18	Field Emission scanning electron microscope	2
	07.12.18	Workshop on Innovations at frontier areas of Chemistry organized by School of Chemistry, ISER, Trivandrum, Vithura. Kerala	1
	12.12.18 to 15.12.18	Internship Training and NABL Certified in "Water Analysis and Good Laboratory Practices- Analytical Technology Laboratory, Coimbatore	1
	19.12.18 to 22.12.18	Training Course in "HPLC- Mass Technology organised by Karunya Institute of technology and sciences, Coimbatore	1
	27.11.18	FDP programme on "Hands on Training on Google Doc's, Kahoot apps and Online Book Publishing	2
	14.12.18	FDP on "Statistical Analysis using SPSS	1
	02.02.19	Workshop on "Intellectual Property Rights, Patent and Copyrights"	8
	04.03.19	FDP programme on "Hands on Training on Google Doc's, Kahoot apps and Online Book Publishing	1
07.03.19-09.03.19	International conference on Chemical Sciences and Nanomaterials organized by Vellore Institute of Technology	1	

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

Department	Date	Seminar /workshop topic	Level	Resource persons	No of participants
Zoology	19.09.18 to 20.09.18	Advances in Biological Sciences Research	National Seminar	<p>Dr. S.Muralidharan, Senior Principal Scientist, Salim Ali Centre for Ornithology and Natural History, Coimbatore.</p> <p>Dr. Manjula Sritharan, Professor, Department of Life Sciences, University of Hyderabad, Telengana</p> <p>Dr. Zaibin A.P, National Post Doctoral Fellow, Kerala Forest Research Institute, Thrissur, Kerala</p> <p>Dr. G. Kumaresan, Professor, Department of Genetics, Madurai Kamaraj University, Madurai</p> <p>Dr. Deepa Subramanyam, Principal Investigator, National Centre for Cell Sciences, University of Pune, Ganeshkind, Pune</p>	460
	03.08.18 to 04.08.18	Separation of DNA/ Protein using Electrophoretic methods	Workshop	Yaazh Xenomics	65

	24.09.18	Demonstration on Fold scope	Workshop	Miss Roshan Jabeen, Research fellow Department of EEE, Sri Ramakrishan college of engineering.	All staff and Students 189
	24.09.18 to 25.09.18	Bioinformatic tools and its applications in Biology	Workshop	Dr. Sivasankri, Assistant professor, Department of Bioinformatics, Nirmala college for women	32 UG III year Students
	11.01.19	Silk reeling	Workshop	Dr. Senguttavan. M Associate Professor and Head Department of Zoology PSGCAS	47 UG II year Students
Botany	01.02.19 02/02/19	Complementary and alternative Indian system of medicine	National Seminar	Dr.T.Sivakumar, IIS Assistant Director Field Outreach Bureau Office, Govt. of India, Puducherry Prof. Dr. A.John Christopher National General Secretary, Bharateeya Naatu Vaidhya Samithe Mr. Joseph Clement Professor and Head (Rtd.), Department of Botany, Government Arts College, Coimbatore-18. Mr. A.S. Suresh Kumar Managing Partner Adhithya Herbal Coimbatore.	200

Botany				<p>Dr.A.Rajalingam Parambariya Varma Maruthuvar Yogamaya Natural Health Care, Coimbatore.</p> <p>Mr. Maharajapillai Parambariya Siddha Vaidhyar Nagarkoil.</p>	
	10.07.18 & 11.07.18	Lecture Workshop- Recent Scenario in Plant and Microbial Technology'	Lecture Workshop	<p>Dr.D.J.Bagyaraj INSA Honorary Scientist & Chairman, Center for Natural biological Resources and Community Development, Bangalore.</p> <p>Dr.K.Veluthambi Professor (Rtd) UGC- BSR Faculty Fellow, Department of Plant Biotechnology, Madurai Kamaraj Univerity, Madurai.</p> <p>Dr. Harini Kumar Professor, Dept. of Biotechnology, Univerisity of Agricultural Sciences, Bangalore – 560065</p> <p>Dr.U. Sivakumar Professor, Dept. of Agricultural Microbiology, TNAU, Coimbatore</p>	150

Botany	12.10.18	Botany Fiesta 2018 – Interbotany Collegiate Competitions- Rangoli, Vegetable Carvings, Mehandi, Cookery and Flower arrangement	Inter collegiate Competition	Dr.Poornima, Asso Prof. (Rtd.) (Alumni – served as judge) Dept. of Botany, PSGR Krishnammal College for Women, Coimbatore. Dr.W.Suganya, Asst.Prof in Botany, Government Arts College, Coimbatore – 18	80
	29.10.18	Orientation Workshop in Chemistry for National Level Competitive Exams	Workshop	Dr.L. Emmanuvel Assistant Professor, Department of Chemistry, Karunya Institute of technology and Science, Coimbatore	107
	15.12.18	Workshop on Microtomy	Workshop	Dr. P. Megalingam Assistant Professor of Botany, V.H.N.S College, Virudhunagar.	75
	20.12.18	Workshop on Mushroom Technology	Workshop	Dr. Kathiravan, Assistant Professor of Biochemistry, Kongunadu Arts and Science College, Coimbatore	60
	08.01.19	Workshop on Permanent Slide preparation	Workshop	Dr. Poornima, Associate Professor (Retd) PSGR Krishnammal College for Women	63
	22.01.19	Hands on training- Artificial Jewellery Making	Hands on training	Ms. P.J. Bhuvaneshwari Assistant Professor Department of Bioinformatics Nirmala College for Women, Coimbatore.	90

				Dr. Sincy Joseph Assistant Professor Department of Bioinformatics Nirmala College for Women, Coimbatore	
	07.03.20 19 to 09.03.20 19		Hands on training programme on Hydroponics	Dr.Periasamy, Ramya nursery, TVS Nagar, Coimbatore. Mr.Vincent, NGO, Tree growers Association, Coimbatore. Dr.Kalyana Sundaram, Associate Professor, Department of Plant pathology, TNAU, Trichy.	60 Self help group
Chemistry	04.10.18	National Seminar	Contemporary Research Fields in Chemistry- CRC-18	1.Dr.V.Alex Ramani Associate Professor of Chemistry St.Joseph college, Trichy. 2.Dr.A.Peter Pascal Regis Associate Professor of Chemistry, St.Joseph College, Trichy 3.Dr.A.V.Ramana Reddy Ex-Head, Analytical Chemistry Division, Bhabha Atomic Research Centre, Mumbai. 4.Dr.N.Ponpandian Professor & Head Department of Nanoscience and Technology Bharathiar University Coimbatore.	400

Chemistry	15.10.18 to 16.10.18	Hands on Training Programme for Handling Electrical Instruments	Hands on Training	Mr. S.T. Vincent, Proprietor, Universal Scientific Co Coimbatore	72
	29.10.18	Orientation workshop in Chemistry for National Level Competitive Exams	Workshop	Dr. L. Emmanuvel Assistant Professor Department of Chemistry Karunya Institute of Technology and Science Coimbatore	107
	12.12.18	Workshop on Handling of UV- Spectrometer	Workshop	Mr.N.Adaikkalam Service Engineer Science World Coimbatore	73
	10.01.19	Workshop on Handling and Practical Usage of melting point devices.	Workshop	Mr.D.Kingston Raj Service Engineer R&V System Coimbatore	34
	19.01.19	FDP	Tuning Academic Research for Potential Funding Opportunities	Dr.B.Jebasingh Associate Professor of Chemistry Karunya Institute of Technology and Sciences Coimbatore	30
	23.01.19	Intercollegiate Chemistry Student Meet	Chem flair-19	Dr. G. Vivekanandan Associate Professor and Head AVC College Mayiladuthurai	230

Chemistry	06.02.19	Workshop	Hands on Training Programme on Electrochemical Workstation	Mr. Manjunatha Rao Sinsil International Bangalore	55
	14.02.19	Workshop	Hands on Training in using Water Analysis equipments like Turbidity meter, P ^H meter and Flame Photometer	Mr.G.Natarajan Service Engineer Systronics India Ltd Chennai-29	62
	22.02.19	FDP	Techniques for Safe Laboratory Handling	J. Senophiyah Mary Department of Environmental Engineering, Government College of Technology Coimbatore	25

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

Department	Date	Name and Designation of Resource person	Topic
Zoology	12.07.18	Dr. Honnavalli Kumara, Scientist, Salim Ali Centre for Ornithology and Natural History, Annaikatty, Coimbatore	Conservation Biology
	17.07.18	Dr. Clara Gunapoorani Sargunar, Associate Professor, Government Arts College, Cbe	Extermophiles
	28.08.18	Dr.P.A Saravanan Department of Entomology Tamilnadu Agricultural University, Coimbatore	Life secrets of honey bees and bee keeping Management
	04.09.18	Mr. Badraswamy Former District Forest Officer, Nilgiris Division	Save Elephants
	04.09.18 & 05.09.18	Dr. Riddhika ramesh, Scientist, Department of Environmental Impact Assessment, Salim Ali Centre for Ornithology and Natural History, Annaikatty, Coimbatore	Wild life week celebration- Intercollegiate competitions

Zoology	27.09.18	Dr.S.Somasundram, Assistant Professor, NGM College, Pollachi.	Conservation of sea turtles
	05.10.18	Dr. Riddhikaramesh, Scientist, Department of Environmental Impact Assessment, Salim Ali Centre for Ornithology and Natural History, Annaikatty, Coimbatore	Scaling up the conservation value of lesser known mammals of India
	10.10.18	Dr. IonaAverel, Associate professor and Head Department of Zoology, Holy Cross College, Trichy.	Monoclonal antibody production technology has revolutionized biotechnology
	11.12.18	Mr. Sreedhar Ramasamy Founder of Nature Consultancy 360°	Environmental Challenges and mitigation
	10.01.19	Dr. Raja, Assistant Professor, Department of Zoology, Kongunadu Arts and Science college, Coimbatore	Global Scenario - Utilization and impact of microplastics
	09.01.19	Dr. T.MuraliSankar Assistant professor Department of Zoology Bharathiar Universtiy, Coimbatore	Sustainable Aquaculture Management
	31.01.19	Dr. Navaneethan Research Consultant, SACON	Special focus on conservation of wild animals in MP Landscape
	22.01.19	Dr. N. Geetha, Assistant professor, Department of Zoology, PSG College of Arts and Science, Coimbatore- 14	Global Environmental Changes
	05.02.19	Dr. N. Suja Assistant professor Department of Microbiology Hindusthan College of Arts and Science Coimbatore- 28	Bioprospecting
	12.02.19	Mr. Laxminathan Technical Head Puliakulam Rd Coimbatore – 641045	Clinical Management of Infectious Diseases and Future Direction in Care
26.02.19	Dr. P.Thangavel Assistant Professor Department of Environmental Sciences, Periyar Univeristy	Influence of climatic changes on faunal resources	

Botany	30.07.18	Dr. N.Kamaraj, Associate Prof. in Biotechnology, Addis Ababa Science and Technology University of Ethiopia	Molecular markers in plant genetic engineering
	29.08.18	Mr.Syed Samiullah, Head operations, Professional infotech, Coimbatore.	Health care and its opportunities
	20.09.18	Dr.R.Rekha Warriar, Principle Scientist, Department of Institute of forest genetics and Tree Breeding, Coimbatore.	Plant Tissue Culture Techniques
	11.10.18	Dr.S.Usha, Assistant Professor, Department of Bioinformatics, Bharathiar university, Coimbatore	“Basics of Bioinformatics and gene prediction of Gene in Eukaryotes and Prokaryotes”
	15.10.18	Ms.Ann Rose Thattil, Professional Makeup Artist, Ann Rose Creations, Coimbatore.	Health and Beauty Care
	29.10.18	Dr.Sivasankari, Assistant Professor, Department of Bioinformatics, Nirmala College for Women, Coimbatore.	Gene prediction in Eukaryotes and Prokaryotes
	29.10.18	Dr.Sudhakar, Assistant Professor, Department of genetics and plant Breeding, TNAU.	Basics of Genetics
	05.12.18	Dr.S.P.Periasamy Retd.Assistant Lecturer, Agricultural College, Coimbatore	Horticulture Techniques
	10.12.18	A.Sheikdeen External Faculty, Southern region Petroleum Conservation Research Association under ministry of petroleum and Natural gas.	Govt.of India Water Conservation and LPG Usage
	14.12.18	Dr. Gnanambal, Assistant Professor, Department of Biochemistry, Bharathiar University, Coimbatore.	Avenue's in Biotechnology
	11.01.19	Dr. T. Muthukumar, Assistant Professor, Department of Botany, Bharathiar University, Coimbatore.	The Secret Life of Plants: Intelligence
	23.01.19	Mr. Sundhar, BE	Terrace Gardening
11.02.19	Mrs. Jayapriya. S Assistant Professor and Head,	Fabric Enrichment techniques	

		Department of Costume design and Fashion, Nehru College of Arts and Science, Coimbatore	
Chemistry	10.07.18	Dr.J. Mallika, Assistant Professor in Chemistry, PSG CAS, Coimbatore	Group theory
	24.07.18	Dr. Rama subbu, Associate Professor of Chemistry, Government Arts College, Coimbatore	Partition functions
	27.07.18	Dr. T. Selvaraju, Associate Professor of Chemistry, Bharathiar University, Coimbatore	Trends and Challenges in Chemical Sciences
	30.07.18	Dr. Sethu Ramalingam, Assistant Professor, Karpagam College of Engineering Coimbatore.	Sustainable Energy
	09.08.18	Dr.N.Muthulakshmi Aandal Assistant Professor of Chemistry PSGR Krishnammal College Coimbatore	Abatement of Environmental Pollution
	11.09.18	Dr.J.Ravichandran Associate Professor of Chemistry (Retd.) SRMV CAS, Coimbatore	Thermodynamics II
	14.09.18	Dr.J.Ravichandran, Associate Professor of Chemistry(Retd.), SRMV College, Coimbatore	Electrochemistry
	25.09.18	Dr.A.Muthusamy Assistant Professor of Chemistry SRMV CAS, Coimbatore	Dye Chemistry
	15.10.18	Dr.K. Parameswari. Associate Professor of Chemistry, Karunya Institute of Technology and Science, Coimbatore	Challenges for Chemists to Solve
	11.12.18	Dr.S.Ponnuswamy Associate Professor of Chemistry Government Arts College Coimbatore	¹ H-NMR Spectroscopy
	18.12.18	Dr.P.Lalitha Associate Professor of Chemistry Avinashilingam University, Coimbatore	Nano Chemistry
	20.12.18	Dr.R.Prabhakaran Assistant Professor in Chemistry Bharathiar University, Coimbatore	Basic Concepts in Chemical bonding
	20.12.18	Dr.T.Selvaraju Associate Professor of Chemistry Bharathiar University, Coimbatore	Catalysis

Chemistry	21.01.19	Dr.P.Lalitha Associate Professor of Chemistry Avinashilingam University Coimbatore	Green Chemistry
	23.01.19	Dr. G.Vivekanandan Associate Professor & Head Department of Chemistry AVC College Mayiladuthurai	Perspectives in Chemistry
	24.01.19	Dr. V.G.Vasudha Former Professor & Head Department of Chemistry Nirmala College for Women Coimbatore	Mass Spectroscopy
	01.02.19 & 02.02.19	Dr.S.P. Rajendran Professor (Retd.) Department of Chemistry Bharathiar University Coimbatore	Glimpse of NMR and Mass Spectroscopy-A Problem Solving Approach
	12.02.19	Dr.M.Dhandapani Associate Professor of Chemistry SRMV College, Coimbatore	Solid state Chemistry
	26.02.19	Dr. J. Kamalraja, Assistant Professor (DST-INSPIRE), Department of Chemistry, Pondicherry University, Kalapet, Puducherry	Name Reactions,Pericyclic Reactions and CSIR Coaching
	26.02.19	Mr.M.S.Muthusamy, Managing Director, MSM Energy enterprises, Coimbatore	Biogas plant and its utilisation
	01.03.19	Dr.C. Gomadurai Associate Professor, Department of Chemical Engineering Kongu Engineering College, Erode	An Insight in to Energy
	02.03.19	Dr.S.K. Kavitha Assistant Professor Department of Chemistry Vellalar College for Women, Erode	Chemistry-Evolution and Revolution

CELEBRATION OF IMPORTANT DAYS ORGANIZED

Department	Date	Topic	Resource Person (designation with complete official address)	No. of Students
Zoology	04.09.18 & 05.09.18	Wild life week celebration - Inter collegiate competitions	Dr.Riddhika Ramesh, Scientist, Department of Environmental Impact Assessment, Salim Ali Centre for Ornithology and Natural History, Annaikatty, Coimbatore	157 students
Botany	19/07/2018	Global Tiger day	Mr.N.I.Jalaluddin President Nature Conservation Society Coimbatore Dr.R.Aravinth Karthikeyan President Rotary Mettupalayam Coimbatore Mr.D.Boominathan Landscape Coordinator WWF – India Mr.S.Saravanan Coordinator Education WWF – India	120 students
Chemistry	28/02/2019	National Science Day “ Plastic Pollution and Environmental Management” In Commemoration of “National Science Day” the department conducted	Dr. P. Siddhuraju Professor and Head Department of Environmental Sciences School of Life Sciences Bharathiar University- 641 046	96 students

		Essay Competition and Drawing Competition for Students and Prizes were distributed.		
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STUDENT PARTICIPATION IN TRAINING PROGRAM

Department	Date	Topic	Seminar/ Conference/ Workshop/ training	National/ Inter national	Organized by	No. of Students Attended
Zoology	03.09.18 & 09.09.18	High rate bioreactors for the treatment of industrial waste waters	Gain Course, MHRD	Regional	PSG Technology, Coimbatore	3
	08.10.18	Training program in Apiculture	Hands on training	Regional	Tamilnadu Agriculture University, Coimbatore	33
	15.10.18 & 16.10.18	Bacteriology and textile dye biodegradation	Hands on training	Regional	Centre for Biotechnology and Nanoscience Research Coimbatore	43
	11.12.18 to 15.12.18	Animal and Medical Biotechnology	Hands on training	Regional	Centre for Biotechnology and Nanoscience Research Coimbatore	32
	06.12.18	Nirmala Annual Research Congress	Conference NARC 18'	Regional	IQAC, Nirmala College for women	11

Botany	9/10/18	Mushroom Cultivation Technology	Workshop	Regional	Kongunadu Arts and Science College, Coimbatore	39
	05/10/18 to 06/10/18	Workshop on Plant Taxonomy	Hands on training	Regional	NGM College, Pollachi	50
Chemistry	29.08.18	Writing Seminar, Research Proposal and Thesis	Seminar	National level	Department of Commerce with Professional accounting , VLB Janakiammal College of Arts and Science, Kovai pudur, Coimbatore	1
	6.09.18 & 7.09.18	Innovations in Chemical sciences and Green Technology	Seminar	National level	Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore.	20
	09.10.18	Chem Fusion 2018	Intercollegiate competition	Regional	Department of Chemistry, SRMV CAS, Coimbatore	11
	09.11.18	Open Access E-resources for Research and INFLIBNET resources	Orientation Workshop	College	Department of Library and Information Science Nirmala College for Women, Coimbatore	10

	11.10.18 & 12.10.18	Frontiers in Spectroscopy	Science Academies' Lecture workshop	National level	PG and Research Department of Chemistry, Kongunadu Arts and Science College, Coimbatore	1
	04.12.18	Nirmala Annual Research Congress NARC-2018	Seminar	College	IQAC Nirmala College for Women Coimbatore	20
	28.12.18	Frontiers in Nanotechnology and Computational chemistry	Seminar	International	Department of Chemistry, Sri GVG Visalakshi College for Women, Udumalpet	8
	24.01.19 to 25.01.19	Futuristic Intricate Stratagems in Computational Genomics CGEN -2019	Conference	National	Department of Botany and Bioinformatics, Nirmala College for Women, Coimbatore	26
	25.01.19	Recent Trends and Advances in Greener Synthesis	Conference	National	SNS College and Technology, Coimbatore	7
	01.02.19 to 02.02.19	Recent Trends in Chemistry	Conference	National	Department of Chemistry Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore	14

	01.02.19 to 02.02.19	Complementary and alternate Indian system of medicine	Seminar cum medicinal plant exhibition	National	Department of Botany and Bio informatics, Nirmala College for Women and Bharatheeya Nattuvaidhya samithy, Trivandrum	2
	19.02.19	Innovations in Chemical Sciences- 2019 ICICS	Conference	International	Department of Chemistry Kongunadu Arts and Science, Coimbatore	6

MENTORS MEETING

Department	Date	Activity	Resource Person	Funded under
Zoology	10/08/18	Mentor Meeting	Dr.Iona Averel, Associate Professor, Department Of Zoology, Holy Cross College, Trichy	DBT Star College Scheme
Botany	11/12/2018	Mentor meeting	Dr.Latha, Associate Professor, Dept.of Biochemistry & Co-ordinator-DBT, Srivenkateswara College, University of Delhi.	DBT Star College Scheme
	02/02/2019	Mentor meeting	Dr.V.S. Ramachandran Professor (Rtd.) Department of Botany, Bharathiar University, Coimbatore – 46.	DBT Star College Scheme
Chemistry	10/08/18	Mentor's Meeting	Dr.C. Suresh Reddy, Professor of Chemistry, Sri Venkateswara University, Tirupathi, Andhra Pradesh.	DBT Star College Scheme
	23/02/19	Mentor's Review Meeting	Dr.C. Suresh Reddy, Professor of Chemistry, Sri Venkateswara University, Tirupathi, Andhra Pradesh.	

10. Date of Advisory committee meeting: Nil

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

Department	Class	List of new practical introduced
Zoology	I-B.Sc	Sericulture Practicals 1. Estimation of Shell Ratio 2. Estimation of Denier 3. Estimation of Renditta
	II-B.Sc	1. Most probable number (for identification of quality testing of water) 2. Detection of Coliphage from water / sewage
	III-B.Sc	1. Isolation of Genomic and Plasmid DNA 2. Agarose Gel Electrophoresis 3. Separation of protein-SDS PAGE 4. Isolation and Estimation of DNA/RNA from animal tissues 5. Demonstration of Blotting techniques
Botany	I Year	1. Individual Experiment - Water quality test using water sample collected from various ponds in and around Coimbatore District 2. Demonstration on Algal culture.
	II Year	1. Microtome sectioning and preparation of permanent slide. Isolation of DNA
	III Year	2. Demonstration of HPLC, Blotting techniques, PCR & RT PCR. 3. Anatomy – Permanent slide preparation 4. Demonstration on milky and Oyster mushroom production.
Chemistry	I B.Sc	Estimation of pH and turbidity of water samples
	II B.Sc	Colorimetric Estimation of Copper ion.
	III B.Sc	Estimation of Na and K ions using flame photometry

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

12a. Non Recurring Expenditure (2018-19)

Department	Items	No. Purchased	Cost	Date of order placed	Purchase/ installation
Zoology	Revolutionary high speed centrifuge	01	40850.00	09.07.18	24.07.18
	24 x 1.5 ml Angle Head	01	9500.00	09.07.18	24.07.18
	24 x 50 ml Angle Head	01	16150.00	09.07.18	24.07.18
	24 x 15 ml Angle Head	01	13300.00	09.07.18	24.07.18
	GST		14364.00		
	Rotary vacuum evaporator	01	80000.00	09.07.18	24.07.18
	GST		14400.00		
	Deep freezer	01	26000.00	09.07.18	24.07.18

Zoology	GST		7280.00		
	Trinocular research microscope	01	84650.00	09.07.18	24.07.18
	GST		15237.00		
	Double distillation unit	01	30000.00	09.07.18	24.07.18
	GST		5400.00	09.07.18	24.07.18
	Microprocessor visible spectrophotometer	01	31000.00	01.07.18	20.07.18
	GST		5580.00		
	Acer computer desktop	01	22457.62	25.07.18	09.08.18
	Laser printer cannon	01	13771.18	25.07.18	09.08.18
	Projector Espson S41	01	23242.18	25.07.18	09.08.18
	Laptop Hp 15	01	20800.16	25.07.18	09.08.18
	Laptop back bag	01	810.00	25.07.18	09.08.18
	CGST		8459.42		
	SGST		8459.42		
	Weswox HL – 55A monocular microscope	10	129800.00	05.08.18	20.08.18
	Haemocytometer	10	12862.00	05.08.18	20.08.18
	Haemoglobinometer	10	12862.00	05.08.18	20.08.18
	Stage micrometer	05	3894.00	05.08.18	20.08.18
	Ocular micrometer	05	1475.00	05.08.18	20.08.18
	GST 18%		24543.00		
	Compound microscope	10	39000.00	19.08.18	03.09.18
	Cyberscan pH tutor	03	48000.00	19.08.18	03.09.18
	Horizontal electrophoresis	03	14700.00	19.08.18	03.09.18
	Vertical electrophoresis	03	19500.00	19.08.18	03.09.18
	Medox Bio power supply	06	31800.00	19.08.18	03.09.18
	Cyclo mixer model	01	4200.00	19.08.18	03.09.18
	Laminar flow horizontal	01	40000.00	19.08.18	03.09.18
	Incubator	01	14500.00	19.08.18	03.09.18
	GST 18%		32166.00		
	Rotary microtome	01	38500.00	12.09.18	27.09.18
	Induction stove	01	3500.00	12.09.18	27.09.18
	GST		7560.00		
	BP apparatus	1	2500.00		25/10/2018
	Glucometer	2	3600.00		25/10/2018
	Personal weighing machine	1	1500.00		25/10/2018
	Micro pipette- variable volume	5	16000.00		25/10/2018
	Micro pipette 2- 20µl	5	16000.00		25/10/2018
	Micro pipette 0.2- 20 µl	5	16000.00		25/10/2018
	Electronic bunsen burner	10	28500.00		25/10/2018
	Soxhlet apparatus 250 ml	1	1850.00		25/10/2018
Round bottomed flask	1	200.00		25/10/2018	
Extractor soxhlet	1	1020.00		25/10/2018	
Condenser medium	1	710.00		25/10/2018	

	Condenser clamp	1	180.00		25/10/2018
	Rubber tube – 1mt	1	80.00		25/10/2018
	Stand	1	450.00		25/10/2018
	Soxhlet apparatus 6 test	1	8500.00		25/10/2018
	Round bottomed flask	1	1200.00		25/10/2018
	Extractor soxhlet	6	6120.00		25/10/2018
	Condenser medium	1	4260.00		25/10/2018
	Condenser clamp	6	1080.00		25/10/2018
	Rubber tube – 1mt	6	480.00		25/10/2018
	GST 18%		19841.00		
	Total		130071.00		
	Electronic balance (0.001g)	1	12800.00		30/10/2018
	Electronic balance (0.01g)	1	7000.00		30/10/2018
	Dry bath heating	1	24500.00		30/10/2018
	Moisture analyser	1	21500.00		30/10/2018
	Hot plate	2	9600.00		30/10/2018
	GST 18%		13572.00		
	Total		88972.00		
	Eprovite silk reeling unit	10	120000.00		10/11/2018
	GST 18%		21600.00		
	Total		141600.00		
	Compound microscope	7	38444.00		22/01/2019
	CGST		3459.96		
	SGST		3459.96		
	Total		45364.00		
	Autoclave vertical	1	43000.00		24/01/2019
	Hot air oven	1	24000.00		24/01/2019
	GST 18%		12060.00		
	Total		79060.00		
	Fume cupboard	1	69000.00		11/02/2019
	GST 18%		12420.00		
	Total		81420.00		
	Haemocytometer		2500.00		11/02/2019
	Ocular micro meter		750.00		
	GST 12%		300.00		
	GST 18%		135.00		
	Total		3685.00		
	GRAND TOTAL		1499997/-		
Botany	Compound Microscope	50	5250	10/08/2018	14/09/2018
	Dissecting microscope	50	2925	15/09/2018	23/10/2018
	Soxhlet 200ml	1	1683.00	17/10/2018	30/11/2018
	Soxhlet 400 ml	1	2435.00		

Botany	Clevenger App.	1	1665.00		
	Haemocytometer	2	5310.00		
	Rotary Shaker	1	37170		
	Weighing balance	2	46453.25	28/11/2018	03/12/2018
	Ganongs photometer	10	1075.65		
	Spectro photo meter	2	75520.00	07/12/2018	17/12/2018
	pH meter	1	12519.80		
	Muffle furnace 6''x6''x12''	1	37,760.00	07/12/2018	03/01/2019
	B.OD.Incubator (505(W)x415(D)x830 (H)MM)	1	76,700.00		
	Induction Stove	2	4248.00		
	Hot plate 10''x12''	1	4307.00		
	Hot plate 8''	1	3127.00		
	Colony Counter	2	17,700	10/12/2018	23.01.2019
	Magnetic stirrer	1	12390.00		
	Rotary Microtome	1	99828.00		
	Rotary Microtome	1	99828.00	20/12/2018	08/01/2019
	Muffle furnace 5''x5''x10''	1	30,680.00	07/12/2018	10/01/2019
	Incubator	1	30,680.00		
	Digital Microscope	1	47200.00	20/12/2018	13/03/2019
	Coir pot machine (SS engineering works)	1	85451.00	20/12/2018	27/02/2019
	Coir pot machine Dyes and Spares(SS engineering works)	1	97450.00	20/12/2018	27/02/2019
Ton split AC with Inverter	1	24523.00	20/12/2018	13/03/2019	
Grand Total			Rs. 1500003.00/-		
Chemistry	Potential meter	15	1,59,030.00	12.09.2018	08.10.2018
	Conductivity meter	15	1,64,610.00	12.09.2018	08.10.2018
	Colorimeter	15	1,68,750.00	12.09.2018	08.10.2018
	P ^H meter	1	6,500.00	12.09.2018	08.10.2018
	CGST		44,900.100		
	SGST		44,900.100		
	Total		5,88,690.00		

Oil bath	1	12,873.25	13.08.2018	01.11.2018
CGST		1158.59		
SGST		1158.59		
Total		15,190.00		
Double beam UV vis spectrophotometer	1	84,300.00	01.12.2018	07.12.2018
CGST		7587.00		
SGST		7587.00		
Total		99,474.00		
Automatic Eight position sample holder	1	51,200.00	01.12.2018	10.12.2018
CGST		4608.00		
SGST		4608.00		
Total		60,416.00		
Display unit and Wavelength Grating unit	1	45,400.00	01.12.2018	11.12.2018
CGST		4086.00		
SGST		4086.00		
Total		53,572.00		
Two si-photodiodes detector	1 set	83,600.00	01.12.2018	12.12.2018
CGST		7524.00		
SGST		7524.00		
Total		98,648.00		
Melting point apparatus	15	53,550.00	29.11.2018	11.12.2018
CGST		4819.50		
SGST		4819.50		
Total		63,189.00		
µP based P ^H meter Labman Model: LMPH-10	2	28,000.00	21.12.2018	01.02.2019
CGST		2520.00		
SGST		2520.00		
Total		33,040.00		
Digital Nephelo/Turbidity meter Make: Systronics	2	46,200.00	21.12.2018	04.02.2019
CGST		4158.00		
SGST		4158.00		
Total		54,516.00		
µ Controller based Flame photometer Make: Systronics with LPG cylinder	1	58,650.00	21.12.2018	05.02.2019
CGST		5278.00		
SGST		5278.00		
Total		69,207.00		

Renewable energy devices- Biogas Accessories for 1 cubic plant	1	59,500.00	02.02.2019	07.02.2019
CGST		1487.50		
SGST		1487.50		
Total		62,475.00		
Electrode for corrosion studies - Cu,Al and MS	3	3300.00	15.02.2019	22.02.2019
Gouy Balance – GMX-02, CA 44, Sample, & Hall Probe	1	74,843.00	11.02.2019	20.02.2019
CGST		6735.87		
SGST		6735.87		
Total		88,315.00		
Gauss meter	1	59,532.00	11.02.2019	27.02.2019
CGST		5357.88		
SGST		5357.88		
Total		70,248.00		
Electromagnet EMU75T	1	65,272.00	11.02.2019	27.02.2019
CGST		5874.48		
SGST		5874.48		
Total		77,021.00		
Multi mantle with clamp – 3 test	1	14000.00	07.02.2019	23.02.2019
Burette Stand metal	25	8500.00	07.02.2019	23.02.2019
Water bath 12holes	1	11200.00	07.02.2019	23.02.2019
Magnetic Pellets	5	1100.00	07.02.2019	23.02.2019
CGST		3132.00		
SGST		3132.00		
Total		41,064.00		
Stop Clock	15	10,050.00	11.02.2019	27.02.2019
CGST		904.50		
SGST		904.50		
Total		11,859.00		
Magnetic Stirrer with hot plate	1	6730.00	26.02.2019	27.02.2019
Magnetic pellet	7	1554.70		
CGST		745.62		
SGST		745.62		
Total		9776.00		
Grand Total		Rs.15,00,000/-		

12b. Recurring Expenditure

Department	Date	Recurring grant	Amount (Rs.)
Zoology	12/07/2018	Guest Lecture- Conservation and its importance	3050.00
	19/07/2018	Guest Lecture- Extremophiles	1110.00
	03/08/2018	Workshop- Separation of DNA / protein	21330.00
	16/08/2018	Hindustan Scientific chemicals	57979.00
	23/08/2018	Guest Lecture- life & secrets of Honey bees	3020.00
	04/09/2018	Guest Lecture- Save Elephants	2550.00
	06/09/2018	Training Programme in Apiculture- TNAU	1000.00
	07/09/2018	Aquaculture visit to Aliyar Dam	8000.00
	19/09/2018 to 20/09/2018	National seminar on Advances in Biological Sciences Research	77294.00
	24/09/2018 to 25/09/2018	Workshop on Bioinformatic tools & its application	4590.00
	26/09/2018	Visit to integrated farming unit, Kanuvai	18540.00
	27/09/2018	Guest Lecture- Conservation of sea turtle	3155.00
	29/11/18	Student Group project	10000.00
	31/09/2018	Gian course - MHRD	3615.00
	03/10/2018	Jayam scientific chemicals	59421.00
	04/10/2018 to 05/10/2018	Wildlife week celebration- intercollegiate competition	20294.00
	07/10/2018	Installation of six Apiary boxes	16500.00
	08/10/2018	Training Programme in Apiculture- TNAU	16500.00
	12/10/2018	Sericulture visit to Udumalpet	22000.00
	15/10/2018 to 16/10/2018	Hands on training in Bacteriology & Biodegradation of textile dyes	16400.00
	22/10/2018	Name boards for Apiculture	2400.00
	11/12/2018	Guest lecture- Environment challenges & mitigation	1500.00
	12/12/2018	Community activity at Puthupathi	4000.00
	11/12/2018 to 15/12/2018	Hands on training on Animal & medical Biotechnology	20800.00
	04/01/2019	Fish pond construction for ornamental fishes	20000.00
	09/01/2019	Guest lecture- Sustainable Aquaculture management	2000.00
	10/01/2019	Guest lecture- Global scenario- utilization and impact of	2000.00

		microplastics	
	11/01/2019	Workshop on silk reeling	3000.00
	22/01/2019	Guest lecture- Global environmental challenges	2000.00
	23/01/2019	Industrial visit to sakthi sugars, Erode	20295.00
	28/01/2019	Books (Text and Reference)	11346.00
	28/01/2019	Apiculture visit & implements	800.00
	12/02/2019	Guest lecture	1500
	18/02/2019	Glass wares	9643
	22/02/2019	Eco trip to Topslip	20000
	25/02/2019	Guest lecture	1500
	25/02/2019	Glass ware	8778
	26/02/2019	Valedictory	2000
	01/03/2019	Glass ware	90
	Total		500,000.00
Botany	28/08/2018	Guest lecture	15,000/-
	10/12/2018	Guest lecture	10,000/-
	18/09/2018	Chemicals (Wintrack Scientific Suppliers)	16990/-
	15/09/2018	Field trip	20,000/-
	04/10/2018	Intercollegiate competitions	20,000/-
	31/10/2018	Glasswares (The Precision Scientific Co.)	69,319/-
	14/12/2018	Field trip	30,000/-
	10/12/2018	Workshop	10,000/-
	02/01/2019	Innovative Practice (Kanmani garden Nursery)	45,000/-
	10/01/2019	Workshop (Poornima mam) Refreshment	3000/- 257/-
	22/01/2019	Chemicals	1,08,013/-
	01/02/2019- 02/02/2019	National Seminar	1,29,175/-
	15/02/2019	Guest lecture	2,000/-
	18/02/2019	International workshop	20,000/-
	27/02/2019	Glasswares	1,246/-
		Grand Total	

Chemistry	17.07.18,04.09.18 29.10.18,31.10.18 22.02.19,26.02.19	Chemicals	1,74,785.00
	04.09.18, 05.09.18 22.02.19, 27.02.19	Glasswares	71,349.00
	07.08.18,15.09.18 06.10.18, 04.01.19 09.01.19, 10.01.19	Institute/Industry visit	60,138.00
	4.10.18, 15.10.18& 16.10.18, 29.10.18 12.12.18, 10.01.19, 19.01.19, 23.01.19 06.02.19, 14.02.19 22.02.19	Seminar/ /Hands on Training Program/ Workshop Organized by the department	95,141.00
	09.08.18, 11.09.18 14.09.18, 25.09.18 15.10.18,11.12.18, 18.12.18, 20.12.18, 21.01.19, 23.01.19 12.02.19, 26.02.19	Guest Lectures	28,628.00
	03.09.18 to 09.09.18 12.12.18 to 15.12.18 19.12.18 to 22.12.18	Workshop attended by Students	37,760.00
	14.09.18 & 15.09.18 22.09.18, 24.11.18	Workshop attended by Staff	8000.00
	06.09.18 , 07.09.18 01.02.19, 19.02.19 07.03.19	Seminar attended by staff & Student	9749.00
	11.09.18, 17.10. 18	Group Project –III B.Sc Students	3650.00
	23.02.19,24.02.19, 26.02.19	Student's publication	4300.00
	21.02.19	Extension Activity	250.00
	28.02.19	National Science day	6250.00
		Grand Total	Rs. 5,00,000/-

13. Details of books & journals subscribed from DBT grant

Department	List of Books	No. of copy	List of journals
Zoology	Fish & Fisheries, Pandey Animal Behaviour, Natarajan Embryology Genetics Ecology & Environment Cell & Molecular Biology Outline of Dairy technology Animal Behaviour Microbiology Aquaculture Bioinformatics Statistical Methods	2 3 3 3 3 3 3 1 2 2 3 2	College subscribes for 1. Indian Journal of Marine Sciences 2. Journal of Science Education 3. Current Sciences 4. Ecology, Environment and Conservation 5. Asian Journal of Microbiology and Biotechnology 6. Indian Journal of Experimental Biology
Botany	Not purchased	-	College subscribes for 1. Journal of Biosciences 2. Journal of Genetics 3. Indian Journal of Biochemistry & Biophysics 4. Indian Journal of Biotechnology 5. Biology today
Chemistry	Not purchased	-	College subscribes for 1. Journal of Chemical Science 2. International Journal of Chemical Science 3. Indian Journal of Chemistry Sec-A

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

Zoology	<ol style="list-style-type: none"> 1. Increased Laboratory resources and practical techniques on an individualized basis have attracted more number of students for PG programmes and subsequent research. 2. Sustained Field visits/Industrial visits/ Hands on training/ Workshops/Guest lectures have kept the students well exposed to real time happenings and motivated them to progress further. 3. Number of students taking up National/State level competitive exams has increased. 4. Provision of Recurring amount has helped the department to sustain all the activities in a dynamic manner. 5. Group projects have held the scientific temper of young minds. Opportunity to present and publish their papers at the UG level. 6. Extensive community and extension activities from lab to land has been executed
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Botany	<ol style="list-style-type: none"> 1. Laboratory infrastructure is strengthened hence students can avail the laboratory facility and can perform the individual practical experiment. 2. Student's exposure to industries, research institute, field visit, educational trip, more guest lectures, training programmes, seminars helps to improve the scientific and technical skill of the students and this leads to placement. 3. Hands on training in instrumentation which improves the scientific temper of the students. 4. Enthusiastic involvement of students in practical and project works motivate the students to go for higher studies and research. 5. Bridging the gap between the schools and colleges leads to strengthening of life science courses.
Chemistry	<ol style="list-style-type: none"> 1. Guest Lectures by Eminent persons in specialized fields enabled the students to have a better understanding of the subject and to know the latest development in the subject. 2. Training on Handling of Instruments like "UV spectro photo meter, Electrochemical Workstation, Flame photometer, P^H meter, Colorimeter, Turbidity meter and Conductivity meter" were conducted by technical persons from various Companies. 3. Purchase of multiple numbers of Instruments help the students perform the experiments individually. 4. Industrial visits, Institute visits, field trip and attending Conferences, Seminars and training Program facilitated the students to have better exposure and deep insight to the subject. 5. Department infrastructure could be strengthened and students could take up the project work utilizing the available infrastructure.

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

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

16. Awards and Achievements

Awards - Faculty

Department	Date	Name of the faculty	Name of the Award	Organizing Committee
Botany	23/01/2018	Dr.M.Saradha	Best Women faculty award	Nature Science Foundation

FACULTY AWARDED Ph. D

Department	Name of the Staff	Date of Registration	Date of Viva-Voce	Title	Name of the Supervisor
Zoology	Dr.D.Vigneshpriya	August, 2015	15.02.2019	Studies on removal of brilliant green dye using marine brown macroalgal biomass <i>Sargassum wightii</i>	Dr. N. Krishnaveni Professor & Head in Zoology Avinashilingam Institute for Home Science & Higher Education for Women, Coimbatore-43
Chemistry	Dr.K.Anbarasi	September 2012	12.07.2018	Corrosion inhibition and industrial application potential of <i>Cucurbita maxima</i> on mild steel and aluminium in acid, alkali and aqueous media	Dr.V.G.Vasudha Associate Professor & Head Department of Chemisty Nirmala College for Women, Coimbatore.
	Dr.S.Kulandai Therese	April, 2014	10.08.2018	Synthesis of fused O,N and S heterocycles and evaluation of their biological and photophysical properties	Dr.G.Geethamalika Associate Professor & Head Department of Chemisty Nirmala College for Women, Coimbatore.
	Dr. P. Dhivya	September, 2011	28.09.2018	Synthesis and exploration of diversified biological, photophysical and theoretical studies on novel heterocyclic scaffolds.	Dr. S. P. Rajendran Associate Professor Department of Chemisty Bharathiya University, Coimbatore.

Achievements:

Department	Date	Name of the student & Class	Achievement	Organising Committee
Zoology	08/10/18 to 09/10/18	Mangaiyarkarasi. R, I M.Sc	1 st Place , Weight Lifting, Power Lifting,	Nirmala College for Women- Coimbatore
	18/11/18 to 19/11/18		1 st Place , Hand ball	Nirmala College for Women - Coimbatore
	07/01/19 to 08/01/19		Silver Medal , 2 nd place, Take Wondo	CMS College of Arts and Science – Coimbatore
	22/01/19 to 23/01/19		1 st Place, Hammer throw	Bharathiar University – Coimbatore
	08/10/18 to 09/10/18	Sowmiya. A, I M.Sc	1 st Place, Best lifter Award, Weight Lifting	Nirmala College for Women- Coimbatore
	18/11/18 to 19/11/18		1 st Place Gold Medal, Hand ball	Nirmala College for Women - Coimbatore
	07/01/19 to 08/01/19		Bronze Medal , 3 rd place, Take Wondo	CMS College of Arts and Science – Coimbatore
	22/01/19 to 23/01/19		1 st Place, Hammer throw	Bharathiar University – Coimbatore
	15/01/18	R. Yasmin Banu	Performer Certificate	Indian Dance Festival -18, Mamallapuram
	26/01/19 to 27/01/19	Sini.G.Nath	Participation	Literary and Cultural Fest, Gujarat
	21/11/18 to 30/11/18	Steffy Mary Thomas	Participation	RDC, PSG College of Arts & Science, Coimbatore
	27/10/18 to 05/11/18		Participation	CATC-CUM-RDC Training Camp- I, kongu Engineering College, Perundhurai, Erode
	17/10/18		Participation	Group Song, NCC Directorate, Tamilnadu, pudhucherry, Andaman & Nicobar
	17/10/18		Participation	Group Dance- I, NCC Directorate, Tamilnadu, pudhucherry, Andaman & Nicobar
	08/10/18 to 17/10/18		Participation	RDC, NCC Directorate, Tamilnadu, pudhucherry, Andaman & Nicobar, KPR Institute of Technology
08/02/19	Participation		RDC Culturals, Nirmala College for Women, Coimbatore	

Competitive Exam cleared	01/01/19 to 29/01/19		Representation	RDC, NCC Directorate, Tamilnadu, pudhucherry, Andaman & Nicobar at Annual NCC Republic Day Camp & Prime minister's Rally, New Delhi
		Aswathi P V	State Eligibility Test (2018)	State Govt
		Anjali Narayanan	State Eligibility Test (2018)	State Govt
		Sudha Priya	Tamil Nadu Public Service Commission (Group 4) (2018)	State Govt
Botany	2018	Ms.Athulya, M.Sc	Cleared UGC – NET JRF	
	15.02.2109 to 17.02.2018	J.Ramya, I B.Sc	Won III rd place & Received cash prize of Rs.50, 000/- For representing Coimbatore District in State games for chief Minister's trophy in Ball badminton	Sports development authority of Tamilnadu held at Kancheepuram
	05.03.2019	J.Deepa &Sree Poornima, II B.Sc	Won I prize in Poster presentation contest as a part of Swacchta Pakhwada	ECOCLUB of Sardar Vallabhai patel International School of Textiles and Management, Coimbatore
Chemistry	14.07.18	K.Veena of II B.Sc chemistry	II prize, Hindustan Arts and Science College, Coimbatore	
	23.07.18	Mrinalini J.Shah of II B.Sc Chemistry	I prize with cash award of Rs.5000	PSGR krishnammal College for Women,Coimbatore
	07.09.18	Sindhu.M , Project Fellow, DST-SERB project	II Prize, Department of Chemistry	PSGR Krishnammal College for Women, Coimbatore
	08.10.18	Anandhi.K of II B.Sc Chemistry	I Prize, Chetna Women Cell,	Nirmala College for Women, Coimbatore
	08.10.18	Hari Gayathri.L of I M.Sc Chemistry	III Prize, Chetna Women Cell	Nirmala College for Women, Coimbatore
	08.10.18	Meghaladevi.K of I B.Sc Chemistry	I Prize, Chetna Women Cell,	Nirmala College for Women, Coimbatore

	08.10.18	A. Reni Joyce of I M.Sc Chemistry	III Prize, Chetna Women Cell, Nirmala College for Women, Coimbatore	Nirmala College for Women, Coimbatore
	24.01.19& 25.01.19	Pinky Mahur of III B.Sc chemistry	Paper Presentation, I Prize	Department of Botany and Bioinformatics, Nirmala College for Women, Coimbatore
	24.01.19& 25.01.19	Suganya.R of II M.Sc chemistry	Paper Presentation III Prize	Department of Botany and Bioinformatics, Nirmala College for Women, Coimbatore
	21.02.19 & 22.02.19	V.Kavitha Research Scholar	Poster Presentation II Prize	Department of BioChemistry, Bio and Bioinformaticstechnology, Avinashilingam University, Coimbatore

EXTENSION ACTIVITIES

Department	Date	Activity	Place	No of Beneficiaries
Zoology	9/7/18 to 20/7/18	Blood grouping & Haemoglobin Testing	Nirmala College for Women, Coimbatore	50 (Staff & Students)
	04/08/18	1. Haemoglobin & Blood group testing 2. Establishment of vermicomposting unit 3. Awareness on honey bee keeping	Kangayampalayam village	75 children & 132 adults
Botany	11/08/18	1. Mushroom cultivation 2. Face pack preparation 3. Hair oil preparation	Kangayampalayam village	30 adults
Chemistry	25/08/18	1. Detergent making 2. Created awareness about the energy consumption and Food habits	Kangayampalayam Village	50
	21/02/19	Awareness programme on “ Ban Plastic.....Save Earth” In this programme, the environmental impact of Plastics on Human beings and	Nirmala Matriculation Higher Secondary School, Red fields, Coimbatore	150

		Eco- systems were explained by Power point presentations and through video clippings. In addition to that, III B.Sc chemistry students distributed pamphlets to school children to reach out the importance on ban of plastic to the Society.		
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BEST PRACTICES

Department	DATE	ACTIVITY	Amount/ Number
Zoology	23/06/18-09/07/18	Harvesting of vermicompost	870kgs (2018-19)
	03/09/18	Ornamental Fish Culture	Maintaining Black and White Molly, Platy and Gold fish.
	08/10/18	Installation of Apiary Box: Species: <i>Apis Cerena indica</i> . In collaboration with Mr.Vivek, Agriculturist , Sree Gopala Honey and oil Products	6 boxes
Botany	Annual maintenance	Medicinal Garden	90 species
	20/12/2018	Organic farming	Sold for Rs1300/-
Chemistry	13/02/19	Installation of Bio-Gas Plant (Wealth from waste) 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. Mr.M.S.Muthusamy, Managing Director, MSM Energy enterprises, Coimbatore	1

RESEARCH PROJECT AWARDS MAJOR/ MINOR PROJECTS

Department	Date	Name of the faculty	Topic	Funding Agency	Amount (Rs.)	Sanctioned/ Ongoing/ Completed
Botany	2019	Dr.T.Anitha	Comparison in yield of oyster +mushroom using biodegradable waste as substrate paddy straw,sugarcane baggasse and Coir waste	TNSCST	7,500/-	Sanctioned
	2019	Dr.Sivasankari	TFdb-A database for transcription factors involved in Human diseases	TNSCST	7,500/-	Sanctioned
Chemistry	2018	Dr. P. Kalaivani	Ruthenium sandwich complexes with N,S donor ligands: DNA/Protein binding, DNA cleavage, Antioxidant activity and Cytotoxicity	Science and Engineering Research Board (DST-SERB), New Delhi Start-up Research Grant (Young Scientists)	24,26,000/-	Completed
	2019	Dr. C. Subha	Investigation of newly synthesized polyamides as corrosion inhibitors	TNSCST	7,500/-	Sanctioned