



KONGU ARTS AND SCIENCE COLLEGE, (AUTONOMOUS), ERODE – 638 107

DBT STAR COLLEGE SCHEME

Programme Completion Report (2023-2024)



I. ORIENTATION PROGRAM

S. No	Organizing Department	Program Topic	Date	Beneficiaries	Program Outcome
1	All Star Departments	Diagnostic Test for I UG students	26.06.2023	320 students	<ul style="list-style-type: none">Students' understanding of subject areas or skill bases was assessed through diagnostic tests, enabling faculty members to effectively measure their knowledge levels and plan the curriculum accordingly.
2	All Star Departments	Orientation Program By External Expert Dr. R. Rajendran Associate Professor, Department of Microbiology, PSG College of Arts & Science, Coimbatore	01.07.2023	340 students	<ul style="list-style-type: none">The Program facilitated comprehensive understanding of the distinctive features of DBT Star College Scheme and its effective utilization.The Expert members actively engaged in interactive sessions with both faculty and students, focusing on the ongoing progress and effective implementation strategies of the Star College Scheme. During these sessions, students enthusiastically shared the numerous benefits they experienced through hands-on workshops, interdisciplinary projects, guest lectures, and industrial visits.

II. SEMINAR/CONFERENCES ORGANISED

S. No	Organizing Department	Program Topic	Resource Persons	Date	Beneficiaries	Program Outcome
1	Mathematics	National Seminar on Recent Trends in Discrete Mathematics	<p>Dr. T. Tamizh Chelvam CSIR Emeritus Scientist Formerly Senior Professor of Mathematics Manonmaniam Sundaranar University, Tirunelveli</p> <p>Dr.T.Asir Associate Professor Ramanujan School of Mathematical Sciences Pondicherry University Puducherry</p>	28.02.2024	148 Participants	<ul style="list-style-type: none"> Research interest is inculcated among the students and the researchers got new ideas in latest developments of Discrete Mathematics and shared their knowledge

III. GUEST LECTURES ORGANISED

S. No	Organizing Department	Resource Persons	Program Topic	Date	Beneficiaries	Program Outcome
1	Computer Science	Mr. K. A. Kannan HR Trainer Psychologist Mayiladuthurai	Special Lecture on “Role and Responsibility”	20.07.2023	Students of First Year Computer Science & Computer Science with Data Analytics (161)	<ul style="list-style-type: none"> This programme taught students about their basic roles and responsibilities, emphasizing the importance of focusing on existing facilities and managing their day-to-day tasks efficiently.

2	Computer Science	Ms.S.Umamaheswari Trainer Mana Vala Kalai Mandrum Erode	Special Lecture on “ Yoga for Health and Happiness ”	20.07.2023	First Year Computer Science & Computer Science with Data Analytics Students (155)	<ul style="list-style-type: none"> This activity enlightened students about the importance of Yoga education, highlighting its benefits in maintaining self-discipline, self-control, concentration, and a higher level of consciousness.
3	Computer Science	Mr.S.Suganesh (Alumnus) Business Analyst Robosoft Technology Karnataka	Special Lecture on “ Unlocking Your Potential ”	21.07.2023	Students of Computer Science and Computer Science with Data Analytics (431)	<ul style="list-style-type: none"> This programme aimed to identify and activate the strengths of students, helping them become more confident in their abilities and empowering them to perform better.
4	Computer Science	Ms.V.Kanchana Assistant Professor in English	Special Lecture on “ Effective Communication in Digital Era ”	21.07.2023	First Year Computer Science & Computer Science with Data Analytics Students (155)	<ul style="list-style-type: none"> This Programme can help the students connect with others, express empathy, resolve conflicts, and establish a supportive network.
5	Mathematics	Dr.J.Deenathayalan National director, JCI India Principal Gandhi Arts & Science College Sathyamangalam	Guest Lecture on “ Opportunities for Mathematics Students ”	31.07.2023	Mathematics Students (150)	<ul style="list-style-type: none"> This programme informed students about the importance of pursuing higher studies in Mathematics and the various opportunities available to Mathematics students.
6	Physics	Dr.P.Yasotha Assistant Professor Department of Physics Sri Vasavi College, Erode	Guest Lecture on “ Perspectives of Nuclear Energy ”	01.08.2023	Physics Students (46)	<ul style="list-style-type: none"> Through this program, Students gained an overview of nuclear weapons and were educated on nuclear waste disposal.

7	Biotechnology	Dr.SinoshSkariyach Assistant Professor, Department of Microbiology St.Pius X College, Rajapuram, Kannur University Kasargod, Kerala.	Special Plenary Session on ‘Bioinformatics Based Approaches for Novel Drugs Against Emerging Infectious Diseases’	02.08.2023	Students of Biotechnology Department (171)	<ul style="list-style-type: none"> This lecture highlighted the importance of research in Bioinformatics and its crucial role in addressing societal needs. The speaker discussed the benefits of engaging in Bioinformatics research, sparking student interest in the field and exploring numerous global opportunities.
8	Biochemistry	Dr.G.Vijayalakshmi , Former Deputy Director, CSIR - Central Food Technological Research Institute (CFTRI), Mysore	Guest Lecture on “Traditional Foods as Medicine”	07.08.2023	Students and Faculty members of Biochemistry Department (79)	<ul style="list-style-type: none"> This lecture highlighted the use of traditional foods as medicines, emphasizing a holistic view of diet in health management and disease prevention.
9	Computer Science	Mr.P.Bernard Arockiam Corporate Trainer Livewire Chennai	Guest lecture on “Mobile Applications Using Android Studio”	25.08.2023	Students of Final Year Computer Science (83)	<ul style="list-style-type: none"> The students were given training to create and manage Android Applications.
10	Biotechnology	Dr.K.Mangayarkarasi , Director – RVS Training Academy, Rathnavel Subramanian College of Arts and Science (Autonomous), Sulur, Coimbatore	Career Guidance Programme “Interview Planning and Preparation”	15.09.2023	Students of Biotechnology Department (60)	<ul style="list-style-type: none"> The objective of this programme was to impart tips to students on how to plan their studies abroad and attend interviews confidently. The Resource Person discussed various career opportunities in the field of Biotechnology. The session was interactive and informative, receiving positive feedback from the students.

11	Physics	Mr.T.P.Saravanan Assistant Professor Management Studies Kongu Engineering College (Autonomous) Perundurai Erode	Special Lecture on “ Upskill Yourself ”	20.09.2023	Students of Physics Department (35)	<ul style="list-style-type: none"> The Resource Person addressed the gathering on various essential skills, including time management, self-awareness, communication, critical thinking, decision-making, problem-solving, presence of mind, leadership qualities, and teamwork. These skills were taught through mind-motivating games.
12	Biotechnology	Dr.N.K.Udayaprakash, Professor, Department of Biotechnology, Vels Institute of Science, Technology and Advanced Studies, Chennai.	Guest Lecture on “ Aerobiology: A Discipline to see the unseen ”	27.09.2023	Students of Biotechnology Department (158)	<ul style="list-style-type: none"> The Resource Person showcased the practical applications of aerobiology in understanding air quality, allergen distribution, and microbial ecology. Additionally, the concept of "Biosoot" was introduced, highlighting its novel contribution to the field.
13	Mathematics	Dr.P.Rajarajeswari Associate Professor Chikkanna Govt. Arts college Thiruppur	Guest Lecture on “ Fuzzy Sets and its applications ”	29.09.2023	III B.Sc & M.Sc Mathematics students (71)	<ul style="list-style-type: none"> The programme provided students with knowledge of recent developments in Fuzzy Mathematics
14	Physics	Dr.MuthuSenthil Pandian Research Scientist (Grade-II) Photovoltaic Devices Laboratory SSN Research Centre SSN Institutions Chennai	Guest Lecture on “ Development of device quality technologically important single crystals: Growth, Characterization and Applications ”	06.10.2023	Students of Physics Department (35)	<ul style="list-style-type: none"> The programme aimed to educate students on various crystal growth techniques and their characterization, motivating them towards crystal growth research. Additionally, students were encouraged to prepare for competitive examinations such as CSIR, NET, JRF, SRF, etc.

15	Mathematics	Dr.M.Syed Ali Assistant Professor Thiruvalluvar University Vellore	Guest Lecture on “ Applications of Number Theory ”	18.12.2023	Students of Mathematics (71)	<ul style="list-style-type: none"> The programme discussed the applications and importance of Number Theory.
16	Mathematics	Dr.K.Mathiyalagan Assistant Professor and Bharathiar University Coimbatore	Guest Lecture on “ Contribution of Ramanujan to Mathematics ”	22.12.2023	Students of Mathematics Department (91)	<ul style="list-style-type: none"> The Resource person enlightened the students about Srinivasa Ramanujan's remarkable contributions to mathematics, emphasizing his groundbreaking work in number theory, infinite series and continued fractions, which continue to influence and inspire current mathematical research.
17	Computer Science	Mr. M.Karthikeyan Hardware Technician Lead, Phoenix Solution, Erode.	Guest Lecture on “ Project Management Resources using IoT ”	22.12.2023	Final Year Computer Science Students (70)	<ul style="list-style-type: none"> Students gained knowledge on understanding how IoT technology can streamline project processes, improve efficiency and enhance decision making.
18	Biochemistry	Ms. V.Keerthana (Alumni), TANSCHÉ – Junior Research Fellow, Bharathiar University, Coimbatore	Guest Lecture on “Basic Cell Culture Techniques”	20.01.2024	Students and Faculty members of Biochemistry Department (79)	<ul style="list-style-type: none"> The lecture provided a comprehensive overview of cell culture techniques, highlighting their fundamental importance in scientific research and demonstrating their practical outcomes.

19	Biochemistry	Ms.V.Indhira (Alumni) , Data Scientist, Cosmetic Research and Fragrance Expert, Michigan, USA	Guest Lecture on “ Innovation in Industrial Biochemistry ”	31.01.2024	Students and Faculty members of Biochemistry Department (79)	<ul style="list-style-type: none"> Ms. V. Indhira's lecture highlighted the transformative impact of recent technological advancements and innovative biochemical approaches on various industries viz., cosmetic, food, Pharma industries, emphasizing the current state and future potential of industrial biochemistry.
20	Mathematics	Dr.M.Prakash Assistant Professor-Grade 2 School of Advanced Sciences VIT, Vellore	Guest Lecture on “ Data Analytics using Machine Learning ”	09.02.2024	Students of Mathematics Department (71)	<ul style="list-style-type: none"> Students engaged in learning about data analytics through practical applications of machine learning techniques.
21	Biotechnology	Dr. B. Mythili Gnanamangai Head, ACIC- KSRCTIF, Department of Biotechnology K.S.Rangasamy College of Technology, Tiruchengode	Guest Lecture on “ Forms of IPR on Life Sciences ” (Patentability Search and Basics of Patent Drafting for Biologists)	21.02.2024	Students of Biotechnology Department (61)	<ul style="list-style-type: none"> The speaker offered a concise introduction to Intellectual Property Rights (IPR), elucidating various related terms such as copyrights, patents, etc. The speaker further emphasized that the core aim of intellectual property law is to foster the creation of diverse intellectual goods.
22	Physics	Dr.S.Prabhu Post-Doctoral Fellow in Chemistry Bar Ilan University Ramat Gun Israel	Program on “ Hybrid Supercapacitors ”	21.02.2024	Students of Physics Department (38)	<ul style="list-style-type: none"> Students were enlightened about upcoming energy storage systems tailored for portable electronics, wearable gadgets, and even implantable devices.

IV. ACADEMIA INDUSTRY INTERFACE PROGRAM

S. No	Organizing Department	Resource Persons	Program Topic	Date	Beneficiaries	Program Outcome
1	Computer Science	Mr.K.Jeeva & Mr.T.Rajamanickam Software Engineers RubRich Research, Coimbatore	Hands on Training Cum Workshop IoT and its Applications	14.09.2023 to 15.09.2023	Students of Final Year Computer Science (91)	<ul style="list-style-type: none"> Students received training in developing IoT applications and gained knowledge about IoT devices and sensors.
2	Computer Science	Mr.P.Manikandan Proprietor Sridharan Infotech Erode	Hands on Training Cum Workshop Computer Hardware and Networking	20.09.2023 to 22.09.2023	Students of First Year Computer Science & Computer Science with Data Analytics (163)	<ul style="list-style-type: none"> Students were equipped with skills in understanding connectivity between computers, addressing software and hardware issues in a system, and handling technical networking issues.
3	Physics	Mr.G.K.ShanmugaSundaram Technical Trainer The Gemini Scientific Company, Chennai	Workshop on Physics for Instrumentation	22.09.2023	Students of Physics Department (37)	<ul style="list-style-type: none"> Students gained practical experience in troubleshooting various instruments including the CRO, potentiometer, power supply, AC and DC meters, etc.
4	Physics	Technical Trainer Mighty Electronics Equipments Corporation Coimbatore	Workshop on “Embedded System using Arduino”	30.01.2024	Students of Physics Department (31)	<ul style="list-style-type: none"> Students learned about an open-source platform that integrates hardware and software for designing and constructing electronic projects. Further, they were encouraged to engage in IoT-based projects, fostering their interest and involvement in this field.
5	Computer Science	Mr.Viknesh Sankaran Technical Lead, Livewire Corporate Office, Chennai.	Workshop on “Python Programming”	11.12.2023 to 13.12.2023	Computer Science Students (161)	<ul style="list-style-type: none"> The workshop engaged students in exploring how to work with Python effectively.

6	Computer Science	Mr.Jeeva K Software Engineer, RubRich Research, Coimbatore.	Guest Lecture on “Project Development using IoT”	15.12.2023	Final Year Computer Science Students (80)	<ul style="list-style-type: none"> • Students were given guidance on how to organize, plan, and develop IoT projects effectively.
7	Computer Science	Mr.L.Askger Ali Software Developer, Sun Software Solutions, Coimbatore	Guest Lecture on “Life Cycle Models in Project Development”	21.12.2023	Final Year Computer Science Students (72)	<ul style="list-style-type: none"> • This Guest Lecture provided a structured approach for students on project delivery.

V. INTER DISCIPLINARY ACTIVITIES

S. No	Organizing Department	Resource Persons	Program Topic	Date	Beneficiaries	Program Outcome
1	Physics	Dr.DanielChellappa Eminent Nuclear Scientist Chennai	Special Lecture on “Science of Nuclear Power”	08.01.2024	Physics and Biotechnology Students (87)	<ul style="list-style-type: none"> • Students acquired knowledge about nuclear power, while also being encouraged to focus on science-related exams. • Awareness was raised about various career opportunities in organizations such as NASA, IGCARE, and atomic power stations among the students.
2	Mathematics and Biotechnology	Mr.L.Jagadesh, National Trainer, JCI INDIA JMF. K. Madhumitha, National Trainer, JCI INDIA	Orientation Programme on “Let Us Begin”	08.08.2023	Students of Biotechnology and Mathematics Department (55)	<ul style="list-style-type: none"> • The objective of this programme was to help students understand their worth and recognize that every individual is unique and important. • Additionally, this programme focused on ensuring a successful beginning in college education by imbuing students with behavioral skills, cultivating a strong team spirit, and preparing them for their academic journey.

3	Biochemistry and Intellectual Property Rights (IPR) Cell	Mr.A.K.R.Shanmugham, Self-Awareness Trainer, Great Human Development Centre, Win Indian Academy, Coimbatore	Awareness Programme on “IPR: Indian Perspective”	09.02.2024	Students and Faculty Members (250)	<ul style="list-style-type: none"> •The programme raised awareness among participants about the significance, scope, and implementation of intellectual property laws within India. •Participants gained knowledge about how to protect their innovations and creative works through the programme.
4	Biochemistry	Dr.K.Chandrakumar, Associate Professor, Department of Biochemistry and Department of Renewable Energy Engineering, Tamilnadu Agricultural University, Coimbatore	One Day Workshop on “Biochemistry of Biogas Production and Alternative Feed stocks”	21.02.2024	Students and Faculty members of Biochemistry, Biotechnology Students and Science forum Students (200)	<ul style="list-style-type: none"> •Students acquired knowledge about the biochemical processes integral to biogas production, including anaerobic digestion, fermentation, and microbial metabolism. •Participants became aware of the environmental benefits linked with biogas production, including greenhouse gas reduction, waste management, and renewable energy generation.
5	Biotechnology	Dr.P.Sathiya Moorthi Chief Executive Office, Moon Foods Tiruchengode	Workshop on “Production of Millet-Based Bakery Products”	20.02.2024	Students of Biotechnology & Catering Science & Hotel Management Department (75)	<ul style="list-style-type: none"> •The workshop delivered a valuable learning experience, providing practical knowledge and skills in the production of millet-based bakery products.

VI. WORKHOP/ HANDS ON TRAINING ORGANISED

S. No	Organizing Department	Resource Persons	Program Topic	Date	Beneficiaries	Program Outcome
1	Mathematics	Dr.A.Sebastian Selvaraj Assistant professor Govt. Arts and Science College, Vedasandur, Dindigul	Workshop on “ Scientific writing using LaTeX ”	07.09.2023 to 08.09.2023	Students of Mathematics Department (58)	<ul style="list-style-type: none"> The programme introduced the open-source typesetting tool LaTeX for creating high-quality scientific documents containing mathematical formulae.
2	Mathematics	Dr.V.Parthiban Assistant Professor-Grade 2 VIT University Chennai	Workshop on “ Introduction to MATLAB programming ”	13.09.2023 to 14.09.2023	Students of Mathematics Department (58)	<ul style="list-style-type: none"> Students were instructed in numerical computation using MATLAB programming.
3	Mathematics	Mr.S.Boopathi Graphic Design Engineer ETS Academy, Erode	Workshop on “ Math with CorelDraw ”	30.09.2023	Students of Mathematics Department (58)	<ul style="list-style-type: none"> The students acquired skills in using CorelDraw.
4	Biotechnology	Dr.S.Sivashankari Associate Professor and Head Department of Bioinformatics Nirmala College for Women, Coimbatore	Workshop on “ Databases and Tools in Bioinformatics ”	04.10.2023	Students of Biotechnology Department (73)	<ul style="list-style-type: none"> The Resource Person provided an in-depth insight into the role of bioinformatics in life sciences, elucidating the importance of learning bioinformatics. He emphasized how bioinformatics tools and databases facilitate the retrieval, analysis, and interpretation of data in a biologically meaningful manner.
5	Mathematics	Mr.M.Karuppusamy Assistant Professor Bannari Amman Institute of Technology, Sathyamangalam	Workshop on “ Math with Python ”	15.12.2023 to 16.12.2023	Students of Mathematics Department (58)	<ul style="list-style-type: none"> Students gained knowledge in Python programming.

6	Biotechnology	Dr. S. Johnson Retnaraj Samuel and Mr.V. Saravanakumar Sathyabama Institute of Science and Technology Chennai	Workshop on “ ELISA and Gel Documentation System ”	18.12.2023	Students of Biotechnology Department (58)	<ul style="list-style-type: none"> The workshop explained the working procedures of ELISA and gel documentation systems, covering various aspects such as sample processing, the usage of micropipettes including calibration, preparation of ELISA reagents, types of ELISA, the ELISA procedure, and interpretation and discussion of results.
7	Biochemistry	Dr. N.Jeyakumar, Professor and Head, Department of Bioinformatics, Bharathiar University, Coimbatore	Workshop on “ Sequence Analysis and Molecular Docking ”	20.12.2023 to 21.12.2023	II UG and III UG Students of Biochemistry (40)	<ul style="list-style-type: none"> The students gained new perspectives on fundamental concepts and tools for sequence analysis and molecular docking in drug discovery. They learned how these techniques can predict the preferred orientation of one molecule to another when bound together, forming a stable complex.
8	Physics	Thilagavathi Electronics Erode	Workshop on “ Electronic Circuits Design and Development ”	20.12.2023	Students of Physics Department (39)	<ul style="list-style-type: none"> Students acquired hands-on experience in printed circuit board soldering, gaining practical skills in assembling electronic circuits. They also gained knowledge in creating functional circuits for various applications.
9	Physics	Mr.G.K.ShanmugaSundaram Technical Trainer The Gemini Scientific Company Chennai	Workshop on “ Fabrication of Solar Cells ”	22.01.2024 to 23.01.2024	Students of Physics Department (20)	<ul style="list-style-type: none"> Students acquired skills in solar cell fabrication, learning the process of creating solar cells. Further, they were motivated to fabricate solar panels, fostering their interest and involvement in renewable energy technologies
10	Mathematics	Dr.S.Mohan Prabhu Assistant Professor & Head Department of Statistics Muthayammal College of Arts and Science Rasipuram	Workshop on “ Software System for Type Setting Document ”	16.02.2024	Students of Mathematics Department (90)	<ul style="list-style-type: none"> Students have gained practical expertise in typesetting software and a deep understanding of typography and document design. This prepares them to create high-quality documents in their future academic or professional pursuits.

11	Biochemistry	Dr.P.Mehalingam, Associate Professor and Head, Department of Botany, Virudhunagar Hindu Nadars Senthilkumara Nadar College, Virudhunagar	One Day Workshop on “ Plant Micro Techniques ”	17.02.2024	Students and Faculty members of Biochemistry Department (70)	<ul style="list-style-type: none"> • Students gained a deeper understanding of various micro techniques used in plant biology, including tissue culture, microscopy, staining, and sectioning. • They acquired insights into how these plant micro techniques are applied in research, agriculture, biotechnology, and other industries, enabling them to integrate these techniques into their own work effectively.
12	Physics	Dr.S.Allimalarkodi Associate Professor Erode College of Pharmacy Erode	Workshop on “ Nanotechnology - Laboratory Practices ”	19.02.2024	Students of Physics Department (36)	<ul style="list-style-type: none"> • Students gained hands-on experience and practical knowledge in assessing the antimicrobial activity of nanoparticles synthesized from plants, a key application of green nanotechnology, offering them valuable insights into the real-world applications of Nanotechnology research
13	Mathematics	Dr.S.Mohan Prabhu Assistant Professor & Head Department of Statistics Muthayammal College of Arts and Science, Rasipuram	Workshop on “ Data Analysis with IBM SPSS ”	22.02.2024	Students of Mathematics Department (90)	<ul style="list-style-type: none"> • Students deepened their understanding of SPSS, particularly in data analysis techniques, expanding their skills and proficiency in handling and analyzing data using this software.
14	Biochemistry	Dr.S.Sengottuvelu, Professor, Department of Pharmacology, Nandha College of Pharmacy, Erode	One day workshop on “ Basic Techniques and Practices involved in In-Vivo Animal Research ”	23.02.2024	III B.Sc Biochemistry Students and Faculty members (24)	<ul style="list-style-type: none"> • Through this hands-on training and demonstrations, students developed their practical skills in in-vivo animal research, including animal handling, restraint, injection methods, and euthanasia techniques. • This immersive experience equipped them with the necessary expertise to conduct research involving live animals effectively and ethically.

VII. FACULTY DEVELOPMENT PROGRAM

(A) FACULTY DEVELOPMENT PROGRAM - ORGANISED

S. No	Organizers	Resource Persons	Program Topic	Date	Beneficiaries	Program Outcome
1	DBT Star Departments (Biochemistry, Biotechnology and Physics)	<p>Mr.Saneesh.P.F Project Manager VALUE Virtual Labs Amrita Vishwa Vidyapeetham Amritapuri Kollam, Kerala</p> <p>Ms.Nijin Research Associate Amrita Virtual Lab Amrita Mind Brain Centre Amrita Vishwa Vidyapeetham Amritapuri Kollam, Kerala</p>	Faculty Development Programme on “ Virtual Lab-Learner’s Perspective ”	19.09.2023	Faculties of Biochemistry, Biotechnology and Physics (23)	<ul style="list-style-type: none"> The Faculty Development Programme facilitated remote access to simulation-based labs for science courses, promoting engagement and enabling faculty to conduct experiments remotely. Faculty gained practical experience with virtual lab platforms, enabling them to navigate interfaces, conduct experiments, and analyze results. They were trained to utilize virtual labs to enhance student engagement, motivation, and active learning experiences.
2	Computer Science	<p>Dr.J.Yesudoss Assistant Professor Department of Computer Science Sri Ramakrishna Mission Vidyalyaya College of Arts and Science (Autonomous) Coimbatore.</p>	Faculty Exchange Programme on “ Data Structures and Algorithms ”	20.09.2023 to 22.09.2023	First Year Computer Science Students (61)	<ul style="list-style-type: none"> This Programme provided a platform to exchange information, skills, and expertise to assist participants succeed in their education and careers.

3	Computer Science	Mr. Vignesh S Technical Lead & Corporate Trainer, Livewire Corporate Office, Chennai	FDP on “ R-Programming ”	17.02.2024	Faculty Members (38)	<ul style="list-style-type: none"> This Faculty Development Programme offered hands-on experience in using R for research data analysis.
4	Biotechnology	Mr. A. P. Thangadurai Proprietor The Scientific Engineering Works Coimbatore	Hands on Training Programme in “ Lab Safety Rules for Laboratory Technicians ”	29.02.2024	Laboratory Technicians of DBT Star Departments (07)	<ul style="list-style-type: none"> The hands-on training programme focused on emphasizing the importance of safety procedures during experimental performance This training provided participants with a new perspective on safety practices, enhancing their understanding and awareness in this crucial aspect of laboratory work

(B) FACULTY DEVELOPMENT PROGRAM - ATTENDED

S. No	Department	Faculty	Programme Topic	Date	Organizers	Outcome
1	Biochemistry	Dr. G. Karthikeyan	National Conference on “ Frontiers in Biotechnology ”	22.09.2023	PG & Research Department of Biotechnology Nandha Arts and Science College Erode	<ul style="list-style-type: none"> Dr. G. Karthikeyan presented a paper titled "Green Synthesis and Characterization of Copper Oxide Nanoparticles using <i>Terminalia catappa</i> for Enhanced Biological and Environmental Applications" at the conference The event served as a platform for Faculty to showcase their research, engage with established scientists and industry professionals, and network with peers from various institutions

2	Biochemistry	Mr. T. G. Nagulan	State level Seminar on “ Emerging Trends in Bioentrepreneurship ”	26.09.2023	Department of Biochemistry Dr. N. G. P. Arts and Science College Coimbatore	<ul style="list-style-type: none"> • The Seminar focused on emerging trends in bioentrepreneurship, including personalized medicine, startups, innovations in research, and sustainable bioprocessing • Participants gained valuable insights into cutting-edge technologies and market trends shaping the bioeconomy
3		Dr. A. K. Vidya Ms. T. Radha Dr. G. Karthikeyan	Faculty Development Programme on “ Hands-on Training – HPLC ”	03.11.2023	Department of Pharmaceutical Chemistry Vellalar College of Pharmacy Erode	<ul style="list-style-type: none"> • Faculty members gained exposure to isolation techniques of bioactive compounds in the lab and conducted phytochemical analysis of crude extracts using HPLC
4		Mr. T. G. Nagulan	National Conference on “ Millet Cultivation and Conservation of Plants in Herbal Garden ”	21.12.2023 to 22.12.2023	Department of Botany and Department of Biochemistry Bharathiar University Coimbatore	<ul style="list-style-type: none"> • Mr. T.G. Nagulan presented a paper titled "A Study on Extraction, Formulation, and Evaluation of Antioxidant Cream produced from Betel Leaf (<i>Piper betle</i>)" at the conference • Discussions and presentations at the event highlighted the role of millets in addressing malnutrition and promoting healthy diets, particularly in rural and marginalized communities
5		Dr. G. Karthikeyan	Two Day Workshop on “ Molecular Techniques ”	15.02.2024 to 16.02.2024	Department of Biotechnology Rathinam College of Arts and Science Coimbatore	<ul style="list-style-type: none"> • Faculty gained valuable skills, knowledge, and networking opportunities to excel in the field of molecular biology, contributing to scientific advancements and innovation

6	Biochemistry	Dr. N. Sangeetha	Two Day National Conference on “Lifestyle Diseases and its Management (NCLDM-2024)”	19.02.2024 to 20.02.2024	Department of Biochemistry Karpagam Academy of Higher Education Coimbatore	<ul style="list-style-type: none"> • Dr. N. Sangeetha presented a Paper entitled ‘Efficient Removal of Diclofenac from Aqueous solution using Magnetic Activated Carbon’ • Presentations and discussions at the conference emphasized evidence-based approaches to the prevention, diagnosis, and management of lifestyle diseases
7	Biotechnology	Dr. D. Saravanan Ms. S. Vijaya Ms. G. Jayanthi Mr. K. Vivekanandhan Ms. R. DivyaDharshini Ms. R. Sangeetha Ms. K. Nandhini Ms. V. Deepiga	Workshop on “ELISA and Gel Documentation System”	18.12.2023	Kongu Arts and Science College Erode	<ul style="list-style-type: none"> • Staff who attended the workshop gained advanced technical knowledge and practical skills in using ELISA and Gel Documentation systems
8		Mr. K. Vivekanandhan	DST FIST Sponsored Two Day Workshop on “Equipment Handling (HPLC & NPTA)”	06.02.2024 to 07.02.2024	PSGR Krishnammal College for Women Coimbatore	<ul style="list-style-type: none"> • The workshop enhanced the staff's proficiency in operating and maintaining HPLC and NPTA equipment, leading to improved research capabilities and laboratory efficiency
9	Mathematics	Dr. M. Lalitha	Workshop on “Research Paper Writing & Publishing”	01.07.2023 to 07.07.2023	Hi Learn Edutech Institute	<ul style="list-style-type: none"> • The faculty gained valuable knowledge on effective research design, methodology, and data analysis, and learned about the publishing process and ethical considerations

10	Mathematics	Dr. S. Nagarajan	International Conference on “Blooming Fuzzifier Logic”	23.08.2023 to 24.08.2023	Chikkanna Government Arts College Tiruppur	<ul style="list-style-type: none"> Faculty gained valuable knowledge in mathematical modeling, fuzzy logic systems, and their practical applications, enhancing their analytical and problem-solving skills
11		Dr. S. Nagarajan	International Conference on Mathematical “Modelling, Analysis and computing – 2023”	21.10.2023 to 22.10.2023	Holy Cross Arts and Science College Tirpattur	<ul style="list-style-type: none"> Faculty became acquainted with the latest advancements in modeling and computation through this conference
12		Dr. C. Radhamani Dr. M. Lalitha	International Conference on “Theoretical and Computational Graph Theory”	10.01.2024 to 12.01.2024	Vellalar College for Women & VET Institute of Arts & Science Erode	<ul style="list-style-type: none"> The faculty members acquired insights into advanced graph theory concepts, computational algorithms, and their applications in diverse fields, enhancing their expertise and contributing to academic research on theoretical and computational graph theory
13		Dr. C. Radhamani Dr. S. Suresh	FDP on “Prominence of Indian Knowledge System”	01.02.2024	Kongu Arts and Science College	<ul style="list-style-type: none"> The program deepened the understanding of Faculty members on traditional Indian knowledge systems, and exploring ways to integrate these insights to enrich academic curricula with culturally significant perspectives and historical relevance
14		Dr. S. Nagarajan Dr. C. Radhamani Dr. S. Suresh Dr. M. Lalitha	FDP on “R programming”	17.02.2024	Kongu Arts and Science College	<ul style="list-style-type: none"> Faculty members acquired practical skills in using R for real world data analytics tasks
15	Computer Science	Dr. R. Pushpalatha	Seven Days National Level Virtual FDP on “Personality Development for Teachers in HEI’s”	26.06.2023 to 04.07.2023	IOT Academy Coimbatore	<ul style="list-style-type: none"> Acquired knowledge and skills in Personality Development for Teachers

16	Computer Science	Ms. M. Geetha Dr. M. Shanmugapriya Ms. A. Elakkiya	Faculty Development Program on “ Trends in Teaching and Learning Pedagogy ”	13.07.2023	Kongu Arts and Science College (Autonomous) Erode	<ul style="list-style-type: none"> Acquired deeper understanding of current trends and best practices in teaching and learning and enabling to update the instructional strategies and approaches
17		Dr. M. Manju	FDP on “ Advanced Research Methodology ”	24.07.2023 to 30.07.2023	A.C.T Academy	<ul style="list-style-type: none"> Acquired knowledge and skills in Research methodologies
18		Dr. M. Shanmugapriya	Integrated Communication & Outreach Programme on “ Govt. of India’s Welfare Scheme ”	28.07.2023	Government of India Ministry of Information and Broadcasting Central Bureau Of Communication Regional Office, Chennai	<ul style="list-style-type: none"> Acquired deeper understanding of traffic rules and regulations
19		Dr. M. Shanmugapriya	3 Days Faculty Exchange Programme	20.09.2023 to 22.09.2023	Ramakrishna Mission Vidhyala College of Arts and Science (Autonomous), Coimbatore	<ul style="list-style-type: none"> Sharing Knowledge to the students for the basic concepts of Data Structures and Algorithms
20		Ms. M. S. Kokila Dr. M. Manju Ms. P. Prathiba Ms. A. Lavanya	Virtual Workshop on “ Research Methodology ”	09.10.2023 to 14.10.2023	SRM Institute of Science and Technology Ramapuram Campus, Chennai.	<ul style="list-style-type: none"> Gained knowledge about various research fields and various research techniques in research field.
21		Dr. R. Pushpalatha	Six Days Professional Development Programme on “ Upskilling Core Competencies for Computer Science Professionals ”	09.10.2023 to 14.10.2023	School of Computer Science Kongunadu Arts and Science College (Autonomous) Coimbatore	<ul style="list-style-type: none"> Gained ability in Upskilling Core Competencies for Computer Science Professionals

22	Computer Science	Mr. P. Ramesh Ms. M. S. Kokila Mr. S. Jaganathan Mr. A. R. Karthekeyan Ms. M. Geetha Dr. R. Pushpalatha Ms. K. Gomathy Ms. C. Visalatchi Dr. M. Manju Ms. A. Lavanya Dr. M. Shanmugapriya Ms. A. Elakkiya Ms. S. Vidhya Ms. K. Saraswathi Ms. P. Prathiba	One Week FDP on “ Artificial Intelligence and Language Teaching ”	30.10.2023 to 04.11.2023	SRM Institute of Science and Technology College of Science and Humanities Department of English and other Foreign Languages Ramapuram Chennai	<ul style="list-style-type: none"> • Gained Information in Artificial Intelligence, concepts of controlled robot. Gained skills in decision making and problem solving
23		Dr. R. Pushpalatha	One Week Professional Development Programme on “ Optimizing the Computer Science Research Process: Enhancing Paper Writing, Funding Acquisition and Patent Development Skills ”	23.11.2023 to 30.11.2023	School of Computer Science VET Institute of Arts and Science (IAS) College Thindal Erode	<ul style="list-style-type: none"> • Acquired knowledge in Paper Writing, Funding Acquisition and Patent Development Skills
24		Mr. P. Ramesh Mr. S. Jaganathan Ms. K. Gomathy Ms. S. Gowthami Ms. C. Visalatchi Dr. M. Manju Ms. A. Elakkiya	One Week FDP on “ IOT with Machine Learning ”	27.11.2023 to 02.12.2023	PVKK Institute of Technology in Association with Pantech E Learning Chennai	<ul style="list-style-type: none"> • Gained knowledge about deep understanding of IoT concepts, technologies and architectures as well as machine learning and techniques

25	Computer Science	Ms. S. Gowthami	One day national webinar on “ Guidance for writing an Effective Research Paper ”	18.12.2023	Nimbus Academy of Management Dehradun Uttarakhand	<ul style="list-style-type: none"> Acquired knowledge about how to present facts based on scientific data and research, by following the Good Publication Practice guidelines that ensures data integrity and publication ethics
26		Ms. M. Geetha Ms. C. Visalatchi Ms. K. Gomathy Ms. A. Elakiya	5 Days Online Workshop on “ SPSS in Research ”	26.12.2023 to 30.12.2023	Star International Foundation for Research and Education Tiruchengode	<ul style="list-style-type: none"> Gained proficiency in using SPSS software for statistical analysis, understanding how to input data, perform various statistical tests, interpret results, and apply findings to the research projects
27		Ms. C. Visalatchi	One Day Faculty Development Workshop on “ GEN AI & Data Analytics for HEIs ”	05.01.2024	Association of Self-Financing Arts, Science & Management Colleges of Tamilnadu SNS Institutions Coimbatore	<ul style="list-style-type: none"> This Faculty Development Workshop empower faculty with the knowledge, skills and resources necessary to effectively incorporate AI and data analytics into their teaching, research and institutional activities
28		Dr. R. Pushpalatha Ms. M. S. Kokila Mr. S. Jaganathan Ms. M. Geetha Ms. S. Gowthami Ms. C. Visalatchi Ms. K. Gomathy Ms. A. Elakiya Dr. M. Manju	Five Days International Virtual Faculty Development Programme on “ Hybrid Education for Pedagogical Success ”	09.01.2024 to 13.01.2024	Saveetha College of Liberal Arts & Sciences SIMATS Chennai	<ul style="list-style-type: none"> Gained proficiency in designing and delivering effective hybrid courses, utilizing a blend of in person and online teaching methodologies
29		Dr. R. Pushpalatha Ms. S. Gowthami Ms. C. Visalatchi Ms. K. Gomathy Ms. A. Elakiya Dr. M. Manju	Five Days International Virtual Faculty Development Programme on “ Emerging Trends in Data Analytics ”	22.01.2024 to 26.01.2024	Saveetha College of Liberal Arts & Sciences SIMATS Chennai	<ul style="list-style-type: none"> Gained knowledge about latest trends, tools and techniques in data analytics

30	Computer Science	Mr. P. Ramesh Ms. M. S. Kokila Mr. S. Jaganathan Ms. M. Getha Dr. R. Pushpalatha Ms. K. Gomathy Ms. S. Gowthami Ms. R. Saveetha Ms. C. Visalatchi Dr. M. Manju Ms. A. Lavanya Dr. M. Shanmugapriya Ms. A. Elakkiya Ms. S. Vidhya Ms. P. Prathiba	Online Capacity Building Program on “Unleash the Potential of AI for Research”	22.01.2024 to 26.01.2024	Kongu Arts and Science College (Autonomous) Erode IQAC & Patrician College of Arts and Science, Chennai	<ul style="list-style-type: none"> Acquired knowledge and skills in using AI tools and techniques for research purposes and empowering to integrate AI for research projects
31		Mr. P. Ramesh Ms. M. S. Kokila Mr. S. Jaganathan Ms. M. Geetha Dr. R. Pushpalatha Ms. K. Gomathy Ms. S. Gowthami Ms. R. Saveetha Ms. C. Visalatchi Dr. M. Manju Ms. A. Lavanya Dr. M. Shanmugapriya Ms. A. Elakkiya Ms. S. Vidhya	Faculty Development Programme on “R-Programming”	17.02.2024	Kongu Arts and Science College (Autonomous) Erode	<ul style="list-style-type: none"> Faculty members acquired practical skills in using R for real world data analytics tasks
32		Ms. M. S. Kokila	National FDP on “Exploring Cultures: Diversity in Travel Writing”	20.2.2024 to 27.2.2024	PPG College of Arts and Science Coimbatore	<ul style="list-style-type: none"> Gained knowledge in exploring cultures delivering effective diversity in travel writing

33	Computer Science	Ms. P. Prathiba	National Workshop on “ Research Methodology ”	11.3.2024	Shri Muktanand College Gangapur	<ul style="list-style-type: none"> • Gained knowledge in Research Methodology and its usage in writing various articles and research papers
34		Dr. M. Shanmugapriya	5th International Multidisciplinary Conference on “ Information Science Management Research & Social Sciences ”	13.03.2024 to 14.03.2024	AJK College of Arts and Science (Autonomous) Coimbatore	<ul style="list-style-type: none"> • Acquired knowledge and skills in Multidisciplinary fields
35		Ms. M. Geetha Ms. R. Saveetha Ms. S. Gowthami	Five Day FDP on “ Effective Research Paper Writing Strategies and High-Impact Journal Publication Techniques ”	22.04.2024 to 26.04.2024	Kongu Engineering College (Autonomous) Erode	<ul style="list-style-type: none"> • Acquired knowledge on improved writing skills, enhanced understanding of publication process and increased familiarity with journal selection criteria
36	Physics	Mr. T. Akashnarayana	Bridge2023 – Coimbatore (A High Impact Industry – Institute Interaction Event of India)	07.09.2023	ICT Academy of Tamilnadu	<ul style="list-style-type: none"> • Learnt how to frame syllabus based on industrial applications
37		Dr. R. Chitra Ms. K. Maithilee Mr. T. Akashnarayana Mr. K. Mohanapriyan Ms. S. Leelavathi Ms. S. Nathiya Mr. R. Arulkumar	Advances on Materials for Renewable energy storage technology and sustainability	08.09.2023	St.Joseph’s College (Autonomous) Trichy	<ul style="list-style-type: none"> • Gained knowledge on the availability of various renewable energy sources and their storage technology

38	Physics	Dr. R. Chitra Ms. K. Maithilee Mr. T. Akashnarayana Mr. K. Mohanapriyan Ms. S. Leelavathi Ms. S. Nathiya Mr. R. Arulkumar Ms. S. Shobika	Unleash the Potential of AI for Research	22.01.2024 to 26.01.2024	Kongu Arts and Science College (Autonomous) Erode	<ul style="list-style-type: none"> The programme discussed AI practical applications in appropriate research and provided an insight over the methodology and design of research in the current research trend
39		Mr. K. Mohanapriyan Ms. S. Leelavathi Ms. S. Nathiya	Computational Mathematics and Applied Sciences - 2K24	04.03.2024	Arasu Arts and Science College for Women Karur	<ul style="list-style-type: none"> Acquired knowledge on features of current new materials and processes in the field of Mathematics and Applied Science
40		Mr. T. Akashnarayana Mr. K. Mohanapriyan Ms. S. Leelavathi Ms. S. Nathiya Mr. R. Arulkumar	Trends in Teaching and Learning Pedagogy	13.07.2023	Kongu Arts and Science College (Autonomous) Erode	<ul style="list-style-type: none"> FDP provided the distinct focus on recent trends in teaching and learning process
41		Ms. S. Leelavathi Ms. S. Nathiya Mr. R. Arulkumar	Prominence of Indian Knowledge System	01.02.2024	Kongu Arts and Science College (Autonomous) Erode	<ul style="list-style-type: none"> Learnt how to correlate the syllabus with prehistoric cultures in India like Civilization, its origins, society, culture, and interactions with people

VIII. PROFESSIONAL DEVELOPMENT PROGRAM FOR NON-TEACHING STAFF

(A). ORGANISED

S. No	Organizers	Resource Person	Program Topic	Date	Beneficiaries	Program Outcome
1.	Biotechnology	Mr.A.P.Thangadurai Proprietor The Scientific Engineering Works Coimbatore	Hands on Training Programme in “Lab Safety Rules for Laboratory Technicians”	29.02.2024	Laboratory Technicians of DBT Star Departments (07)	<ul style="list-style-type: none"> The hands-on training programme focused on emphasizing the importance of safety procedures during experimental performance. This training provided participants with a new perspective on safety practices, enhancing their understanding and awareness in this crucial aspect of laboratory work.

IX. COMPETITION FOR STUDENTS

S. No	Organizing Department	Program Topic	Date	Beneficiaries	Program Outcome
1	Physics	Inter-Departmental Competitions E-Waste Disposal - Pencil Sketching Preserve Nature - Photography Energy Conservation Tactics for KASC - Video Content	14.12.2023 to 16.12.2023	40 Students	<ul style="list-style-type: none"> Students were made aware of the importance of energy conservation through various competitions organized to promote this cause
2	Biochemistry	BioFlair - Intra Department Competition “Express & Impress” (Talent Contest)	25.08.2023	79 Students of Biochemistry Department	<ul style="list-style-type: none"> The Biochemistry students showcased their creativity and knowledge in the field of Biochemistry at BIOFLAIR - 'EXPRESS and IMPRESS' Intra-department competition. Prizes were awarded to the best science and talent exhibits
3	Computer Science	Intra Department Competitions – Think Fest - Quiz Contest	21.09.2023	139 Students of Computer Science Department	<ul style="list-style-type: none"> Students were provided with an opportunity to assess and improve their knowledge retention and transfer skills
4	Computer Science	Intra Department Competitions – Think Fest - Poster Presentation	19.02.2024	45 Students of Computer Science Department	<ul style="list-style-type: none"> This activity served as a platform for students to showcase their knowledge in science and technology
5	Computer Science	Intra Department Competitions – Think Fest - Paper Presentation	22.02.2024	45 Students of Computer Science Department	<ul style="list-style-type: none"> Students presented their paper and engaged in valuable discussions, enhancing their confidence and networking
6	DBT Star Departments	National Science Day Celebrations Competitions Conducted <ul style="list-style-type: none"> • Science Exhibition • Logo Designing • Poster presentation • Quiz contest • Content creation contest • Start up Innovative Ideas 	28.02.2024	180 Students	<ul style="list-style-type: none"> The National Science Day competition provided a platform for students to exhibit and share their knowledge in science and technology through innovative ideas Students enthusiastically participated in various competitions, including essay writing, poster presentation, working models, quiz competition, and content creation contest These competitions motivated students to understand the importance of innovations in science and technology

X. EXTENSION ACTIVITY

S. No	Organizing Department	Nature of Extension Activity	Date	Beneficiaries	Program Outcome
1	Computer Science	Road Safety Awareness Programme	28.07.2023	Students of Final Year Computer Science (75)	<ul style="list-style-type: none"> Students acquired extensive knowledge about road traffic, the transport environment, signals, and traffic signs. They also became familiar with traffic management and road safety principles.
2	Computer Science	Anti-Tobacco Awareness Rally	11.08.2023	Students of Computer Science and Computer Science with Data Analytics (430)	<ul style="list-style-type: none"> Students raised awareness about the dangers of tobacco use by carrying placards and banners that highlighted the health hazards associated with tobacco. They also chanted slogans to encourage people to stop using tobacco products.
3	Biochemistry	Blood Donation Camp in association with, Erode Government Hospital, Lions Club Supreme and Tamil Nadu Volunteer Blood Bank, Erode	27.09.2023	Blood donors donated their Blood (200)	<ul style="list-style-type: none"> Many student volunteers and staff members participated in donating blood. This event was organized to raise awareness about the importance of blood donation in the local communities. The drive successfully had 200 donors, comprising both student volunteers and staff members.
4	Biochemistry	Blood Group Identification Camp	30.09.2023	Students (250)	<ul style="list-style-type: none"> It's essential for college students to know their blood group to avoid wasting time during emergencies. This camp helped identify the blood groups of students.
5	Physics	Extension Activity in tune with “World Energy Conservation Day 2023” at PUPS Kathirampatti Primary School	14.12.2023	School Students: 40 College Students: 04 Faculty: 01	<ul style="list-style-type: none"> School students were educated on the importance of electricity usage at home and in schools.

6	Mathematics	Extension Activity on “Arithmetic with ABACUS and donating Mathematical Charts” at Panchayat Union Primary School, Nasiyanur	10.01.2024	Mathematics students (21) School students (22)	<ul style="list-style-type: none"> • They were also taught simple mathematical calculations using an abacus.
7	Biotechnology	Extension Activity on “Science Awareness Programme”	18.01.2024	Students of Govt. High School, Vendipalayam, Solar (74)	<ul style="list-style-type: none"> • The Government Primary School students were energetic and interactive in all the sessions. They actively participated in the competitions and were rewarded with prizes.
8	Computer Science	Awareness Programme on E-Waste Management	02.02.2024	Students (410)	<ul style="list-style-type: none"> • This programme have created awareness to public to keep the village free from Electronic Waste Pollution. It also gave awareness in recycling the E-WASTE Materials.
9	Computer Science	Orientation Programme on “Animation in Multimedia”	02.02.2024	School Students (25)	<ul style="list-style-type: none"> • Through this Extension Activity, the school students gained knowledge about Animation in Multimedia. The students acquired more knowledge about making movies and advertisements.
10	Computer Science	Extension Activity on “Plastic Ban Awareness Rally”	02.02.2024	College Students (400)	<ul style="list-style-type: none"> • Students participated in the Plastic Ban Awareness Rally, significantly increasing community awareness about the environmental impact of plastic usage and the importance of reducing plastic waste
11	Mathematics	Extension Activity on “Basic Calculation Through ABACUS” at Panchayat Union Primary School Nathakkattupalayam, Erode	05.02.2024	School Students (32)	<ul style="list-style-type: none"> • The students were trained with ABACUS for easy Math calculations
12	Biotechnology	Extension Activity on “Importance of Science Education”	16.02.2024	Students of Govt.High School, Kanagapuram, Vellode (80)	<ul style="list-style-type: none"> • The extension activity provided in-depth knowledge on hygiene, fostering awareness in their youthful minds.