

DBT Star College Scheme

Program Completion Report (2019-2020)

I. ORIENTATION PROGRAM

S.No	Organizing Department	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1	Star Departments	First Advisory Committee Meeting	Mentoring and Monitoring of Star college activities	30.04.2019	Faculty Members of Star Departments	<ul style="list-style-type: none"> External expert reviewed the execution plan of proposed activities and recommended valuable suggestions to improvise and enhance the quality of learning and teaching process through appropriate skill development programmes
2	All Star Departments	Entrance Test for I UG students	Diagnostic Test	25.06.2019	450 students	<ul style="list-style-type: none"> Assess the current knowledge of the Students'
3	All Star Departments	Induction Program for I UG students - by DBT Advisory Committee External Experts Dr R Rajendran Associate Professor, Department of Microbiology PSG College of Arts & Science, Coimbatore	Induction Program	28.06.2019	450 students	<ul style="list-style-type: none"> Students were given a broad understanding about the distinctive features of DBT Star College Scheme The Experts explained the benefits of various programmes to be implemented by the College under the Star College Scheme and

		Dr. R. PARVATHI Associate Professor and Head Department of Mathematics Vellalar College for Women Erode				advised them to use those opportunities effectively and actively involve in all the innovative activities.
4.	Physics, Biochemistry & Biotechnology	Motivational Talk – Focus, Learn, Grow and Enjoy Dr.A.Velumani, Chairman,Managing Directo and CEO, Thyrocare, Mumbai.	Motivational Talk	19.12.2019	B.Sc., Physics, Biochemistry, Biotechnology students (500)	<ul style="list-style-type: none"> • Students were motivated for goal setting and career prospects. • Students were much inspired by the success story of Dr. Velumani and by his advice on the need to think out of the box and make an attempt to test and challenge their creative thinking to succeed in career and life.

II. SEMINAR/CONFERENCE ORGANISED

S.No	Organizing Department	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1	Biochemistry and Biotechnology	<p>National Symposium on “Mitochondria in Health and Disease” Jointly organized by Society for Mitochondrial Research and Medicine (SMRM), India</p> <p>Dr. K.Thangaraj Chief Scientist CSIR- Centre for Cellular and Molecular Biology (CCMB) Hyderabad, Telangana</p> <p>Dr.Swasti Raychaudhuri DBT – Ramalingaswami Fellow CSIR- Centre for Cellular and Molecular Biology (CCMB) Hyderabad, Telangana</p> <p>Dr. P.Govindaraj Research Scientist Institute of Bioinformatics Bangalore, Karnataka</p>	National Level Symposium	21.02.2020	540 students	<ul style="list-style-type: none"> • The Symposium was organized to foster research derived knowledge on basic science of mitochondria, mitochondrial pathogenesis, prevention, diagnosis, drug discovery and treatment . • The Participants gained immense knowledge on the cutting -edge advances, emerging concepts in mitochondrial medicine and also the current status and future prospects in treatment of Mitochondrial disorders.

2	Mathematics & Physics	State Level Seminar on Mathematical Physics and Quantum Matters Dr. Srinivasa Rao Manam, Professor, IIT, Chennai. Dr. R.Sivaraj, Senior Asst. Professor, School of Advanced Sciences, VIT, Vellore. Dr. L. Senthilkumar, Professor, Bharathiar University, Coimbatore.	State Level Seminar	24.02.2020	Faculties and Students from other Colleges	<ul style="list-style-type: none"> Participants gained knowledge over the quantum computational modeling for various applications through density functional theory and acquired an updated knowledge on recent developments and researches in mathematical Physics
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III. GUEST LECTURES

S.No	Organizing Department	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1	Biotechnology	Guest lecture on Plant Pathology Dr.B.Parameshwari Senior Scientist Indian Council of Agriculture Research, New Delhi.	Guest Lecture	29.06.2019	UG Biotechnology students	<ul style="list-style-type: none"> Students were exposed to different pathological conditions of Sugarcane and Rice
2.	Mathematics	‘Applications of Mathematical Biology’ Dr.Ramajayam Shadevan, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai.	Guest Lecture	10.07.2019	I year students of Mathematics, Physics, Biochemistry and Biotechnology	<ul style="list-style-type: none"> Students can able to apply their Mathematical knowledge to Biological applications

3.	Computer Science	<p>‘Vedic Mathematics’ Dr.P.Balasubramanie Professor & Head Department of CT & IT (PG)Kongu Engineering College, Perundurai.</p>	Special Activity (Guest Lecture)	15.07.2019	First Year Computer Science, Mathematics and Physics Students	<ul style="list-style-type: none"> • Guest lecture on Vedic Mathematics helped students to solve mathematical problems 10-15 times faster. • It would extend the academic performance of the students.
4.	Biochemistry	<p>‘Nitrous Oxide –Double Edged Sword’ Dr. Jaganathan Lakshmanan University of Louisville, Kentucky, USA</p>	Guest Lecture	22.07.2019	150 Students and Faculty members	<ul style="list-style-type: none"> • The lecture gave a new insight into the beneficial and harmful effects of NO synthesis in liver and the current research in this field
5.	Biochemistry	<p>‘Memory – From Brain’s Perpectives’ Dr. S. Sudharshan Melaka Manipal Medical College, Manipal, Karnataka.</p>	Guest Lecture	08.08.2019	150 Students and Faculty members	<ul style="list-style-type: none"> • Dr.S.Sudharshan highlighted the structural organization and various functions of Hippocampus a unique part present in human brain. • He also enlightened the young minds with life examples related to our memory and practices to be followed to keep our brain active. • 19He also clarified all the queries clearly with life examples, which made students to understand the concept very clearly.

6.	Biotechnology	<p>Guest lecture on Application of Mathematics in Biology</p> <p>Dr. R. Parvathi Professor and Head, Department of Mathematics Vellalar College for Women, Erode</p>	Guest Lecture	17-08-2019	II B.Sc Biotechnology and Biochemistry students	<ul style="list-style-type: none"> Students were given information's on various concepts of Mathematics and the methods to apply it in biological field
7.	Biochemistry Biotechnology Physics	<p>Dr. N. Chandra Sekara Retired Professor, CBM College, Coimbatore</p>	Guest Lecture- International Year of Periodic Table	19.08.2019	Star Department Students	<ul style="list-style-type: none"> As Part of International Year of Period Table Celebrations, Guest lectures were arranged to highlight the history of periodic table and stimulate the curiosity of students on the subject.
		<p>Dr. A. Chandramohan Head, Department of Chemistry, Ramakrishna College of Arts and Science College, Coimbatore</p>				
8.	Physics	<p>'Applications of Physics in Medicine'</p> <p>Dr.C.S.Sureka,, Assistant Professor, Department of Medical Physics, Bharathiar University, Coimbatore</p>	Guest lecture	20.08.2019	I B.Sc., Physics students (50)	<ul style="list-style-type: none"> Students gained knowledge on the application of Physics concepts in healthcare and medicine. Also they were exposed to Radiation Physics and awareness on current trends in the concerned field.
9.	Biotechnology	<p>Guest Lecture on Enzyme kinetics and its regulations</p> <p>Dr. S. Mohandass Associate Professor and Head (SF), Department of Biochemistry PSG College of Arts &</p>	Guest Lecture	13.09.2019	I&II UG Biotech Students	<ul style="list-style-type: none"> Students were given information on Enzyme Kinetics and its regulations

		Science, Coimbatore.				
10.	Physics	<p>Guest Lecture on 'Statistical Physics' Dr.S.S. Naina Mohammed, Assistant Professor, Department of Physics, Government Arts College, Udumalpet</p>	Guest lecture	26.09.2019	B.Sc., Physics students (150)	<ul style="list-style-type: none"> • Students acquired knowledge over the subject area and its applications in Heat and Thermodynamics course
11.	Physics	<p>A Glimpse on Quantum Mechanics Dr.N.Shanmugam, Assistant Professor, Department of Physics, Dharma Puram Gnanambigai Arts College for Women, Mayiladuthurai</p>	Guest Lecture	20.12.2019	B.Sc., Physics students (150)	<ul style="list-style-type: none"> • Students gained knowledge on evolution of Quantum Mechanics and its Applications
12.	Biochemistry	<p>Guest Lecture on "Training and Project Awareness in Scientific Literature (Project – MANAV)" Dr. ANUPMA HARSHAL Team – MANAV Indian Institute of Science Education and Research (IISER), Pune, India</p>	Guest Lecture	15.02.2020	225 Students & Faculty Members	<ul style="list-style-type: none"> • The Program on Project -MANAV helped the student to understand DBT , Govt of India initiative to create a comprehensive and integrated human map by assimilating all the known macro-level and micro-level information from scientific literature and public databases. • It also gave an insight for the students as how to systematically utilize the collective human intellect through a team-oriented approach for the extraction of

						high-quality data from scientific literature.
13.	Physics	Societal Applications of Radiation & Radioactivity Mr.R.Mathiyarasu , SO/G Head, Radiological and Biological Dosimetry Section (RBDS), Radiological and Environmental Safety Division, Indira Gandhi Centre for Atomic Research Kalpakkam	Guest Lecture	17.02.2020	I & II B.Sc., Physics students (101)	<ul style="list-style-type: none"> Exposed to types of nuclear radiation, radiation dose and protection. -Understand the imperative applications of radiation in medical and other food reservation areas
14.	Computer Science	Tuning towards IT Industry Mr.S.Santhosh Kumar , Test Engineer Analyst, Accenture Solutions Pvt Ltd, Chennai.	Special Activity (Skill Development Programme)	26.02.2020	II B.Sc (Computer Science) students	<ul style="list-style-type: none"> This programme improved the skills of students in the areas of aptitude problems, Group Discussions and HR interviews.

IV. INTER DISCIPLINARY ACTIVITIES

S.No	Organizing Department	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1..	Biochemistry in association with CSIR-Institute of Genomics and Integrative Biology (IGIB), New Delhi	IndiGen Research Programme (Nationwide Program) Dr. K.R.Sivaprakash Senior Scientist Institute of Genomics and Integrative Biology (IGIB), New Delhi	Blood sample collection for Genome Analysis	12.06.2019	150 Students and Faculty members	<ul style="list-style-type: none"> Helped in understanding how Genomics could influence one's key healthcare decisions and Educate the consequences of personal genomics in Public Health settings Training in Genomics

						and Genome informatics for interested students
2.	Mathematics	Applications of Mathematical Biology Dr.Ramajayam Sahadevan CSIR - Emeritus Scientist Ramanujan Institute for Advanced Study in Mathematics University of Madras Chennai	Guest Lecture	10.07.2019	I year students of Mathematics, Physics, Biochemistry and Biotechnology	<ul style="list-style-type: none"> • Students can able to apply their Mathematical knowledge to Biological applications
	Mathematics	Math Club Inauguration Dr.Ramajayam Sahadevan University of Madras Chennai	Special Talk	10.07.2019	I year B.Sc Mathematics students and Math Club members	<ul style="list-style-type: none"> • To enhance the mathematical talents and individual intelligence for various disciplinary students.
3	Computer Science	Vedic Mathematics Dr.P.Balasubramanie Professor & Head Department of CT & IT (PG) Kongu Engineering College, Perundurai	Special Activity (Guest Lecture)	15.07.2019	First Year Computer Science, Mathematics and Physics Students	<ul style="list-style-type: none"> • Guest lecture on Vedic Mathematics helps students to solve mathematical problems 10-15 times faster. • It extends better and much improved academic performance of the students.

4	Biochemistry	<p>‘Nitrous Oxide –Double Edged Sword’ Dr. Jaganathan Lakshmanan University of Louisville, Kentucky, USA</p>	Guest Lecture	22.07.2019	150 Students and Faculty members	<ul style="list-style-type: none"> The lecture gave a new insight into the beneficial and harmful effects of NO synthesis in liver and the current research in this field
5	Computer Science	<p>Busy Being Born Mr.K.Parivallal Director of DMW CNC Solutions India Pvt. Limited, Perundurai</p>	Special Activity (Personality Development Programme)	30.07.2019	First Year Computer Science, Mathematics and Physics Students	<ul style="list-style-type: none"> This PDP programme enhances the confidence level of the students and makes them stress free. It improves their decision making skills for their successful goal achievement
6	Computer Science	<p>Career Guidance Dr.K.Mangayarkarsi Head – Placement Training RVS College of Arts and Science, Coimbatore</p>	Special Activity (Guest Lecture)	31.07.2019	First Year Computer Science, Mathematics and Physics Students	<ul style="list-style-type: none"> It is essential to plan one’s career. This guest lecture focused on different job opportunities awaiting for the students after their degree completion
7.	Biotechnology	<p>One day workshop on Mushroom Cultivation Mr.L.Gopalakrishnan Mushroom Cultivation Trainer Hardeep Mushroom Farm, Erode.</p>	Workshop	02.08.2019	53 students from departments of Physics, Mathematics, Biochemistry, CT/IT, Biotechnology, Catering Science and Hotel Management and Computer Science	<ul style="list-style-type: none"> Students were given hands on training on the method to prepare Mushroom bed

8	Mathematics	Monthly Activity under Math Club -Alumni Interaction by S.Janani , WIPRO Technologies Coimbatore	Guest Lecture	16.08.2019	I year B.Sc Mathematics students and Math Club members	<ul style="list-style-type: none"> Students got an insight about the skills to be developed for Placement and various competitive examinations
9.	Biotechnology	Guest lecture on Application of Mathematics in Biology Dr. R. Parvathi Professor and Head, Department of Mathematics Vellalar College for Women, Erode.	Guest Lecture	17-08-2019	II B.Sc Biotechnology and Biochemistry students	<ul style="list-style-type: none"> Students were given information's on various concepts of Mathematics and the methods to apply it in biological field
10	Biochemistry Biotechnology Physics	Dr. N. Chandra Sekara Retired Professor, CBM College, Coimbatore	Guest Lecture- International Year of Periodic Table	19.08.2019	Star Department Students	<ul style="list-style-type: none"> As Part of International Year of Period Table Celebrations, Guest lectures were arranged to highlight the history of periodic table and stimulate the curiosity of students on the subject.
		Dr. A. Chandramohan Head, Department of Chemistry, Ramakrishna College of Arts and Science College, Coimbatore				
11.	Mathematics	Monthly Activity under Math Club - Ms.D.Srimathy Operations Executive Infosys Limited Mysuru	Monthly Activity under Math Club	07.09.2019	I year students of Mathematics & Math Club Members	<ul style="list-style-type: none"> Students got an insight about the skills to be developed for Placement and various competitive examinations
12.	Physics	Two days Workshop on 'Smartphone Troubleshooting' (IDP) in association with New Technology , Coimbatore	Workshop	16.09.2019 & 17.09.2019	III B.Sc., Physics, Mathematics, Computer Science students (81)	<ul style="list-style-type: none"> - Exposed to the components in smartphones and gained working and troubleshooting knowledge

13.	Biotechnology	Awareness Talk on 'Career Opportunities in Life Science after Graduation ' Dr. G. Kalyan Kumar Regulatory Manager HCL Technology Solutions, Chennai.	Awareness Talk	21.09.2019	II,III UG Biotech Students & III UG and II PG Biochemistry students	<ul style="list-style-type: none"> Students were exposed to different Career opportunities in Life Science
14	Mathematics	Math Club Monthly Activity	Guest Lecture on "Vedic Mathematics Made Easy"	25.09.2019	Math club Members	<ul style="list-style-type: none"> Students knew about shortcut method for calculations using Vedic Mathematics
15.	Biotechnology	Guest Lecture on Importance of ISO Auditing in Food Industries and Career Opportunities in ISO Auditing Ms.T.Ramya Devi Managing Director Qmax Business Assurance, Chennai	Guest Lecture	04.12.2019	B.Sc Biotechnology, Biochemistry and Catering Science and Hotel Management Students	<ul style="list-style-type: none"> Students acquired knowledge about Importance of ISO Auditing in Food Industries
16.	Mathematics	Math Club Monthly Activity - Guest Lecture on "Introduction to Soft Computing" Dr.U.S.Ragupathy Professor and Head Department of EIE Kongu Engineering College, Perundurai	Math Club Monthly Activity - Guest Lecture	09.01.2020	I year students of Mathematics & Math Club Members	<ul style="list-style-type: none"> Students were given an introduction to FOSS Platform and its benefits
17.	Physics, Biochemistry & Biotechnology	Emerging Trends in Computational Chemistry Dr.P.Perumal Rtd Professor, Department of Chemistry Erode Arts and Science College.	Guest Lecture	21.01.2020	I B.Sc., Physics, Biochemistry, Biotechnology students (139)	<ul style="list-style-type: none"> Students obtained knowledge in the field of Computational Chemistry

18.	Biotechnology	<p>Guest Lecture on Career Opportunities in Medical Transcription</p> <p>Mr.M.Mohan Kumar Training Manager ImedX Information Services Pvt. Ltd. Coimbatore.</p>	Guest Lecture	07.02.20	II B.Sc Biotechnology Students	<ul style="list-style-type: none"> The significance of Medical Transcription were clearly understood by the students and the Career Opportunities were elaborated
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V. WORKHOP / HAND ON TRAINING

S.No	Organizing Department	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1	Physics	Advanced Experimental Physics (Lab visit at Sri Ramakrishna Mision Vidyalaya, Coimbatore)	Workshop	12.07.2019	III B.Sc., Physics students (51)	<ul style="list-style-type: none"> Exposed to advanced level experiments
2	Physics	Hands- on Training on “Physics Laboratory – Overview”	Workshop	26.07.2019 & 29.07.2019	I B.Sc., Physics students (50)	<ul style="list-style-type: none"> Able to handle Multimeter for checking Instruments and Components Gained the knowledge on soldering and constructing simple circuits
3	Mathematics	Workshop (hands on training) on “Dynamic Mathematics Software” Mr.S.Alagupandi Technical Head-Training Aakam Industrial Training and Research Institute Coimbatore	Workshop	03.09.2019 - 04.09.2019	I year B.Sc Mathematics students	<ul style="list-style-type: none"> Students got the skills in open source mathematical software “Geogebra”

4	Biochemistry	<p>One Day Workshop on “Soil Testing” conducted in association with Tamil Nadu Agriculture Department, Erode District Mrs.V.Revathi & Team Assistant Agriculture officer, Tamilnadu Agriculture Department, Erode District</p>	Workshop	24.09.2019	90 Students and Faculty members	<ul style="list-style-type: none"> • This workshop was organized to create awareness about the importance of Soil testing among the students and gain a practical knowledge in soil testing • Students were given practical training in taking samples for soil testing and further processing of the soil • From this workshop students came to understand the procedures to operate the flame photometry, Atomic spectroscopy. • The soil properties examined included pH, electrical conductivity, organic carbon, phosphorus (P), Nitrogen (N), Sulphur, Magnesium, and Calcium.
5.	Computer Science	<p>OS & Linux Administration Mr.K.R.Prasana Kumar, Mr.H.Muthu Krishnan & Mr.A.Jeevanantham Assistant Professors in Information Technology Kongu Engineering College,</p>	Workshop	04.12.2019- 06.12.2019	First Year Students of Computer Science Department	<ul style="list-style-type: none"> • Linux operating is the open-source technology and is completely free to download. • Technical skills on the usage on Linux OS were given to students

		Perundurai,				
6.	Biotechnology	Hands on Training on Histopathology and Chromatography Ms.K.Indhumathi Alumni, Department of Biotechnology, Kongu Arts and Science College	Hands on Training	11.01.2020	49 Students of I B.Sc Biotechnology	<ul style="list-style-type: none"> Students were given hands on training to separate biomolecules from different samples and to perform sectioning of animal cells
7.	Biotechnology	Workshop on Animal Handling	Workshop	20.01.2020	53 Students of III B.Sc Biotechnology	<ul style="list-style-type: none"> Methods to handle animals and the routes of Drug Administration to animals were demonstrated to students
8.	Computer Science	Ethical Hacking Mr.Chandra Prakash Sankar, Cyber Security Consultant and Trainer, Cyber Security and Research Company, Tirupur	Workshop	27.01.2020-29.01.2020	Second Year students of Computer Science	<ul style="list-style-type: none"> This Hands-on workshop gives training to students for right usage of Hacking in Internet Domain.
9.	Biotechnology	Workshop on Bioinstrumentation Mr.A.Balachandar Service Provider Sasti Solution, Avinashi.	Workshop	07.02.2020	49 Students of I B.Sc Biotechnology	<ul style="list-style-type: none"> Students were given hands on training in equipment handling and the working of analytical instruments were demonstrated
10.	Biotechnology	Hands on Training on Hematology Ms. M. P. Sathya Lab Technician Sudha Hospital, Erode	Hands on Training	17.02.2020	49 Students of I B.Sc Biotechnology	<ul style="list-style-type: none"> Hands on were given for students regarding hematological techniques such as blood grouping, blood cell identification, RBC and WBC counting, separation of serum and plasma.

11.	Computer Science	Networking and Hardware Mr.T.Manikandan Proprietor, Q-Technology, Gobichettipalayam.	Workshop	17.02.2020- 19.02.2020	First Year students of Computer Science	<ul style="list-style-type: none"> • This workshop dealt with the various software, hardware and connectivity issues of a computer network and system. • Students gained knowledge on the technical skills of the networking problems.
12.	Mathematics	Workshop on “FISICA Lab” Dr.V.Umarani Assistant Professor PSG College of Technology, Coimbatore	Workshop	19.02.2020	I year B.Sc Mathematics students	<ul style="list-style-type: none"> • Students knew Physics calculations using mathematical software

VI. FACULTY DEVELOPMENT PROGRAM

(A). ORGANISED

S.No	Organizers	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1.	Mathematics, Computer Science and Physics	Faculty Development Programme Cum Hands on Workshop in MATLAB Mr.D.Rajkumar Application Engineer Design Tech Systems (MathsWorks- MATLAB), Chennai	FDP	08.06.2019	34 Staff Members from Department of Mathematics , Computer Science and Physics	<ul style="list-style-type: none"> • Staff members gained knowledge on MATLAB software.

2.	Biochemistry	Faculty Development Programme Cum Hands on Workshop In Histopathological and Immunological Techniques	FDP	22.02.2020-23.02.2020	10 Staff Members from Department of Biochemistry and Biotechnology	<ul style="list-style-type: none"> Staff members gained knowledge on recent developments and current status in Histopathological and Immunological Techniques.
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(B) ATTENDED

S.No	Faculty Attended	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Organisers	Program Outcome
1.	Dr. C.Deepa Head, Biotechnology Department	Faculty Development Program on Food Analysis	FDP	06.05.2019 - 10-05-2019	Mettex Lab, Chennai	<ul style="list-style-type: none"> Exposed to various Quality Control Techniques that are carried out for Quality assessment of food items.
2.	Dr.C.Deepa Dept Coordinator/ Biotechnology Department Dr.S.Nagarajan Dept Coordinator/ Mathematics Department Mr.P.Ramesh Dept Coordinator/ Computer Science	Refresher Programme	FDP	06.08.2019 - 07.08.2019	Christ University, Bangalore	<ul style="list-style-type: none"> Faculty Member was given additional information on the usage of Online tools for effective Teaching and

	Department Ms.K. Maithilee Dept Coordinator/ Physics Department					Learning
3.	Ms.K. Maithilee Dept.Coordinator/ Physics Department	One day National Conference on “Recent Trends in Smart Materials and Technologies in Bio Resources and Environment Safety”	CSIR sponsored One day National Conference	04.09.2019	Vellalar College of Engineering and Technology	<ul style="list-style-type: none"> Attended and Presented Paper on “A review on solid polymer electrolytes and its applications”
4.	Ms.R.Chitra Faculty, Physics Department	One day National Conference on “Recent Trends in Smart Materials and Technologies in Bio Resources and Environment Safety”	CSIR sponsored One day National Conference	04.09.2019	Vellalar College of Engineering and Technology	<ul style="list-style-type: none"> Attended and Presented Paper entitled “Study on ionic conductivity of biopolymer electrolyte iota carrageenan with lithium salts”
5.	Mr.G.Karthikeyan Faculty, Biochemistry Department	Hands on Training on “ Bioprospecting: Instrumentation methods and Phytochemical Analysis”	Workshop	19.09.2019 - 20.09.2019	Institute of Forest Genetics and Tree Breeding (IFGTB), Coimbatore	<ul style="list-style-type: none"> Faculty Member was exposed to Isolation techniques of bioactive compounds in the lab and <i>phytochemical analysis</i> of the crude extract using HPLC, HPTLC, GC-

						MSMS .
6.	Ms. R.S.Cindhu Faculty, Biotechnology Department	International Conference on Impact on innovations in Science and technology for Societal development	International Conference	19.09.2019 - 21.09.2019	Kongunadu Arts and Science College, Coimbatore	<ul style="list-style-type: none"> Faculty Members were exposed to recent innovations and various techniques in the field of Life Science
7.	Ms.S.Sathya Faculty, Biotechnology Department	National Level Seminar on Novel Microbial Technologies for Sustainable Development	National Level Seminar	11.10.2019	GRD College of Science, Coimbatore	<ul style="list-style-type: none"> Faculty Member was facilitated to understand different Microbial Techniques
8.	Dr. A.K.Vidya Programt Coordinator/ Biochemistry Department Dr.N.Sangeetha Dept Coordinator/ Biochemistry Department Mr.P.Ramesh Dept Coordinator/ Computer Science Department Mr. Akashnarayana Asst.Professor/ Physics Department	National Seminar on 'Education,Neuroscience,Technology and Pedagogy: Neuro-systemic influence on Learning'	National Level Seminar	12.11.2019 - 14.11.2019	Christ University, Bangalore	<ul style="list-style-type: none"> Dr.A.K.Vidya Presented Paper entitled 'Evaluation of Learning Styles among Undergraduate and Postgraduate students - A Novel Approach' Faculty Members got an insight on the Neuroscience

						<p>based learning style Preferences, Teaching Methodologies Artificial intelligence.</p> <ul style="list-style-type: none"> • They also learnt Modern Pedagogy tools for effective transformation in Teaching and Learning inside and outside Classroom.
9.	Ms.R.Chitra Faculty, Phyics Department	Training on “Fabrication of lithium ion battery”	Internship	15.11.2019 – 25.11.2019	Pondicherry University, Pondicherry	<ul style="list-style-type: none"> • Acquired practical knowledge on fabrication of coin cells and rechargeable batteries
10	Ms.K. Maithilee Dept.Coordinator/ Physics Department	National Seminar on Research Based Pedagogical Tools	DBT sponsored Seminar	05.12.2019 - 07.12.2019	Vellalar College for Women (Autonomous), Erode	<ul style="list-style-type: none"> • Gained knowledge to develop Research based Pedagogical tools for Teaching-Learning process

11.	Ms.M.Muthu Abirami Faculty, Biochemistry Department	UGC Refresher Course on “Degree College Teacher’s Training Program in Biology and Life sciences”, MHRD, Government of India	UGC Refresher Course	22.11.2019 – 12.12.2019	Indian Institute of Science (IISc), Bangalore	<ul style="list-style-type: none"> Faculty Member was exposed to various techniques in the field of Life Sciences
12.	Mr.P.Mahesh Kumar Ms.R.Yuvarekha Ms.D.Jayabrindha Faculty members, Mathematics Department	CSIR – NET Preparative program for Mathematics	CSIR – NET Preparative program	30.11.2019, 01.12.2020 & 07.12.2020, 08.12.2020	PSG College of Technology, Coimbatore	<ul style="list-style-type: none"> Faculty members were detailed with the importance on CSIR-NET, SET, GATE and NBHM Learnt the cracking techniques of national wide competitive exams
13.	Ms.K. Maithilee Faculty, Phyics Department	National Seminar on Research Based Pedagogical Tools	DBT sponsored Seminar	05.12.2019 - 07.12.2019	Vellalar College for Women (Autonomous), Erode	<ul style="list-style-type: none"> Gained knowledge to develop Research based Pedagogical tools for Teaching-Learning
14.	Dr. T.Velumani Dr. R.Pushpalatha Faculty, Computer Science Department	International Conference on Recent Trends in Advanced Computing- ICRTAC 2019	UGC Sponsored Conference	13.12.2019 & 14.12.2019	Erode Arts and Science College, Erode	<ul style="list-style-type: none"> Faculty members gained knowledge in new trends in advanced computing. They also presented

						papers in recent research areas in computing
15.	Ms.C.Radhamani, Faculty, Mathematics Department	International Conference on Mathematical Techniques and its Applications and paper presented on “Cristification of Temporal Instuitionalistic Fuzzy”	International Conference	30.01.2020, 31.01.2020 & 01.02.2020	DST-SERB Sponsored and SRM Institute of Science and Technology, Kattankulathur.	<ul style="list-style-type: none"> • The conference provided a premium forum for researchers. • It also helped to Share and discuss novel ideas
16.	Ms.S.Gayathri Faculty, Biotechnology Department	Faculty Development Program (FDP) cum Training on Advanced Analytical Instrumentation.	FDP	17.01.2020 - 18.01.2020	NutriScience Research Laboratory Pvt Ltd, Salem	<ul style="list-style-type: none"> • Faculty member was trained in various analytical techniques and also enriched the knowledge in chemical testing
17.	Ms.R.Chitra Faculty, Phyics Department	Two day International conference on “Innovations in Physical Sciences, Information Technology and Social Sciences”	International Conference	14.02.2020 & 15.02.2020	Sri VidyaMandir Arts and Science College (Autonomous), Uthangarai	Presented Paper entitled “Comparative study of lithium cation based iota carrageenan solid natural polymer electrolytes”

18.	Mr. P.Ramesh Dr. V.Krishnaveni Dr. K.G.Santhiya Mr. P.Ilayaragu Mr. S.Jeganathan Dr. R.Pushpalatha Ms. K.Gomathy Faculty, Computer Science Department	National Conference on “INDIA-CHINA’S New Digital Landscape”	ICWA Sponsored Conference	13.02.2020 & 14.02.2020	Navarasam Arts and Science College for Women, Erode	<ul style="list-style-type: none"> Faculty members gained knowledge on India-China’s new digital landscape
19.	Ms.M.Geetha Dr. R.Pushpalatha Ms. K.Gomathy Faculty, Computer Science Department	A National Level Seminar on " Recent Trends in Advanced Technologies & Machine Learning"	National Seminar	17.02.2020	Nandha Arts and Science College, Erode	<ul style="list-style-type: none"> Faculty members acquired knowledge in recent advanced technologies in computing and Machine Learning
20.	Ms. P.Thenmozhi Ms. M.S.Kokila Ms.M.Geetha Dr. R.Pushpalatha Ms. K.Gomathy Mr.A.R.Karthekeyan Ms. S.Gowthami Mr. S.Sivaraja Faculty, Computer Science Department	National Level Seminar on "Ethical challenges in Cyber Security"	TANSICHE Sponsored National Seminar	21.02.2020	Erode Arts and Science College, Erode	<ul style="list-style-type: none"> Faculty members attained knowledge on Cyber Security and various Ethical challenges faced in Cyber Security

21.	Mr. P.Ramesh Dr. V.Krishnaveni Dr. K.G.Santhiya Ms.M.Geetha Dr. R.Pushpalatha Ms. K.Gomathy Ms. S.Gowthami Ms.R.Saveetha Mr.A.R.Karthekeyan Faculty, Computer Science Department	One Day National Level Conference on Recent Technologies in Computer Science and Its Applications	National Seminar Conference	28.02.2020	Kaamadhenu Arts and Science College, Sathayamanglam, Erode	<ul style="list-style-type: none"> Faculty members explored recent technologies in Computer Science and its Applications. They also presented papers on the innovative research areas in Computer Science
22.	Dr. A.K.Vidya Programt Coordinator/ Biochemistry Department	International Conference on Biomillineum 2020	International Conference	03.03.2020 - 04.03.2020	Vivekanandha College for Women Thiruchengode	<ul style="list-style-type: none"> Dr A.K.Vidya Attended and Presented Paper entitled ' A Study on Antioxidant Vitamins, Minerals and Trace Elements In the Prognosis and Screening of Cervical Cancer Patients'
23.	Mr. P.Ilayaragu Mr.A.R.Karthekeyan Faculty, Computer Science Department	National Workshop on "Artificial Intelligence & Machine Learning"	National Workshop	05.03.2020 & 06.03.2020	Sri Ramakrishna Mission Vidhyalaya College of Arts and Science, Coimbatore	<ul style="list-style-type: none"> Faculty members got additional knowledge in the domain of Artificial Intelligence

						<ul style="list-style-type: none"> • Hands on training were given to them on Machine Learning and Deep Learning
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VII. FACULTY IMPROVEMENT PROGRAM

(A). ORGANISED

S.No	Organizers	Program Topic	Workshop//FDP	Date	Beneficiaries	Program Outcome
1.	Computer Science	Faculty Improvement Programme on “ PC Software and Hardware Trouble Shooting ” Ms.P.Thenmozhi Mr.R.Sivaraja Ms.R.Saveetha Mr.D.Gopinath Faculty member, Computer Science Department	FIP (Faculty Improvement Programme)	12.06.2019	18 Non-Teaching Staff Members	<ul style="list-style-type: none"> • Non-Teaching Staff Members incorporated skills on PC Software and Hardware Trouble Shooting
2.	Biochemistry Biotechnology and Physics	Training Program on 'laboratory safety, reagents preparation and maintenance of Laboratory instruments NutriScience Research Laboratory Pvt. Ltd., Salem	FIP (Faculty Improvement Programme)	10.02.2020 – 11.02.2020	4 Non-Teaching Staff Members from Biochemistry Biotechnology and Physics	<ul style="list-style-type: none"> • Non-Teaching Lab Assistants acquired knowledge and understanding of general lab equipments, reagent preparation and safety procedures to be followed for proper maintenance of Laboratory.

(B) ATTENDED

S.No	Faculty Attended	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Organisers	Program Outcome
1.	Ms. Chitra Ms. Rani	Two days Workshop on PFMS-EAT Module	FIP	30.07.2019 – 31.07.2019	Kongunadu Arts and Science College, Coimbatore	<ul style="list-style-type: none"> • .Trainees in various aspects of PFMS –EAT (Expenditure –Advance Transfer)Module including User creation, adding the account, Expenditure posting, Advance, Transfer and Utilisationcertificate generation etc.,

VIII. COMPETITION FOR STUDENTS

S.No	Organizing Department	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1	Biotechnology	Model Presentation on Nature and Energy Conservation	Competition	31.07.2019	Participants -UG Biotechnology students. Visitors – I,II and III UG students from all departments	<ul style="list-style-type: none"> • Students were able to come out with different ideas as models to conserve nature, natural resources and energy
2	Mathematics	Monthly Activity under Math Club -Speech Competition on “ Contributions of Indian Mathmaticians”		31.07.2019	I year B.Sc Mathematics students and Math Club members	<ul style="list-style-type: none"> • Students knew about the contributions by Indian Mathematicians and improved their communication and speech skills

3	Biochemistry	'BioFlair ' Intra Department Competition - Express & Impress Talent Contest	Student Competition	06.08.2019	183 Students	<ul style="list-style-type: none"> • The Biochemistry students showcased their talents by exhibiting their creativity and knowledge regarding Biochemistry field at BIOFLAIR - 'EXPRESS and IMPRESS' Intra department competition • Prizes were awarded to the Best Science and Talent exhibits
4	Biochemistry Biotechnology Physics	International Year of Periodic Table competition	conducted a Quiz competition for Star Department Students	13.08.2019	Star Department Students	<ul style="list-style-type: none"> • As part of International Year of Periodic Table celebrations, competitions were conducted to test students' knowledge and key information's of the Periodic table
5	Biochemistry Biotechnology Mathematics, Computer Science and Physics	Science Fest	Interschool Science Exhibition Competition	27.08.2019	150 School students & Star Department Students	<ul style="list-style-type: none"> • Interschool Science Exhibition Competition is conducted with the objective of <ul style="list-style-type: none"> ➤ Fostering Scientific Passion, Curiosity and Creativity among the students ➤ Providing a platform to exhibit and share their knowledge in Science and Technology with

						innovative ideas
6.	Biochemistry Biotechnology Mathematics, Computer Science and Physics	27 th National Children Science Congress- in Association with Tamilnadu Science Forum	District level Project Presentation on 4 different themes <ul style="list-style-type: none"> • Ecosystem and Ecosystem Services • Health Hygiene and Sanitation • Society, Culture and Livelihood • Traditional Knowledge System • Waste to Wealth 	04.11.2019	215 School Students	<ul style="list-style-type: none"> • Students enthusiastically presented 107 Projects on local social native problems under different themes specified for the contest and 8 best Projects were selected for the State Level Competition
7.	Biotechnology	‘Biofair’ - An Exhibition of Natural and Value Added Biological Products	Exhibition	28.01.2020	Participants -UG Biotechnology students. Visitors –UG and PG students from all Departments	<ul style="list-style-type: none"> • Students exhibited novel natural and value added biological products and gave awareness about the significance of natural products
8.	Biotechnology	Instacrackers	An Intramural Quiz Competition	06.02.2020 18.02.2020	UG Biotechnology Students	<ul style="list-style-type: none"> • Students enthusiastically participated in the quiz competition and developed their informative skills in different fields of Biotechnology

9.	Mathematics	Monthly Activity under Math Club – Intra Club Competitions on “MathZine”	1. Shape Sketching 2. Magic Squares with Unique solution 3. Brain Teasing Puzzles & Riddles. Connection 4. The Complete Man	14.02.2020 15.02.2020	I year B.Sc Mathematics students and Math Club members	<ul style="list-style-type: none"> The competitions explored the talents and mathematical interests of students..
10.	Physics	Accelerate - Intra departmental competitions on “Quiz, Inventors & Inventions”	Intra departmental competitions	19.09.2019	UG Physics Students	<ul style="list-style-type: none"> Students participated in various competitions and share their knowledge in the field of Physics

IX .EXTENSION ACTIVITY

S.No	Organizing Department	Program Topic	Seminar/Workshop/ Guest lecture/FDP/ Extension Activity	Date	Beneficiaries	Program Outcome
1	Biochemistry	Blood Grouping Identification Tests	Extension Activity	30.07.2019	150 School student of Govt. Hr. Sec School, Kanagapuram,	<ul style="list-style-type: none"> Every individual child should know his/her blood group so that no time is wasted during emergency for determining blood group. This Camp helped to identify Blood group of Government School Students
2	Biochemistry	Blood Donation Camp, in association with Lions	Extension Activity	02.08.2019	244 Blood donors donated	<ul style="list-style-type: none"> Many Student volunteers and Staff

		Club of Erode, Midtown			Blood	<p>participated to donate blood.</p> <ul style="list-style-type: none"> This event was organized to create awareness about the importance of donation of blood in the local communities. (The drive successfully had 240 donors which included Student volunteers and Staff)
3	Computer Science	Hands-on Training on Computer Hardware and Troubleshooting for Government School Teachers	Extension Activity	31.08.2019	Government School Teachers	<ul style="list-style-type: none"> School Teachers gained knowledge on Computer Hardware and Troubleshooting skills. This training programme helped them to identify the hardware problems and to rectify them easily by their own.
4	Mathematics	Extension Activity for I B.Sc Students	Extension Activity (Apex School for Deaf and Dumb, Slatterpuram, Perunduari)	12.09.2019	I year B.Sc Mathematics students	<ul style="list-style-type: none"> Provided the needy things(Gas stove ,Fan, Learning Kits) and Refreshment Taught Mathematical calculations using playway method ,Conducted games and distributed prizes for the children.
5.		HSC level Physics	Extension Activity	04.10.2019	XI and XII students of	<ul style="list-style-type: none"> This helped the school students to execute

	Physics	Practicals to Govt school students			Government Hr. Sec. School, Thindal (34)	practicals in their curriculum and acquire confidence to face practical exam
6.	Biotechnology	Biofissions - Awareness talk on Food Insecurity and Health outcomes	Extension Activity	06.12.2019	I UG students of all the departments	<ul style="list-style-type: none"> Students are given an awareness on the importance of health, food conservation and simple methods to preserve food for future use.
7.	Biochemistry	Blood Donation Camp, in association with Lions Club of Erode, Midtown	Extension Activity	30.01.2020	324 Blood donors donated Blood	<ul style="list-style-type: none"> Blood Donation Camp organized to mark the occasion of Martyr' day Blood group directory of UG and PG students released on the occasion. Many Student volunteers and Staff participated to donate blood. Trend setter award given for blood donor who had donated blood for three or more times.
8.	Mathematics	Abacus Training for the children of Panchayat Union Primary School at Kathirampatti	Extension Activity	03.02.2020.	I year B.Sc Mathematics students	<ul style="list-style-type: none"> Conducted games and distributed prizes for the children. Abacus Training was given to make simple methods of calculations
9.	Biotechnology	Outreach Programme for Self Help Group on	Outreach Programme	16.02.2020	Members of Self Help Group	<ul style="list-style-type: none"> They were given hands on training on

		Mushroom cultivation				the method to prepare Mushroom bed
10.	Physics	Awareness on “Electricity conservation and safety measures” to Kathirampatti village people and the children of Panchayat Union Primary School, Kathirampatti	Outreach Activity	16.02.2020	Panchayat Union Primary School students of Kathirampatti village and village people	<ul style="list-style-type: none"> • School students and Public were made to understand the usage of energy saving bulbs smart power strips. • Also awareness on electrical hazards and basic electrical safety measures were provided
11.	Biochemistry Biotechnology Mathematics, Computer Science and Physics	Donated Personal Protective Equipments and Medical accessories to IRTT Hospital, Perundurai in support of managing the pandemic Corona disease outbreak in Erode District.	Extension Activity	30.03.2020	Health care Workers and Corona Virus affected Patients	<ul style="list-style-type: none"> • Donated Personal Protective Equipments like Masks, Soft gloves and Medical accessories like Bedsheets and Pillows to IRTT Hospital, Perundurai helping tackle virus outbreak • We feel privileged to be a part of this humanitarian journey in offering the possible help to them at this hour of need to fight against the Pandemic Corona crisis

Industrial Visit Report (2019 – 2020)

S.No	Department	Place of Visit	Date of Visit	Beneficiaries	Learning Outcome
1.	Biochemistry	Karnataka Soap Factory, Mysore	23.08.2019	58 Students 2 Faculty Members	<ul style="list-style-type: none"> Students learnt many things such as manufacturing, packaging and coordinated functioning of all departments that plays a huge role in the success of an organization.
2.		Indian Astrophysics Solar Observatory Unit Kodaikanal	22.08.2019	41 Students 1 Faculty and 2 Non-Teaching Members	<ul style="list-style-type: none"> Students learnt about the Signal Transmission from celestial bodies and data's correction from stars and other Bodies in sky. They understood the principle and working of telescope for planet observation
3.		Bee Farming Unit Sivagiri	13.12.2019	20 Students 2 Faculty Members	<ul style="list-style-type: none"> Students got an insight into the potential of Apiculture as an alternative source of income generation. Students learnt the production cost, major constraints and opportunities in honey production.
4.		Central Leather Research Institute, Chennai	20.12.2019	40 Students 2 Faculty Members	<ul style="list-style-type: none"> The students got an insight into the various steps that was involved in the manufacturing of Leather for shoes, bags etc. Students were also enlightened on the methods of Waste water treatment an important step to control water pollution. It was a very good learning experience for the students and teachers.

5.		Pasteur Institute of India, Coonoor	03.02.2020	45 Students 2 Faculty Members	<ul style="list-style-type: none"> • During the visit the students were briefed about the vaccines and their preparation methodology also were given demonstration by the experts from the institute. • The students expressed their views over the current methodology and showed their interest to develop their practical skills.
6.	Biotechnology	Parle Biscuits Pvt Ltd, Chennai	23.08.2019	III B.Sc Biotechnology (47)	<ul style="list-style-type: none"> • Students were taken to Parle G industry and they got a clear idea in processing and packaging of baked products
7.		Central Silk Board, Mysore	23.08.2019	II B.Sc Biotechnology (50)	<ul style="list-style-type: none"> • Students visited CSRTI and understood the mechanization in mulberry cultivation and methods of silkworm rearing
8.		Central Leather Research Institute(CLRI) and Birla Planetarium, Chennai	22.11.2019	I B.Sc Biotechnology (42)	<ul style="list-style-type: none"> • The processing of Leather were clearly explained to students and they were given exposure to the methods involved in the production of various leather products
9.		Common Effluent Treatment Plant, SIPCOT, Perundurai	07.12.2019	II B.Sc Biotechnology (47)	<ul style="list-style-type: none"> • Students visited Effluent treatment plant and understood the Primary, Secondary and Tertiary treatment of Wastewater and came to know about the significance of Zero discharge
10.		Aavin Diaries, Chithode	13.01.2020	I B.Sc Biotechnology (49)	<ul style="list-style-type: none"> • The processing of Milk was introduced to the students and was given a clear idea about the fermented milk products.

11.		Pasteur Institute of India, Conoor	03.02.2020.	III B.Sc Biotechnology (49)	<ul style="list-style-type: none"> • Students were exposed to the methods of vaccine production and were taught about the basic steps in development of drugs.
12.	Mathematics	Fluid Control Research Institute (FCRI), Palakad	24.08.2019	I year B.Sc Mathematics students	<ul style="list-style-type: none"> • Got the awareness of functions, activities, internships and short-term courses available in FCRI • Learnt the process of fluid flow measurements and control techniques
13.		Visveshvaraya Technological Museum, Bangaluru	17.02.2020	I year B.Sc Mathematics students	<ul style="list-style-type: none"> • Students came to know about various science models using mathematical applications.
14.	Computer Science(UG)	Chips Software Systems, Cochin	01.02.2020	I B.Sc(Computer Science) Students	<ul style="list-style-type: none"> • Students gained knowledge about working principle of IT Industry, Software Testing and about DOT NET Technology.
15.	Physics	Visit to G D Naidu Museum	01.02.2020	II B.Sc., Physics students (50)	<ul style="list-style-type: none"> • Students were able to know the evolution of electric motor, car models and many gadgets
16.		Visit to Indian Institute of Astrophysics (kodaikkanal)	21.02.2020	I B.Sc., Physics students (46)	<ul style="list-style-type: none"> • Students were motivated towards Astrophysics and they come to know the current researches in it