

FACULTY TRAINING / DEVELOPMENT PROGRAMME ORGANIZED UNDER STAR COLLEGE SCHEME

2019 -- 2024

S. No.	Date	Name of the Course	Course Code	Title of the Programme	Organised by	Resource Persons	Topic	Beneficiaries
1	18.07.2019 -- 20.07.2019	Biostatistics and Biological Techniques	15UBOE51	Biostatistics and Bioinformatics	Botany and Zoology	Dr. K. Kishore, Assistant Professor of Commerce, Voorhees College, Vellore.	SPSS package	35
						Dr. Gopinath Krishnasamy, Post-Doctoral Researcher of Chemical Engineering, Konkuk University, Republic of Korea.	Bioinformatics	
2	20.08.2019 -- 22.08.2019	Cell and Molecular Biology	19PZOC11	Basic Techniques in Molecular Biology	Zoology and Botany	Dr. S. Karutha Pandian, Professor and HoD of Biotechnology, Alagappa University, Karaikudi.	DNA based molecular diagnostic techniques	41
						Dr. Jasmine M. Shah, Assistant Professor of Plant Science, Central University of Kerala, Kasaragod, Kerala.	Isolation of plasmid from <i>E. coli</i>	
						Dr. R. Sri Priya, Assistant Professor of Zoology, St. Mary's College (Autonomous), Thoothukudi.	Restriction digestion of plasmid DNA	
						Dr. H. Abdul Jaffar Ali, Assistant Professor of Biotechnology, Islamiah College, Vaniyambadi.	DNA bar coding as a molecular tool for species identification	
3	12.12.2019	Agricultural Chemistry and Water Management	18UCHS31	Soil analysis	Chemistry	Dr. S. Jothimani, Professor, Agricultural College and Research Institute, Killikulam.	Soil analysis	9
						Mr. T. S. R. Murthy, Senior Research Fellow of Soil Science, Nagarjuna Agrochemicals Pvt. Ltd., Hyderabad.		

4	02.01.2020 -- 04.01.2020	Computational Biology	17PZOC31	Natural Product Research	Botany and Zoology	Dr. Aneesh Nair, Scientist and Head- Operations, Biozone Research Technologies Pvt. Ltd., Chennai.	Software for drug designing and docking	28
						Mr. Shanmuga Sundaram, Senior Researcher, Ms. Chandralekha, Junior Researcher, Biozone Research Technologies Pvt. Ltd., Chennai.	Extraction of bioactive compounds from natural products	
5	07.01.2020	Renewable Energy Sources	15UPHE51	Solar Cell Instrument - Training	Physics	Dr. S. Karuppuchamy, Professor and HoD of Energy Science, Alagappa University, Karaikudi.	Development of nanoparticles for energy applications	15
						Mr. G. Rajaganesan, Director- Technical Operation, VATIO Energy India Pvt. Ltd., Chennai.	Relationship between the access to energy through renewable energy base systems	
6	06.05.2021 -- 11.05.2021	Biostatistics and Biological Techniques	18UZOC62	Computational Biology	Zoology and Botany	Dr. K. Sujatha, Assistant Professor of Zoology, Lady Doak College, Madurai.	Effective usage of <i>in silico</i> tools in experimental research	85
						Dr. A. Mahalakshmi, Assistant Professor of Zoology, Lady Doak College, Madurai.	Computational biology - An overview and introduction to databases	
							Current trends and application of bioinformatics in life science research	
							Database similarity search	
						Dr. Babylakshmi Muthusamy, Research Scientist, Institute of Bioinformatics, Bengaluru	Computational approaches for microbial diagnostics	

6	06.05.2021 -- 11.05.2021	Biostatistics and Biological Techniques	18UZOC62	Computational Biology	Zoology and Botany	Dr. A. Mahalakshmi, Assistant Professor of Zoology, Lady Doak College, Madurai.	Multiple sequence alignment and phylogenetic analysis	85
						Dr. D. Ilakkiam, Assistant Professor of Biotechnology, Mother Teresa Women's University, Kodaikanal.	Whole genome sequencing – Assembly and annotation of microbial genomes	
						Dr. A. Mahalakshmi, Assistant Professor of Zoology, Lady Doak College, Madurai	An introduction to protein sequences and modeling	
						Dr. J. Sridhar, Assistant Professor of Biotechnology, Madurai Kamaraj University, Madurai.	High-throughput data analysis using bioinformatics tools	
						Dr. A. Mahalakshmi, Assistant Professor of Zoology, Lady Doak College, Madurai	Molecular docking	
7	26.05.2021 -- 31.05.2021	Computer for Digital Era and Soft Skills	18UCSB51	Graphics design	Botany, Chemistry, Physics and Zoology	Dr. A. Vimal Jerald, Assistant Professor of Computer Science, St. Joseph's College, Tiruchirappalli.	Photoshop tools and background setting	457
							Business card and identity card design	
							Invitation design and flyer design	
							Certificate design and linking data set	
							Book cover design	

8	21.06.2021 -- 25.06.2021	Inorganic Chemistry II	18UCHC61	Nuances in Chemistry Teaching	Chemistry	Dr. P. Sami, Associate Professor of Chemistry, V. H. N. Senthilkumara Nadar College (Autonomous), Virudhunagar.	Solid state and electrochemistry	180
						Dr. K. Muruga Poopathi Raja, Assistant Professor of Physical Chemistry, Madurai Kamaraj University, Madurai.	Biomolecules - Part I and Part II	
						Dr. S. Jemima Balaselvi Juliana, Associate Professor of Chemistry, The American College, Madurai.	Coordination chemistry	
9	12.07.2021 -- 17.07.2021	Advanced Physics	18UPHI61	Advance Topics in Physics	Physics	Dr. R. Srinivasan, Member Secretary, Tamil Nadu State Council for Science and Technology, Chennai	Inagural Address	175
						Dr. N. Ponpandian, Professor and HoD of Nanoscience and Technology, Bharathiar University, Coimbatore.	Magnetic materials	
						Dr. K. Thenmozhi, Assistant Professor of Chemistry, Vellore Institute of Technology, Vellore.	Electrochemical and optical sensors	
						Dr. R. Nagalakshmi, Associate Professor of Physics, National Institute of Technology, Tiruchirappalli.	f-electron magnetism	
						Dr. M. Balasubramaniam, Professor of Physics, Bharathiar University, Coimbatore.	Heavy charged particle accompanied fission of heavy and super heavy nuclei	

9	12.07.2021 -- 17.07.2021	Advanced Physics	18UPHI61	Advance Topics in Physics	Physics	Dr. M. Balaji, Researcher of Applied Physics, Kungliga Tekniska Hogskolan - Royal Institute of Technology Stockholm, Sweden	Semi-conductor devices	175
						Dr. G. Gnanakumar, Professor and HoD of Physical Chemistry, Madurai Kamaraj University, Madurai.	High performance fuel cells	
						Dr. P. Vengadesh Periasamy, Professor of Physics, University of Malaya, Malaysia.	Solid-state sensors for biomolecules	
						Dr. B. Sundarakannan, Professor and HoD of Physics, Manonmaniam Sundaranar Univesity, Tirunelveli	Valedictory address	
10	19.07.2021 -- 24.07.2021	Biotechnology	18UBCC51	Biotechnology for 21 st century	Botany	Dr. P. Gopal, Assistant Professor of Plant Biotechnology, Madurai Kamaraj University, Madurai	New approaches for the detection and characterisation of circular RNAs	120
						Dr. Jibu Thomas, Head and Associate Professor of Biotechnology, Karunya Institute of Technology and Sciences, Coimbatore.	Expectations and innovations through biotechnological interventions	
						Dr. Ginny Antony, Assistant Professor of Plant Sciences, Central University of Kerala, Kasaragod, Kerala	Targeted genome editing platforms and applications in plants	
						Dr. S. Madhavan, Professor Emertius of Biochemistry, University of Nebraska-Lincoln, USA	Interdependence of biochemistry and biotechnology as revealed by omics	

10	19.07.2021 -- 24.07.2021	Biotechnology	18UBCC51	Biotechnology for 21 st century	Botany	Dr. Jasmine M. Shah, Assistant Professor of Plant Sciences, Central University of Kerala, Kasaragod, Kerala.	Epigenetics: opportunity and challenges in crop breeding	120
						Dr. Veeramuthu Ashokkumar, Research Professor of Chemical Technology, Chulalongkorn University, Thailand.	Recent advances in microbial biotechnology	
						Dr. Remya Mohanraj, Professor of Biology, Houston Community College, Houston Tx.	Cell Suspension culture for Biodiversity Conservation of Medicinal Plants	
11	23.11.2021 -- 27.11.2021	Solid State and Material Science	18UPCC51	Nanomaterials	Physics	Dr. P. Gopinath, Head of Centre of Nanotechnology, Indian Institute of Technology, Uttarakhand.	Difference between nanoscience and nanotechnology	338
						Dr. P. Mosae Selvakumar, Assistant Professor, Asian University of Women, Bangladesh	Palmyra culture: An insight into the role of Asian Palmyra palm in Nanoscience and Nano technology	
						Dr. S. Senthil Velan, Associate Professor of Chemistry, Annamalai University, Chidambaram.	Nanomaterials and its industrial applications	
						Dr. Israel VMN Enoch, Professor and Head, Centre for Nanoscience and Genomics, Karunya Institute of Technology and Sciences, Coimbatore.	UV-Vis Spectroscopy of Nanomaterials	

11	23.11.2021 -- 27.11.2021	Solid State and Material Science	18UPCC51	Nanomaterials	Physics	Dr. P. Dinesh R Rotake, Research Associate of Electrical Engineering, Indian Institute of Technology, Hyderabad.	Micro - nano fabrication techniques and its application in sensors	338
						Dr. G. Gnanakumar, Head of the Department of Physical Chemistry, Madurai Kamaraj University, Madurai	Validictory address	
12	31.01.2022 - 05.02.2022	Solid State and Material Science	18UPCC51	Exploring New Frontiers in Chemical and Biological Sciences	Chemistry	Dr. Desigan Kumaran, Structural Biologist, Brookhaven National Laboratory, USA.	A new structural paradigm in heme binding proteins	330
						Dr. Suguna Perumal, International Research Professor of Chemical Engineering, Yeungnam University, South Korea.	Hydrogels for multiple heavy metal adsorption	
						Dr. P. Yuvaraj, Senior Scientist, CSIR- North East Institute of Science and Technology Branch Laboratory, Manipur.	Synthesis of biologically active small molecules using sustainable C-H activation approach and their medicinal applications	
						Dr. P. Pon Sathiesh Kumar, Senior Post Doc. Researcher, Institute of Basic Science, POSTECH, South Korea.	Gene delivery - challenges, advancement and applications	
						Dr. Parthiban Marimuthu, Institute of Organic Bio Hospitals, New Delhi.	Fundamentals of oxygen biochemistry with special reference to body immunity	

12	31.01.2022 - 05.02.2022	Solid State and Material Science	18UPCC51	Exploring New Frontiers in Chemical and Biological Sciences	Chemistry	Dr. Kathiresan V. Sathasivam, Senior Associate Professor of Biotechnology, Asian Institute of Medicine, Science and Technology University, Malaysia.	Conversion of waste into wealth research to commercialization	330
13	18.02.2022 -- 23.02.2022	Advanced Physics	18UPHI61	Smart Materials for New Technology	Physics	<p>Dr. K. R. Jayapriyan, Assistant Professor, Centre for Advanced Studies in Botany, University of Madras, Chennai.</p> <p>Mr. Velmurugan N Ramachandra, Vice President of Engineering, AMP Med Tech, Massachusetts, USA</p> <p>Dr. Delhi Babu Prabhu, Scientist-D, Centre for Automotive Energy Materials, International Advanced Research Centre for Powder Metallurgy and New materials, IITM Research Park, Chennai</p> <p>Dr. Jitendra Satija, Associate Professor, Centre for Nano Biotechnology, Vellore Institute of Technology, Vellore.</p> <p>Dr. K. R. Ravi, Associate Professor of Metallurgical Materials Engineering, Indian Institute of Technology, Jodhpur.</p> <p>Dr. T. Prakash, Assistant Professor, National Centre for Nanoscience and Nanotechnology, University of Madras, Chennai.</p>	<p>Commercial of Nano products</p> <p>Sensing technologies in medical diagnostic applications</p> <p>Nano Engineered Magnets</p> <p>Nanomaterials for optical biosensor: an insight into fiber optic sensors</p> <p>Lotus leaf effect</p> <p>Nano enabled sensors</p>	121

14	21.02.2022 -- 25.02.2022	Biotechnology	18UBCC51	Intellectual Property Rights	Botany	Dr. M. Sakthivel, Assistant Professor, Guru Gobind Singh Indraprastha University, New Delhi.	Introduction to IPR- National and International Perspective	125
						Dr. B. Deepa, Registered Patent Agent, Chennai.	Introduction to Patent System and Filling Procedure	
						Mr. A. K. Rajaraman, Advocate, High Court of Madras, Chennai.	Trademarks and Geographical Indications	
						Dr. P. R. L. Rajavenkatesan, Associate Professor and HoD, VIT School of Law, Vellore Institute of Technology, Vellore	Copyright	
						Dr. Narendran Thiruthy, Assistant Professor, Rajiv Gandhi School of Intellectual Property Law, IIT Kharagpur.	Biodiversity and traditional knowledge	
15	14.03.2022 -- 18.03.2022	Biotechnology	18UBCC51	Biotechnological Innovations in Health Care	Zoology	Dr. Gowri Priya Chidambaram, Scientist of Immunology and Stem Cell Biology, Aravind Medical Research Foundation. Madurai	Stem cell therapy for ocular surface reconstruction	77
						Dr. J. Nallathambi, Senior Scientist, Molecular Signalling and Gene Therapy, GROW Laboratory, Narayana Nethralaya Foundation, Narayana Health City, Bengaluru	Molecular diagnostic methods and its applications in hereditary eye diseases	
						Ms. S. Hemalakshmi, Project Manager, Gulf International Cancer Centre, Abu Dhabi.	We perceive what we conceive - Biotechnology in health care	

15	14.03.2022 -- 18.03.2022	Biotechnology	18UBCC51	Biotechnological Innovations in Health Care	Zoology	Dr. Kousalya Nathan, Anti-aging consultant, Apollo Hospitals, Chennai	Healthy aging	77
						Dr. James Premdoss Clement, Associate Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru	Overview of autism spectrum disorder using syngap1 as a model	
16	01.09.2022 -- 05.09.2022	Biotechnology	18UBCC51	Biotechnology Today and Tomorrow: Innovations and Implications	Zoology and Botany	Dr. M. Bavanilatha, Associate Professor of Biotechnology, Sathyabama Institute of Science and Technology, Chennai.	Biotechnological innovations in controlling diseases	47
						Dr. S. Umamaheswari, Professor of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli.	Earthworms in biotechnology	
						Dr. M. Kirupa Sankar, Assistant Professor of Biotechnology, Bannari Amman Institute of Technology, Erode.	Role of biotechnology in addressing future energy demand and creating circular sustainable bioeconomy	
						Dr. Karthika Pushparaj, Assistant Professor of Zoology, Institute for Home Science and Higher Education for Women, Coimbatore	Rationale of interdisciplinary sciences- tangible cues of sustainable development in the field of biotechnology	
17	08.02.2023 -- 10.02.2023	Biotechnology	18UBCC51	Techniques in Genome Biology	Zoology & Botany	Dr. S. Sudhakar, Professor of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli.	Mechanism of ageing	12
						Dr. T. Jebasingh, Assistant Professor of Plant Sciences, Madurai Kamaraj University, Madurai.	Identification and screening of plant viral genome	

17	08.02.2023 -- 10.02.2023	Biotechnology	18UBCC51	Techniques in Genome Biology	Zoology and Botany	Dr. Sujatha Kabilan, Assistant Professor of Zoology, Lady Doak College, Madurai.	Molecular characterization of microbial genome	12
						Dr. M. Jayalakshmi, Associate Professor, Department of Immunology, Madurai Kamaraj University, Madurai.	Isolation and quantification of Human Genome DNA	
18	13.02.2023 -- 15.02.2023	Medicinal Chemistry	21UCHS41	Molecular Modelling and Dynamics	Chemistry, Botany and Zoology	Dr. M. Murali Krishnan, Assistant Professor of Chemistry, Bannari Amman Institute of Technology, Erode.	Molecular modelling	16
19	14.02.2024 -- 16.02.2024	Biotechnology	21UBCC51	Exploring Biotechnology: Innovative Applications and Advancements	Zoology, Botany and Microbiology	Dr. S. Kalidas, Associate Professor and HoD of Animal Science, Manonmaniam Sundaranar University, Tirunelveli	Bio-prospecting of marine microbes from Gulf of Mannar for human therapeutics	27
						Dr. K. Murugan, Professor of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli.	Bionanoemulsion: Vehicle for exploring synergistic phytochemicals and healthy life	
						Dr. Ramasamy Subbiah, Professor and HoD of Biochemistry, Madurai Kamaraj University, Madurai.	Chemicals and diabetes inextricably linked: Tox- point research enters a new Era?	
						Dr. D. Illakkiam, Assistant Professor of Biotechnology, Mother Teresa Women's University, Kodaikanal.	<i>In silico</i> approach for characterization of gene and its expression studies	
20	27.08.2024 -- 29.08.2024	Organic Chemistry	21UCHC62	<i>In silico</i> Modelling approach for Pharmaceutical Sciences	Chemistry and Botany	Dr. T. S. Gnanendra, Head of Biotechnology, Vivekanandha College of Arts and Sciences for Women, Namakkal.	Use of computational tools in drug discovery modellig and simulations	21