

DEPARTMENT OF MICROBIOLOGY

Training programmes- Attended by Faculty(2022-23)

Name of the faculty	Details of the course	Duration of the course	Institute/organization
Dr T. Chaitanya	Three day hands on national workshop on gene cloning	24 th to 26 th April, 2023	Dept of Microbiology, Nizam college
Dr K. Anuradha	Fermentation-interplay of microbes,immunity and nutrition	3 rd and 4 th February, 2023	Dept of rural development and Agricultural production, RDAP
Dr Y. Aparna	National Credit Framework:Credit Transfer policy	10 th February, 2023	Institution of Eminence and Human resource development center
Dr Deepak Raj	Research based pedagogical tools in life sciences	6 th to 8 th February, 2023	Dept of Microbiology, O.U
Dr Mahalakshmi	Research based pedagogical tools in life sciences	6 th to 8 th February, 2023	Dept of Microbiology, O.U
Dr Shalini Devi	"Structural Biology" NPTEL course	January to April, 2023	NPTEL-AICTE
Dr Y Aparna	Academic leadership and management in higher education in a globalised economic era	2 nd to 4 th March, 2023	Dept of commerce and business management, University college of arts and science, Krishna university

Dr S. Anju	MOOCs and e-Content development	29 th April to 5 th May, 2023	Guru Angad Dev teaching learning center, university of Delhi
Dr K. Anuradha	MOOCs and e-Content development	29 th April to 5 th May, 2023	Guru Angad Dev teaching learning center, university of Delhi
Dr Y Aparna	MOOCs and e-Content development	29 th April to 5 th May, 2023	Guru Angad Dev teaching learning center, university of Delhi
Dr J Sarada	MOOCs and e-Content development	29 th April to 5 th May, 2023	Guru Angad Dev teaching learning center, university of Delhi
Dr Deepak Raj	MOOCs and e-Content development	29 th April to 5 th May, 2023	Guru Angad Dev teaching learning center, university of Delhi
Dr Shalini Devi	Online refresher course in lifescience	15 th to 28 th November, 2022	UGC- HRDC, OU, Hyd
Dr Chaitanya	Online refresher course in lifescience	15 th to 28 th November, 2022	UGC- HRDC, OU, Hyd
Dr Y Aparna	Mentoring pedagogy and class room delivery enhancement techniques	3 rd to 10 th August, 2022	IIT Guwahati
Dr S. Anju	Mentoring pedagogy and class room delivery enhancement techniques	3 rd to 10 th August, 2022	IIT Guwahati

Dr Shalini Devi	Mentoring pedagogy and class room delivery enhancement techniques	3 rd to 10 th August, 2022	IIT Guwahati
Dr Y Aparna	4th national level workshop on NIRF India rankings 2023	21 st December, 2022	Bhavans Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Hyderabad.
Dr Y Aparna	National intellectual property awareness mission	15 th December, 2022	Intellectual property office, India
Dr Deepak Raj	Applications of fermentation technology	29 th November, 2022	Dept. of Microbiology, St. Francis College

Training programmes- Attended by Faculty(2023-24)

Dr S.Shalini Devi	International conference	International conference on microbiological research: current challenges and future perspectives-2024	9-1-2024 to 11-1-2024
Dr. J. Sarada	Workshop	SERB Sponsored Workshop on Genome Editing, BITS Pilani Hyderabad	17 th and 18 th November 2023
Dr. K Deepak Raj	Workshop	SERB Sponsored Workshop on Genome Editing, BITS Pilani Hyderabad	17 th and 18 th November 2023
Dr Mahalakshmi			30-7-2023 and 31-7-2023
DR K. Anuradha	Conference	Aspects of effective teaching-organized by teaching-learning center of BITS PILANI, Hyderabad campus	1-6-2023 to 6-6-2023
DR Y. Aparna	FDP	Strengthening teaching-learning and evaluation process in higher education organized by IQAC,BVC	1-6-2023 to 6-6-2023
Dr S.Shalini Devi	FDP	Strengthening teaching-learning and evaluation process in higher education organized by IQAC,BVC	9-1-2024 to 11-1-2024

VISITS(2022-23)

Course/Activity	Dates/ Duration	No of beneficiaries
Visit to AG Biosystems, Cherlapally	16th May 2022	37 UG students
Industrial visit to Sewage Treatment plant, MCH, Amberpet	29 th Oct 2022	37 UG students



VISITS(2023-24)

Course/Activity	Dates/ Duration	No of beneficiaries
Visit to CROWN BEVERAGES and CHARMINAR BEVERAGES	7- 12-23 (one day)	75 UG students
Visit to CCMB- One -Week One-Lab	1-8-2023 (one day)	28 UG students



Guest Lectures 2022-23

Department	Name Designation Host Institute	Title of the Lecture	Date
Microbiology	Dr. Naveen Kumar R, Senior Technical Officer, NIN, Hyderabad	Use of Lytic phages for Bio Food preservation	28th September 2022
	Dr. E.M. Shankar, Professor, Central University of Tamil Nadu	Immune System – a double edged sword	21st October 2022
	Prof.M.S. Reddy, Founder and Chairman of Asian PGPR Society, Auburn University, USA	“Eco-Evolutionary response of Plant- Microbiome interactions under Climate change for sustainable Agriculture	25th January, 2023



Guest Lectures 2023-24

Department	Name Designation Host Institute	Title of the Lecture	Date
Microbiology	Sandhya Ganesan Assistant Professor Department of Biology IISER Thiruvananthapuram, Kerala	Immune Evasion Mechanisms	27-7-2023
	Dr Subha Narayan Das Assistant Professor Department of Botany Indira Gandhi National Tribal University, Madhya Pradesh	Plant Immunity: How plant defend themselves?	24-11-2023
	Prof. Gnanesh Nanjappa Professor and Dean Department of Genetics and Plant breeding Sampurna International institute of Agri Science and Horticulture Technology, Karnataka	Occurrence, Molecular characterisation and Standardization of Screening Techniques of Fungal Pathogens: Current Trends and Future Perspectives	2-12-2023
	Dr Hameeda Bee Associate Professor, Chairperson-BOS, Department of Microbiology, Osmania University	Human Microbiome	12-12-2023



Awareness generation programmes / exhibitions / seminars, training programmes 2022-23

Department	Topic	Date	Nature of beneficiaries
 	Microbiology	International Microorganisms Day	120
		World Rabies Day	400
	Polio awareness Program	24/10/2022	108
	Microbes in our daily Life	11th October, 2022	Zilla Parishad High School, Kapra -10 th class students-150
	HIV Awareness Program	1/12/2022	160
	Experiments on Microbial Food spoilage, Detection of Microbial Milk spoilage and Blood Grouping	17th December 2022	
	Bioverse-Microbial Petri Art Competition	9 th Feb, 2023	28 teams (2 in each team)
	Bioverse- Model Making	9 th Feb, 2023	9 teams



Awareness generation programmes / exhibitions / seminars, training programmes 2023-24



Department	Topic	Date	Nature of beneficiaries
Microbiology	Awareness of Food Borne Diseases and Significance of Drinking Milk	12-7-2023	KV, Trimulgherry school students of 9th & 10th Class
	Rangoli Competition on Viral Diseases	2-9-2023	BVC-UG/PG 28
	Value Added Course on Basics in Nanobiotechnology	6-9-2023 to 25-9-2023	National Level UG/PG 49
	Microbial Marvels- Exhibition of Microbial Products (World Microorganisms Day Celebrations)	23-9-2023	BVC-School children and intermediate college students 350
	Skill Training program at Accu Analytics, pharmaceutical lab	21 st and 22 nd Dec 2023	BVC-UG 30
	National Seminar on The Microbiome Revolution: From Fundamental Science to Therapeutic Innovations	24 th and 25 th January 2024	National Level



Research Projects- Department specific

Projects – DEPARTMENT OF MICROBIOLOGY

1. Designing of cost-effective media for mass multiplication of PGPR consortium/Biofertilizers.
2. Strain improvement of microorganisms for high enzyme yield.
3. Screening of microbes with antimicrobial properties by using crowded plate method.
4. Biological synthesis and characterization of nanoparticles.
5. Microbial biodiversity of pondwater ecosystem.

Interdisciplinary projects

1. Optimization of media for antimicrobial compounds production from streptomyces sp.
2. Synthesis of different types of Nanoparticles using waste and their Comparision

Student's achievements- Impacts of DBT support 2022-23

1. K. Mahesh , 2nd year student secured the First prize in the Iron throne competition organized Department of Genetics and Biotechnology of Bhavans Vivekananda College of Science during the celebration of Bhavanostav.
- 2 K. Mahesh, 2nd year student participated in a PPT presentation organized by the Department of Chemistry at Sarojini Naidu Vanita Mahavidyalaya College, which took place on the 24th of February 2023, and secured the second prize.
3. Sadhbhavana 2nd year student won second prize intercollegiate PPT competition on 24 th Feb 2023 organized by the Department of Chemistry at Sarojini Naidu Vanita Mahavidyalaya College



S. Sai Abilash, 1st year student participated in a PPT presentation organized by the Department of Botany at Sarojini Naidu Vanita Mahavidyalaya College, which took place on the 24th of February 2023, and secured the second prize.



Student's achievements- Impacts of DBT support

2023-24

1. Ms Naga Sushma, MGC final year has received Best student award for the year 2023 from Microbiologists society of india
2. Ms Awantika and Ms Naga Sushma won first prize in Rangoli competition conducted based on the theme "Viruses". They also won first prize in Micobial Marvels- A microbial products exhibition.
3. K. Niharika (MGC-3)K. Mahesh (BtMC-2)Y. V Tanishq (BtMC-2), Sahiti (BtMC-2)Sadhbhavana (BtMC-2) have won best presentation awards at Centre For Research Development , OU organised their first ever 'One Week Internship Program' from 28th Aug - 2nd sep.



Faculty achievements- Impacts of DBT support

Dr T Chaitanya received Meritorious Best Teacher award, Govt. of Telanagana and Senior Teacher award, Microbiologists society of India for the year 2023

Dr Shalini Devi received Best Young teacher award, Microbiologists society of India for the year 2023

Dr T Chaitanya awarded Second prize in Oral presentation – Interdisciplinary National Conference on Scientific approaches for Sustainable approaches organized by Wilson College in collaboration with University of Mumbai on 4th and 5th Dec 2023

Dr Shalini Devi received Best research paper- oral presentation award at International conference on microbiological research: current challenges and future perspectives-2024



LIST OF NEW EXPERIMENTS

1. Production of citric acid using various industrial and agricultural byproducts
2. Isolation of amylase and cellulase producing microbes from varied environmental sources
3. Isolation of T2 bacteriophage from sewage sample
4. Isolation of methanogenic bacteria and production of biogas
5. Determination of BOD of various water samples collected from various ponds located in secunderabad.
6. Analysis of Microbiological quality of air at various locations
7. Isolation and identification of various fungal food contaminants
8. Microbiological examination of various water samples like RO water and Municipal treated water by coliform test