



Little Flower Degree College

(Affiliated to Osmania University)

Uppal, Hyderabad

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LEAD TO ILLUMINATE



DEPARTMENT OF LIFE SCIENCES

2024-25



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Faculty of Zoology - Attended & presentation of poster at National Conference by CSIR-NEERI

Ms. Vaishnavi. B & Priyanka Yadav undergraduate students of BZC & MZC and Dr. Gomathi. K, Assistant Professor, Faculty of Zoology attended and presented poster at **One Day National Conference on Environmental Impact Assessment: Resource Management & Policy making ERPM-2024** organized by CSIR- NEERI, Hyderabad on 19th July 2024. The topic presented was **“Analysis of Physicochemical Parameters of Water Quality in Bibi Nagar Lake, Yadadri Bhuvanagiri District, Telangana”**. Anthropogenic activities such as disposal of sewage and industrial effluent, domestic waste and the use of pesticides have threatened the environmental health of surface water, so a detailed water analysis was carried out. The study highlighted the importance of constant monitoring and implementation of appropriate treatment processes to ensure the quality of water to support life in it. The scientific sessions at the seminar provided an excellent platform for learning and gaining a deep insight on the issues pertaining to Environmental Impact Assessment, Resource Management & Policy Making.



Poster presentation by Vaishnavi & Priyanka Yadav



Presentation to the Expert team of EPRM



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Faculty of Microbiology - One Day National Conference

The Department of Life Sciences Faculty of Microbiology attended a poster in One Day National Conference on Environmental Impact Assessment: Resource Management & Policy Making on 19/07/2024. B. Sc BTMC III year student Ms. Margadavalli presented on topic Leachate Treatment using Bio enzyme produced from Citrus peel Waste. Dr. J. Usha Rani and Student received participation. It was a learning experience for students and staff in the field of Environmental Impact Assessment: Resource Management & Policy Making from the sessions attended during the conference.



B. Sc BTMC III year student Ms. Margadavalli presented on topic Leachate Treatment using Bio enzyme produced from Citrus peel Waste to the Judges photo. Faculty of Life Science attended the National Conference



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Faculty of Botany - World Mango Day Celebrations

The faculty of botany celebrated world mango day on 22nd July 2024 by conducting a food competition for BSc Students. Students prepared dishes with mango as main ingredient and explained the benefits and nutritional value of mango. The students were given prizes and participation certificates. for students from BSC. Students shared their knowledge about the health benefits of Mangoes and rich diversity of mangoes.



Students participating in the competition and receiving prizes



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Faculty of Microbiology - WORLD SJÖGREN'S DAY

Faculty of Microbiology Department of Life sciences B. Sc., MZC III-year students attended WORLD SJÖGREN'S DAY Intercollegiate, poster presentation Competition. The event was organized by Bhavans Vivekananda College in collaboration with the Microbiologists Society of India, offering a platform for students to showcase their knowledge and creativity in the field of microbiology. M. Priyanka Yadav and Ganesh delivered impressive presentations that demonstrated their understanding of the topic and their skills in research paper presentation. The Judges were Dr. S. Anju, MSI, Telangana Chief Coordinator evaluated their presentation patiently with a word of encouragement to each one of them for their extensive study. **M. Priyanka Yadav secured the second prize** for her exceptional poster presentation. The event concluded on a positive note, their active participation in such competitions continues to reflect positively on our institution, promoting their academic and professional development.



M. Priyanka Yadav MZC III Year receiving second prize Intercollegiate Competition. Group photo of M. Priyanka Yadav and Ganesh from B. Sc. MZC III Year with Director Rev. Bro. John Kallarackal principal Mrs. Jayanthi LFDC. M. Priyanka Yadav won second prize in Intercollegiate Competition, on WORLD SJÖGREN'S DAY Organized on 27th July 2024 by Bhavans college, Sainikpuri photo



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Faculty of Microbiology- Five Day Online FDP

Dr. J Usha Rani Faculty of Microbiology, Department of Life sciences attended Five Day Online FDP organized by School of Science Humanities and R& D Cell K. S Ramaswamy College of Arts and Science Tamil Nadu from 06/09/2024 to 12/09/ 2024. The resource persons were M. S. Shiva Kumar; Dr. Balaji spoke advance immune techniques to diagnose and cure diseases. The FDP was organized for Faculty to learned recent advancements in Biotechnology, Biochemistry and Microbiology in perception of industrial research skills.

11:50 11:41 11:21

Tap to return to meeting 01:27

Organiser

K1 KSRCAS Library 1 Started recording

Participants

- Dr. J. Usha Rani Attendee
- 22UMB023 (Unverified) Attendee
- Aditya shrivastav (Unverified) Attendee
- Archana.D (Unverified) Attendee
- aruna prakash (Unverified) Attendee
- Ashwini (Unverified) Attendee
- Ayushi Srivastav (Unverified) Attendee
- Bharathi . (Unverified) Attendee
- Bhavik Darolia (Unverified) Attendee

Dr. J Usha Rani Faculty of Microbiology attended Five Day Online FDP organized by School of Science Humanities and R& D Cell K. S Ramaswamy College of Arts and Science Tamil Nadu The Resource person in the photo was M. S. Shiva Kumar



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Faculty of Chemistry- World Ozone Day Celebrations

The faculty of chemistry organized a drawing competition on the occasion of "World Ozone Day" to undergraduates of I and II years of BtMiC, MZC on 19th September 2024. The theme of the competition was Montreal Protocol: Advancing Climate Action". This theme highlights the role of the Montreal Protocol in protecting the ozone layer and reducing harmful substances like chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs). The competition is to bring awareness on how to protect the ozone layer and environment for survival of life on Earth. Students participated actively in bringing up their creative skills in drawing. Overall, it was a great success. And the event was judged by the judges.



Students participating in the competition and presenting their artistic views



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Faculty of Microbiology - International Microbiology Day

Faculty of Microbiology, Department of Life Sciences Organized International Microbiology Day on 19th September 2024. Dr. Anoor Pawan Kumar (Alumni LFDC), Sr. Executive, Sanzyme Biologics(P)Limited, Karkapatla, Genome Valley, Hyderabad, and Mr. K. Krishna Prasad Reddy (Alumni LFDC), Research associate, Performics analytical labs, Hyderabad. Were the invited Guest speakers for the event. Dr. Anoor Pawan Kumar spoke on the Topic "Where your Dreams meet a Direction! " And gave insights to the students about various entrances and funding resources available for higher education. Mr. K. Krishna Prasad Reddy spoke on Topic "Role of Microbiologist in Pharma Industry". He shared his industrial experience and importance of SOP and handling Instruments in Industry. After the speaker's session, an e-poster presentation was carried out. Students from Different Colleges presented e-poster enthusiastically on Theme: MICROORGANISMS FOR SUSTAINABLE SOLUTIONS: "ENVIRONMENTAL AND CLINICAL IMPLEMENTATIONS". Students learned how to do literature surveys and present papers. The event concluded with felicitation of LFDC Alumni guest speakers, distribution of certificates for the winners and followed by Vote of thanks.





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Faculty of Botany - Attended Workshop on Basic Advances in Plant Taxonomy & Herbarium Preparation Techniques

The faculty of botany took BSc Botany Students to attend Workshop at Government City College- Nayapul on 20th September 2024. The students got first hand exposure to diverse plant species offering a deeper understanding of plant collection. Students got hands on experience of collection, preparation and preservation of herbariums. Students receive participation certificates.



Demonstration of Herbarium preparation and distribution of certificates by the Director



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Intercollegiate Competitions

Faculty of Chemistry - Chembola Competition

The Faculty of Chemistry conducted an intra collegiate competition in Chembola. In which students in a team of two were asked to play housie with elements name said, they had to calculate their atomic number and then scratch the number in their tickets of housie provided for them. It was a memory, analysing, understanding and exhilarating event. 29 students participated and there were winners too. It was judged by few volunteers and faculties of chemistry in all it was a successful event.



Active participation of students in the competition



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Faculty of Microbiology - Sing the Science Intra collegiate competition

The Department of Life sciences Faculty of Microbiology conducted an Intra collegiate competition for B. Sc., life science students. The topic given was Sing the Science conducted on 30/09/2024 in the P13 Lecture Hall. The objective of the event is to make the students express their interest in science subjects in the form of a song. Students took part in the event with great enthusiasm and learned the way of expressing the science and their topic in an innovative way. It was a memorable and fun experiential learning time for students to enjoy science.



Life Science of 1,2 3-year B. Sc Students took part in Sing the science and presented in front of Judges



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Intra collegiate Competitions

Faculty of Zoology - Zootoon Animal Cartoon Rangoli

The Faculty of Zoology conducted Zootoon Animal Cartoon Rangoli as a part of Intra Collegiate Literary Competitions on 1st October, 2024. The competition was organized to express their innovative and artistic ability. A total of 25 teams with two students per team from different streams participated with great enthusiasm in the competition. The participants selected and made Rangoli of animal cartoon characters which they had been familiar with from their childhood. An appropriate caption for each character was also written along with the rangoli. Engaging in this competition allowed the students to express their artistic abilities and creativity through the medium of Rangoli, enhancing their creativity. They also learned the value of teamwork, cooperation and effective communication.



Students participating in animal cartoon Rangoli



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Birds eye view of the Zootoon Rangoli competition

Judges evaluating the creative rangolis



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Intra Collegiate

Faculty of Biotechnology - Bio Puzzle Competition

The Faculty of Biotechnology conducted Bio puzzle as a part of Intra Collegiate Literary Competitions on 31st November 2024. The puzzle had a total of 31 clues- across and down with topics related to Biotechnology. A total of 21 teams with two students per team participated with great enthusiasm in the competition. A time limit of 20 mins was given to each team to solve the puzzle. The competition helped students to improve their knowledge and team work.



Students participating in the competition



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Intra Collegiate Faculty of Botany - Botany Buffs Competition

The faculty of Botany organized Botany Buffs competition on 30th September 2024. The students from different streams participated in the event. The competition focused on identification of variety of fruits and vegetables. The competition allowed students to practically apply their theoretical knowledge gained in classrooms, their enthusiasm and active participation demonstrated a genuine interest in exploring concepts beyond traditional learning environments.



Active participation of students in the competition



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Faculty of Zoology - Attended Wild life celebration at ZSI

Faculty of Zoology and students of BZC & MZC participated in National Wildlife week celebrations at Zoological Survey of India- Freshwater Biology Regional Centre, Hyderabad-Ministry of Environment, forest & Climate Change, Govt. of India on 10th October 2024.

National Wildlife Week 2024 in India was celebrated from October 2 to 8, with the theme "**Safeguarding Our Natural Heritage.**" It was aimed to raise awareness about wildlife protection. Wildlife Week has since become an annual event which focused on promoting conservation and highlighting India's rich biodiversity. The students from different colleges participated in the elocution competition on the theme "**Connecting People and planet: Exploring Digital Innovation in Wildlife Conservation**". The overall outcome of Wildlife Week program gave a deep insight about significance of ecosystem conservation and highlighted India's rich biodiversity. Through live wildlife videos and competitions students learnt about what makes each species unique and how they play a key role in keeping our ecosystems healthy. Students of Little Flower Degree College bagged two prizes in Elocution competition: Rudra Rai, MZC II yr bagged II prize and Reuben Marvin MZC got III prize.



Rudra Rai, MZC II receiving 2nd prize &
Reuben, MZC I receiving 3rd prize in Elocution competition



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Students with ZSI Scientist



Visit to ZSI museum



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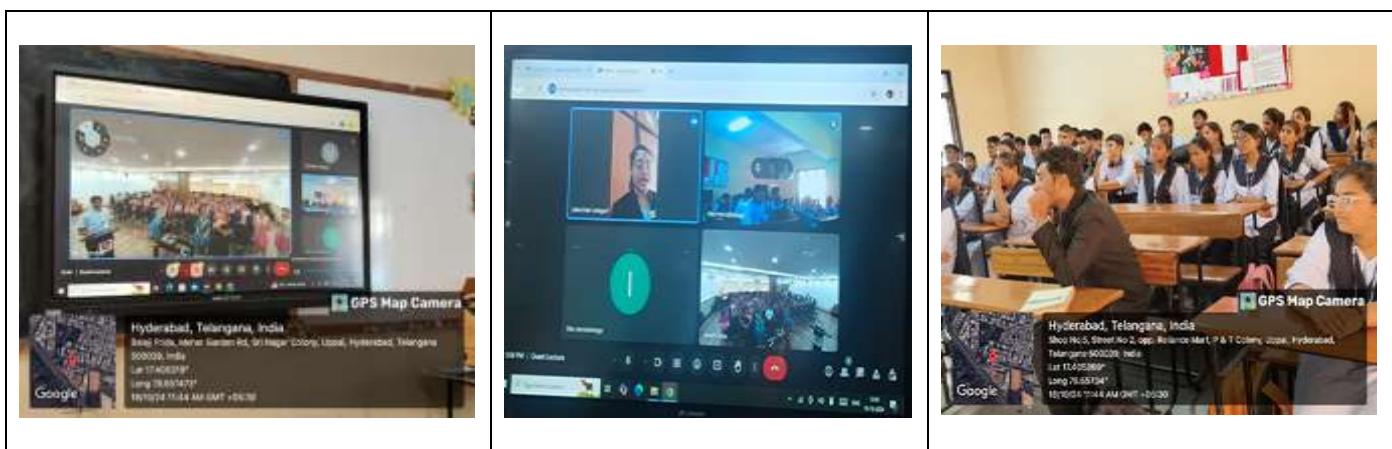
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Faculty of Microbiology - online webinar MOU Patna College

The Faculty of Microbiology, organized an online webinar on " Research methodology in Microbial Nanotechnology " MOU with the Department of Microbiology, PATNA WOMEN'S COLLEGE (AUTONOMOUS), PATNA UNIVERSITY for undergraduate Life Science students on 18th October 2024. Dr. MANOJ KUMAR, University Professor, Department of Microbiology, Bihar Animal Sciences University, Patna was the resource person for the webinar. B.Sc. Life science students from Little Flower Degree College and PATNA WOMEN'S COLLEGE attended the MoU online webinar. The online guest lecture gave a broad introduction to some of the key concepts of Research Methodology in Microbial Nanotechnology. its Importance, Applications and uses in Agricultural, Medical, Industrial, Pharmaceutical fields; As a Career option; its Expected Outcomes; Budget and Resources for the research project was discussed.



Dr. MANOJ KUMAR, University Professor, Department of Microbiology, Bihar Animal Sciences University, Patna was the resource person for the webinar, Students from B.Sc. Life Science LFDC attending session



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Faculty of Zoology & Microbiology

Attended Faculty Development program workshop by Loyola Academy

Dr. Gomathi. K & Dr. Usha Rani, Assistant Professor, Faculty of Zoology & Microbiology attended Faculty Development Program workshop on Advanced Techniques in Molecular Biology & Biotechnology" on 29th November to 03 December 2024 organized by Dept. of Biotechnology, Loyola Academy, Hyderabad. The keynote address was given By Dr. Krishna, Head of Marketing, GeNei Laboratories. Hands-on training sessions and practical modules on RT- PCR, Detection of Genetically modified organisms by PCR, Animal Cell culture, RFLP, Plant Genome Extraction & Gel Electrophoresis were organized by GeNei Laboratories, Hi Media & Loyola Academy. Overall, the hands-on training and practical modules highlighted the recent advances and technical skill in Molecular Biology. FDP Workshop was a unique platform for academicians to discuss and enhance their teaching skills in the field of advanced Biology.



Faculty attending FDP workshop at Loyola Academy



Dr. Gomathi. K & Dr. Usha Rani undertaking the hands-on training in tissue culture technology



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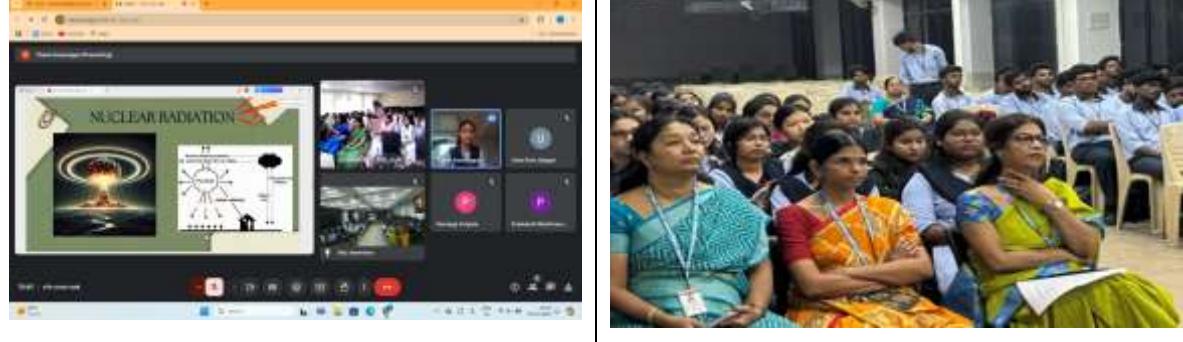
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Faculty of Chemistry - MoU Activity: Multi-Disciplinary Seminar PPT Presentation

On 28th of October, 2024, students from the department of life science & arts, LFDC, and Nirmala college, presented a PowerPoint (PPT) on the "Role of chemical weapons in contemporary geopolitics." The student presentation on the role of chemical weapons in contemporary geopolitics was both informative and engaging. It effectively connected historical perspectives with current issues, underscoring the importance of international cooperation in addressing the challenges posed by chemical weapons. This session not only enriched participants' understanding of the topic but also highlighted the ongoing relevance of chemical weapons in global security discussion.



Students actively participating and giving PPT Presentations on the topic



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Faculty of Botany - Guest Lecture on Algal Research

The faculty of botany organized GUEST LECTURE on ALGAL research for biodiversity and conservation for BSc Botany students. The Lecture was given by Dr. Nivedita Sahu. The lecture focused on wide use of Algae for research and commercial purpose. The lecture also highlighted the cultivation techniques and bioactive compound extractions from algae. The students gained knowledge from the session.



Session on algae with presentation by resource person and active interaction by students



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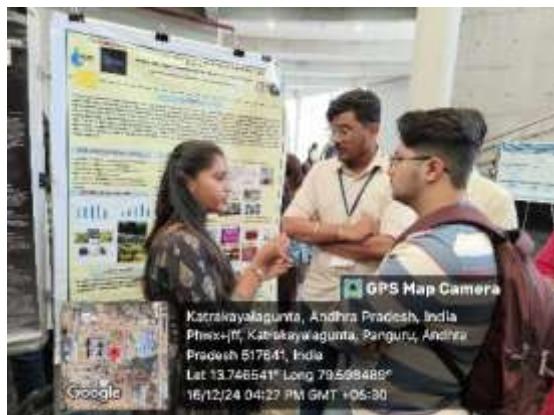
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Faculty of Microbiology - National Conference for Undergraduate Research in Biosciences

Faculty of Microbiology, Department of Life Sciences attended and presented poster in National Conference for Undergraduate Research in Biosciences (NCURB), IISER Tirupati on 16th and 17th December 2024. Total sixteen students took part in the event and four students presented poster. Students gained insights including networking with experts, enhancing skills like public speaking and communication, expanding knowledge, and gaining visibility in their field, ultimately boosting career prospects.





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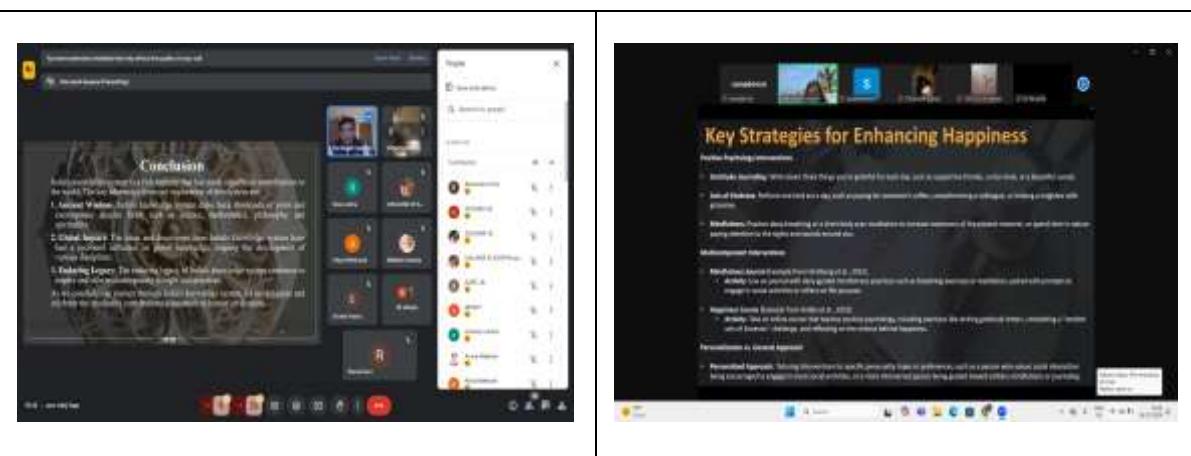
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Faculty of Chemistry - Attended UGC MMTC Short Term Course

Osmania University, Hyderabad has organised an **Online Short-term Course on Stress Management & Mental Wellbeing**. Ms. M. Ramadevi, Faculty in Chemistry, LFDC has attended this program from 16th December 2024 to 21st December 2024 for 6days. This course prepared faculty to deal with challenges more effectively, resulting in a healthier and more positive work environment. The insights gained will help improve mental resilience, productivity, and a balanced approach to daily tasks. Participants valued the enriching experience and are eager to implement these strategies in their personal and professional lives.



Highlights of the session attended by the faculty of chemistry



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Faculty of Biotechnology - LSSSDC Certificate Course



Students participating in the course and receiving certificate



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Faculty Of Zoology - (LSSSDC) Life Sciences Sector Skill Development Council Certificate Course for Upskilling

The Faculty of Zoology organized a certificate course for MZC I, III & BZC III-year students in collaboration with Manna Biotech, Nacharam from 18th February to 22th February 2025. It is a Life sciences Sector Development Council certificate course for upskilling under NCVET. The course provided students an opportunity to learn clinical data validation and quality control which explores the key components of data standardization, clinical trials, consistency and completeness.



BZC, MZC Students with the LSSSDC Upskilling team session on quality control



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Receiving certificate for upskilling certificate course



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Faculty of Zoology - Attended World wetland day celebration at Zoological Survey of India

Faculty of Zoology and students of BZC & MZC participated in World Wetland Day at Zoological Survey of India- Freshwater Biology Regional Centre, Hyderabad-Ministry of Environment, forest & Climate Change, Govt. of India on 3rd February 2025.

World wetland day is celebrated to spread awareness about the importance of wetlands for humanity and the whole planet with the theme "**Protecting Wetlands for our Common Future**". The event highlighted the critical role of wetlands in environmental conservation, biodiversity, and sustainable livelihoods. Students from different colleges participated in the elocution, drawing and quiz competitions on the theme "**Conserving wetlands for a sustainable future**". The program gave a deep insight about the need for collaboration and foresight as it calls for valuing and protecting the ecosystem. Through live wetland habitat videos and competitions students learnt about what makes each species unique and how they play a key role in keeping our ecosystems healthy. Students of Little Flower Degree College bagged prizes: Rishika 1st prize & Gnana Priyanka, 3rd prize in drawing, Rafeeq Hussain bagged 2nd prize in quiz, Keerthi 3rd prize in Elocution competition.



Students participating in World wetland day competitions at ZSI



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Rafeeq Hussain bagged 2nd prize in quiz competition at ZSI, India



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Intercollegiate Competitions - Bio Whisper Challenge

The Department of Life Sciences organized an event called Bio Whisper Challenge as part of Intercollegiate competitions on 04.02.25. There were 23 teams of 3 members each and played three rounds of challenge. Round 1 is Bio Charades acting out Biology, round 2 is Bio draw visualizing Biology and round 3 as Bio whisper relay where they cracked the clue given to them by lip reading the whisper. The students took up the challenge to crack the clues given to their teams to go to the level for selection. Seven teams played the final round and three teams were selected as winners. The main aim of the event was to bring an understanding, coordination and teamwork among them. The participants incorporated their innovative expressions and creativity in cracking the clues. The event highlighted the innovative creativity and engagement of students in addressing contemporary issues in a fun, engaging manner.



students participating in Bio draw visualizing Biology round 1

Participating in Bio charades round 2



Students participating in Bio whisper relay



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Faculty of Biotechnology - Attended Seminar on Synergizing Biotechnology with Computational and Statistical Biology for Exploratory Research

The Faculty of Biotechnology at sent BTMC second year students to attend the national Seminar on Bioinformatics and Biostatistics at St. Francis College, Begumpet on 12th February 2025 to enhance their knowledge. The seminar was inaugurated by Dr. Gaurav Sharma, assistant Professor from IIT Hyderabad. The participants were given certificates at the end of this internship. The seminar provided insights into cutting edge research tools and techniques which are revolutionizing advance research.



II BtMC Students attending the Seminar at St. Francis



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Department of Life Sciences - Career counselling for Intermediate students

The department of Life sciences had organized a career counselling program for Intermediate Science students of Little Flower Junior College on 17th February 2025. Students of Life Sciences presented a short video on the activities and achievements of the department, they also gave a PowerPoint presentation on the career prospects, higher education and areas of research activities in the field of Life Sciences. They elaborated about the future prospects as a researcher, academician, industrialist, diagnostics, Biologist, conservationist. The students interacted with the inter students about the laurels and alumni of the department.

| | |
|-------------------------------------------------------------------|----------------------------------------------|
| | |
| Life Sciences students interacting with the intermediate students | short video presentation on career prospects |
| | |
| Video on Alumni of department about placements & higher education | |



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Faculty of Biotechnology - MoU Activity – Research Projects in Biotechnology

The Faculty of Biotechnology at in collaboration with Manna Biotech, Nacharam organized an MoU Activity of research projects for students. The Projects were carried out for a period of 3 months from January 2nd to March 31st 2025. Students of III BTMC & II BTMC took part in the Program and carried out research projects under the guidance of Dr. Chatyusha. The students had an industrial exposure as well as learnt the different techniques enhancing their technical skills.



BtMC Students doing Research projects at Manna Biotech, Nacharam



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Faculty Of Microbiology - Food Safety and Quality Assessment training at CSIR - NCL

Mr. Rudra Rai from MZC II and Shreya Joshi from MZC III attended Food Safety and Quality Assessment training at CSIR-NCL from 3rd to 14th February 2025. The skill development course provided an extensive hands-on experience in microbial analysis, molecular biology techniques, and advanced analytical methods for assessing food quality. The course was meticulously structured, combining practical laboratory work with expert-led lectures to ensure a deep understanding of food safety protocols, microbial identification, and analytical chemistry. This training equipped participants with skills essential for research and industrial applications in food quality assurance.



Mr. Rudra Rai from MZC II and Shreya Joshi from MZC III attended Food Safety and Quality Assessment training at CSIR-NCL from 3rd to 14th February 2025 photo



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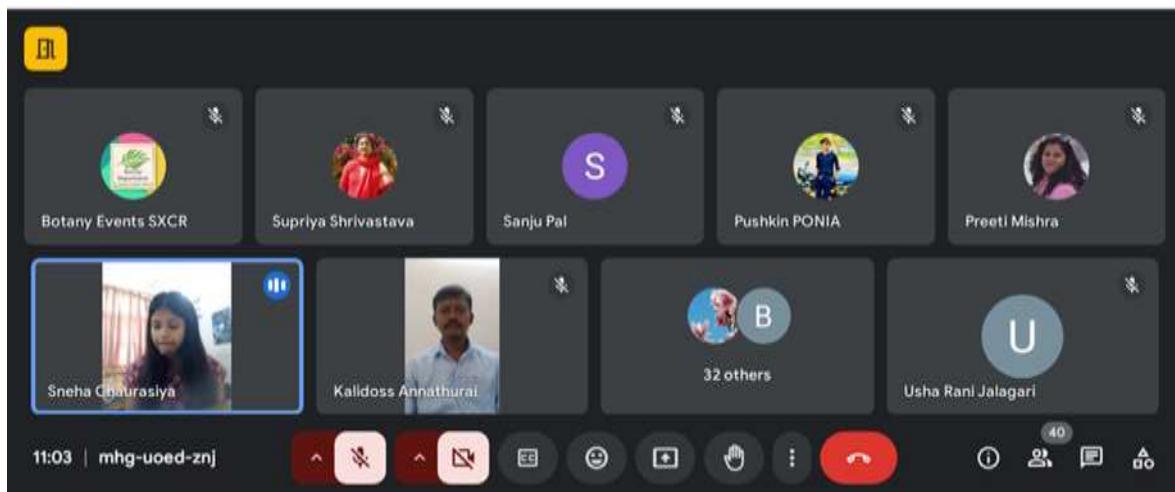
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Faculty of Microbiology - International Workshop on Plant Tissue Culture

Dr. J. Usha Rani, Faculty of Microbiology, Department of Life Sciences attended International Workshop on Plant Tissue Culture organized by St. Xavier's College, Ranchi on 16/03/2025. Dr. Kalidoss, Asst Prof, SRM college, Tamil Nadu. The workshop was informative and knowledge gaining, the session concluded with conducting online test, feedback and given participation certificate.



Dr. J Usha Rani Faculty of Microbiology attended an International Workshop on Plant Tissue Culture organized by St. Xavier's College, Ranchi. Introduction of resource person Dr. Kalidoss, Asst Prof, SRM college, Tamil Nadu. photo