



St. Francis

College for Women

Begumpet, Hyderabad-500016

(Autonomous & Affiliated to Osmania University)

Department of Zoology
Annual Report
ACADEMIC YEAR 2025-26

NAME OF THE DEPARTMENT: ZOOLOGY

1. WORKSHOPS CONDUCTED:

- The Department of Zoology, in association with Indian Pearl Farm, and sponsored by DBT under the Strengthening component organized a two day Hands-on training on “Nuclei Implantation techniques in Pearl Culture” on 28th & 29th January, 2026. The Resource person for the event was Mr. Nanjappa Puggera, Founder And Lead Trainer, Indian Pearl Farm, Karnataka, India. The event was organized for the Final year students of B.Sc IIIA and IIIN in Zoology Lab, SFC. 50 students participated in this program along with 4 faculty from the zoology department.

2. SEMINARS/CONFERENCE CONDUCTED :

- The Department of Zoology organized an International webinar on "Stewards of Our Blue Planet: Sea Turtles, Biodiversity and Conservation Initiatives" by Cathy S. Holmes – Founder, Navarre Beach Sea Turtle Conservation Centre Gulf Breeze, Florida, for the students of B. SC IIIA and IIIN , on September 27th, 2025. 80 students participated in this program along with 3 faculty from the zoology department.
- Commemorate World Wildlife Day the Departments of Zoology and Botany together organized a DBT-sponsored one-day seminar on “Conserving Health: Heritage and Habitat for Sustenance of Plants and Animals” on 7th February, 2026 for B.Sc Ist and IInd year Students. 200 students participated in the event.

3. WORKSHOP / SEMINAR ATTENDED (By the Faculty)

Dr. Jyothi Rani

- Dr Jyothi Rani attended one day National Virtual Seminar on “ Panet Vs Plastic: sustainable solutions for a Greener tomorrow”organized by SSR College, Karimnagar, Government Degree college, Jagityala and Kakatiya Government college, Warangal on 5th June, 2025.
- Dr. Jyothi Rani attended an International Day for Biodiversity - Harmony with Nature & sustainable Development - online Quiz organized by EPTRI Hyderabad on 21st May, 2025.
- Dr. Jyothi Rani attended 5 day National level Online FDP on “ Outcome Based Education, Binary Accreditation & Usage of AI organised by St. Mary’s College Hyderabad from 2nd to 6th June, 2025.
- Dr. Jyothi Rani attended FDP on “The Changing Face of NAAC Accreditation - BAF & MBGL” by Dr. J. A. Charles, organised by St. Francis College for Women, Begumpet, Hyderabad on 24th June, 2025.
- Dr. Jyothi Rani attended an online Faculty Development Program (FDP) on “Generative AI tools for smart teaching” organised by AIACHE, New Delhi.
- Dr. Jyothi Rani attended a seminar on the topic The Big Bang Mystery - Understanding the Cause and Effect organised by IQAC, St. Francis college for Women Begumpet, Hyderabad on 20th Feb, 2026.
- Dr. Jyothi Rani attended 3- Day Workshop on “ DNA Finger Printing” organised by Genome Foundation, Banjara Hills, Hyderabad on 18th 19th & 20th Dec, 2025.
- Dr. Jyothi Rani attended a webinar on The Gulf Crisis - India’s Energy security & Self Reliance organised by Council for Green Revolution on 4th April 2026.
- Dr. Jyothi Rani attended a National Seminar on “From Compliance to Excellence: A quality Journey” organised by IQAC cell St. Francis college for women, Begumpet, Hyderabad on 28th April, 2026.

Dr. Vidya Jayaram

- Dr. Vidya Jayaram attended FDP on “The Changing Face of NAAC Accreditation - BAF

& MBGL” by Dr. J. A. Charles, organised by St. Francis College for Women, Begumpet, Hyderabad on 24th June, 2025.

- Dr. Vidya Jayaram attended a one-day FDP on “AI for Higher Education Institutions” organized by the Department of Institutions, Innovation & Entrepreneurship Development Cell at SVP Engineering College, Visakhapatnam, in the year 2025.
- Dr. Vidya Jayaram participated in a one-day workshop on “Recent Trends in Education – Staying Relevant as a Teacher in 2025” organized by IQAC, St. Francis College, Hyderabad, in 2025.
- Dr. Vidya Jayaram attended a one-day program on “NAAC Reforms & Role of Faculty in Accreditation & Rankings” conducted by IQAC, St. Francis College, Hyderabad, in 2025.
- Dr. Vidya Jayaram participated in a one-day workshop titled “The Changing Face of NAAC Accreditation – BAF & MBGF” organized by IQAC, St. Francis College, Hyderabad, in 2025.
- Dr. Vidya Jayaram attended a three-day National Hands-on Training Workshop in “Modern Zoological Techniques” organized by the Department of Zoology, Osmania University, in 2025.
- Dr. Vidya Jayaram participated in a one-day FDP on “Generative AI in Higher Education: Emerging Tools & Future Directions” conducted by IQAC, Nirmala College for Women (A), Coimbatore, in 2026.
- Dr. Vidya Jayaram attended a National Seminar on “From Compliance to Excellence: A quality Journey” organised by IQAC cell St. Francis college for women, Begumpet, Hyderabad on 28th April, 2026.
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Ms. S. Sravanthi

- Ms. S. Sravanthi attended FDP on “The Changing Face of NAAC Accreditation - BAF & MBGL” by Dr. J. A. Charles, organised by St. Francis College for Women, Begumpet, Hyderabad on 24th June, 2025.
- Attended 3 day National Hands on Training Workshop in Modern Zoological Techniques

organised by the Department of Zoology ,Osmania University , Hyderabad from 4th to 6th December 2025.

- Attended guest lecture on ‘research grant management & readiness for effective fund utilisation on 24th Feb,2026 organised by Faculty Research Cell
- Faculty enrichment program on “Professional ethics on December 19th, 2026 organised by FDP and IQAC, St Francis College , Hyderabad.
- Attended a National Seminar on “From Compliance to Excellence: A quality Journey” organised by IQAC cell St. Francis college for women, Begumpet, Hyderabad on 28th April, 2026.

Dr. A Padmini

- Dr. A. Padmini attended 3- Day Workshop on “ DNA Finger Printing” organised by Genome Foundation, Banjara Hills, Hyderabad on 18th 19th & 20th Dec, 2025.

4.PAPERS PRESENTED, PUBLISHED / BOOK /CHAPTERS PUBLISHED BY FACULTY MEMBERS

Paper Presented by Faculty

- Dr. Jyothi Rani presented a Paper on” Avian Heritage and Dharmic Ecology: a Reinterpreting Ancient Indian Wisdom on Biodiversity Conservation” in a Two Day National seminar organised by Boi Aarot Publication, Kolkata,West Bengal on “Understanding India from its Grounded Knowledge” held on 29th & 30th March, 2026.

Books Published by Faculty

- Dr. Jyothi Rani Authored and contributed to the Publication of the Text book titled “Essential Developmental Biology” published by Book Bytes- Pencil Bitz A registered MSME, Government of India, ISO certified with ISBN: 978-93-48556-99-8 in July 2025.
- Dr. Vidya Jayaram Authored and contributed to the Publication of the Text book titled “Zoology for the Curious Mind: From Microscopic to Majestic” published by Research Floor, with ISBN: 9788198557209 in April 2025

Papers Published by Faculty

- Dr. Vidya Jayaram published a paper “ The Effect of Diet and Nutrition on Oral Health: A Preventive Approach” in the journal The Bioscan with ISSN: 0973-7049(P) in March 2025

Book chapter published by Faculty

- Dr. Vidya Jayaram published a book chapter “Ornamental Fish farming- Trends & Opportunities” in the book “ Modern Approaches in Agriculture and Allied Disciplines” published by RL International Publication with ISBN: 978-93-49493-06-3 in May 2025.
- Dr. Vidya Jayaram published a book chapter “Water Quality Management in Fish Ponds” in the book “ Modern Approaches in Agriculture and Allied Disciplines” published by RL International Publication with ISBN: 978-93-49493-06-3 in May 2025.
- Dr. Vidya Jayaram published a Book Chapter on “Insect Biochemistry & Physiology in Pest Control” with 978-93-49493-06-3 in 2025.
- Ms. Sravanthi published a Book chapter on “ Biodiversity and Conservation: An Evolutionary Perspective” in a book entitled “ Evolutionary thought:Evolution, Biodiversity and Conservation” with ISBN No. 978-81-995873-0-4 published by VYD Publishers.

Patent Publications by Faculty

- Dr. Jyothi Rani published a patent on “SERICULTURE FARMING DEVICE” with Design number 483911-001 published in Patent office Journal number 06/2026 and Journal date is 06/02/2026 page 1 - (17956).
- Dr. Vidya Jayaram published a Patent on “Eco-Friendly Wastewater Treatment Processes for Enhanced Removal of Toxic Contaminants in 2025

4.PAPERS PRESENTED; PUBLISHED / BOOK /CHAPTERS PUBLISHED BY STUDENTS

- Ms. Bellamkonda Tejaswinin Reddy Presented a paper under the guidance of supervisor Dr. Jyothi Rani on “A study on Gestational Diabetes Mellitus and the use of Artificial Intelligence and its Management” in a Two Day National Conference on “The Future of Life Sciences: Integrating computational Intelligence and Biological Research “- FLSICIBR-2026 conducted on 5 th & 6th March, 2026.

- Ms. Ganta Keerthi Reddy Presented a paper under the guidance of supervisor Dr. Jyothi Rani on “Clinical and computational study of PCOD and PCOS: symptom, causes and AI assisted Management” in a Two Day National conference on “The Future of Life Sciences: Integrating computational Intelligence and Biological Research “-FLSICIBR-2026 conducted on 5 th & 6th March, 2026.
- Dosapati Pallavi participated in oral presentations on Bioprospecting Traditional Indian Fermented Foods for Novel Probiotic Strains Through Functional and Molecular Characterization at the International Conference on Integrative Biotechnology for Global Impact- 2026(IBGI-2026) organised by the Department of Biotechnology, St Francis College for Women.
- M. Kavya participated in oral presentation on Green Synthesis and Therapeutic Evaluation of Sechium edule Peel Mediated Silver and Zinc Nanoparticles at the International Conference on Integrative Biotechnology for Global Impact- 2026(IBGI-2026) organised by the Department of Biotechnology, St Francis College for Women.
- Dominic Rachel participated in oral presentation on Biosynthesis and Therapeutic Evaluation Of Trichosanthes Dioica Peel-Mediated Silver And Zinc Nanoparticles at the International Conference on Integrative Biotechnology for Global Impact- 2026(IBGI-2026) organised by the Department of Biotechnology, St Francis College for Women.
- Lakhya Sharma participated in an oral presentation on Integrated analysis of physico-chemical and biological parameters in water quality assessment of Musi River at the International Conference on Integrative Biotechnology for Global Impact- 2026(IBGI-2026) organised by the Department of Biotechnology, St Francis College for Women.

5. GUEST LECTURES ORGANISED

- A Guest lecture on “Neurons & Neuroglial Cells - An overview ” by Dr. S. Padmaja, Associate Professor Department of Zoology, University college of Science, Osmania University, Hyderabad was organized for 66 students of B.Sc, 2nd year students of BZC, BTZC & ANZC on 16th July, 2025.
- A Guest lecture on “Parasitic Adaptations in Helminthes” by Dr. C. Jyothsna, Associate Professor Department of Zoology, Nagarjuna Government College, Nalgonda was

organized for 44 students of B.Sc, 1st year students of BZC, BTZC & ANZC on 26th July, 2025.

- The Department of Zoology organized a guest lecture titled “Hormonal Harmony: Understanding Women's Endocrine Health and Quality of Life” for 80 students of BSc III A and III N. The guest speaker, Dr. K Neelaveni, M.D., D.M, Professor and Head, Department of Endocrinology, Osmania Medical College, Osmania General Hospital, Hyderabad.

6. INDUSTRY -ACADEMIA CONNECT INITIATIVES

A. Any MOUs signed by the Department yes

Institutional Collaboration: 1

- The Department of Zoology established a three-year Memorandum of Understanding (**MoU**) **with the Genome Foundation**, a recognized Scientific and Industrial Research Organization, on 6 January 2026. This partnership aims to promote academic collaboration, knowledge exchange, and technical skill enhancement, fostering mutual growth and innovation.

Institutional Collaboration: 2

- On 23 March 2026, the Department of Zoology entered into a three-year Memorandum of Understanding (**MoU**) **with NEERADI Biosciences Pvt. Ltd.**, a Research driven biotechnology organization. This partnership is designed to bridge academic learning with industry applications, offering students hands on research exposure and expert mentorship to enhance their professional readiness.

B.Guest talk by Industry experts nil

7. FACULTY ACHIEVEMENTS (PhD., Research Grants, Minor/Major research, Awards....)

Faculty members as Resource persons

- Dr Jyothi Rani was Invited as External Expert Member of Colloquium for B. Sujatha of Zoology Department, Bharathiya Engineering Science & Technology Innovation University, Andhra Pradesh held on 5 th July 2025.

- Dr Jyothi Rani was Invited as State level Evaluator for JIGNASA-STUDENT STUDY PROJECTS - 2025-26, conducted by Commissionerate of Collegiate Education Telangana state.

8. STUDENT ACHIEVEMENTS (WINNER DETAILS)

- Ms. Agnes Mathew won Proficiency prize for securing highest marks in academics.
- Syeda Nabeela Unissa, B.Sc Iyear student of BZC won 2nd prize in Natale 2025 Flashmob competition organised by St. Francis college for women on 12th Dec, 2025
- Syeda Nabeela Unissa, B.Sc Iyear student of BZC won 2nd prize in Independence Day Flashmob competition organised by St. Francis college for women on 15th August, 2025.
- Ms. Lekkepogu Sowmya, & Ms. Ann Maria won Consolation prize in poster presentation on 7th February 2026, in DBT-sponsored one-day seminar “Conserving Health: Heritage and Habitat for Sustenance of Plants and Animals”organised by the Departments of Zoology and Botany.
- Ms. Lekkepogu Sowmya, K. Sharanya, Shriya, B. Varunika, Pujari Sunanda of Class B.Sc II A BZC attended Workshop on “DNA Finger Printing” organised by GenomeFoundation from 18th to 20th Dec, 2025
- Jasper Cynthia and Syeda Zahra Fatima won 3rd prize in poster presentation on 7 February 2026, in DBT-sponsored one-day seminar “Conserving Health: Heritage and Habitat for Sustenance of Plants and Animals”organised by the Departments of Zoology and Botany.
- B. Neharika ,Akshita kadian ,Syeda Zahra Fatima won 3rd prize in Yuvaflare Intercollegiate competitions organized by Krida club and Shashtr Club and Prakrithi Club of St. Francis College, Hyderabad on 10/01/2026
- Dominic Rachel participated in various intercollegiate basketball tournaments, including competitions organized by Spectrum Club, Loyola College, St. Joseph’s Degree and PG College (Kingkoti), Osmania University, BITS Pilani, and Face Club. She secured multiple positions such as 1st, 2nd, and 3rd places in events like the Ballaiha Tournament, city leagues, Natale flashmob competition, and patriotic group dance competitions. She also served as the General Secretary and Sponsorship Head of the Spectrum Club core committee from 2024 to 2026.

- C. Susannah Rachel Solomon participated in GLEE events in 2023 and 2025, securing 2nd and 1st places respectively. She also took part in the Chitranjan Photography Exhibition and events organized by the Department of Mass Communication and Journalism at St. Francis College for Women, Hyderabad, where she achieved 3rd place.
- P. Sree Nidhi participated in GLEE 2024 and a cultural walk, securing consolation and 3rd place respectively. She served as the Head of Creative and Designing in the Prakriti Club core committee (2024–2025) and was actively involved in Spectrum Club, Harivillu Club (Department of Telugu), and the Department of Environmental Science at St. Francis College for Women.
- Dosapati Pallavi participated in GLEE events in 2023 and 2025, securing 2nd and 1st places respectively. She was a member of the Spectrum Science Club core committee (2024–2025) at St. Francis College for Women and served as the Creative Head.
- Amreen participated in GLEE 2025 organized by the Department of Zoology at St. Francis College for Women, Hyderabad, where she secured 3rd place. She also took part in the Natale flashmob competition conducted by Face Club and achieved 2nd place.
- M. Kavya participated in GLEE 2024 organized by the Department of Biotechnology at St. Francis College for Women and secured a consolation prize while representing the Spectrum Club.
- Manisha Shringari participated in the Republic Day Camp 2025 and the Youth Exchange Programme in Vietnam (2025), organized by DGNCC and the Ho Chi Minh Communist Youth Union Central Committee. She was a DG Medallion Awardee and represented at both national and international levels.
- Lakhya Sharma served as the Assistant Sponsorship Head of the Spectrum Science Club core committee (2024–2025) at St. Francis College for Women, Hyderabad.
- Vemulapudi Hepsiba participated in Independence Day competitions and Natale flashmob events organized by Spectrum Club and Face Club. She secured 3rd and 2nd places in intra-collegiate and inter-club competitions during her 1st and 3rd years.
- Pratiksha Shenoy, an NSS volunteer, was recognized as the Best Volunteer in her 3rd year.

9. SOCIAL OUTREACH INITIATIVES

- The Department of Zoology organized a program in the month of July, focusing on the theme of Resilience & as the value of the month. As part of the program, students prepared engaging displays for the college and department notice boards. These displays provided visual representations and informative content on what resilience means and its importance in overcoming life & challenges. The program culminated in a special assembly held on 24th July, 2025. This assembly featured a short speech and a choreographic performance aimed at illustrating practical ways to develop resilience and navigate the various trials and tribulations of life.
- Dr. Jyothi Rani, HoD, Assistant Professor, Department of Zoology along with 9 students of Class BSc. II A BZC visited Nightingales Home for Girls – A Residential Home for Girls. Located near Police station, Government High School Campus, Musheerabad, Hyderabad. Home consists of 70 children of the age group from 3 years to 18 years (from kindergarten to High school). These children were picked from the streets and were taken care of by the NGO. Students mobilised Rs 6000/- and donated stationary items, fruits and snacks to all the inmates, conducted games and gave prizes for the winners.
- Dr. Vidya Jayaram along with 48 students of B.Sc III A BtZC visited Ashray Akruti, srinagar colony road Indian bank Hyderabad. Students mobilised Rs 5700/- and donated stationary items, fruits and snacks and distributed to 175 inmates, conducted games and gave prizes for the winners. This visit helped the students understand the challenges faced by the children with hearing and speech impairments. They left the institute with a sense of gratitude and renewed commitment towards the special needs of the society.
- Ms.S.Sravanthi, Dr. Y.Lakshmi Madhuri & Dr.Priyanka along with 35 students of B.Sc IA BZC and BtZC visited St. Jude India Child Care Center, Banjarahills, Hyderabad, a home away from home for kids with cancer, providing accommodation, meals, transport, education, and holistic support. Students mobilized Rs. 6550/- purchased grocery, food

items and stationery for 25 children. Overall, they felt that the visit was impactful and motivated them to participate in more social outreach programmes in the future.

10. FIELD VISITS ORGANISED

- The Department of Zoology organized an industrial visit for the B.Sc. 2nd-year Zoology students to the ICFRE – Institute of Forest Biodiversity, Dullapally Village, Kompally, on 10th September 2025. 66 students accompanied by 2 faculty Dr. Vidya Jayaram and Dr. Jyothi Rani.
- The Department of Zoology at SEC organized an insightful industrial visit for its B.Sc 2nd-year students to the Directorate of Poultry Research in Rajendranagar, Hyderabad, on July 25, 2025. The purpose of the visit was to provide students with practical exposure and enhance their understanding of the poultry industry. Around 25 students along with 2 teaching faculty Dr. A. Padmini and Dr. Jyothi Rani visited ICAR-DPR.
- The Department of Zoology had organized A Field Visit on 6th February 2026. The event was organized for B.Sc IIA & IIN to Institute of Genetics and Hospital for Genetic Diseases located at Ameerpet, Begumpet, Hyderabad. Around 50 students along with Dr. Jyothi Rani and Dr. A. Padmini visited the Institute.

11. STUDENT CLUB ACTIVITIES HOSTED BY DEPARTMENT STUDENTS (IF RELEVANT)

- Live demonstrations and 3D models displayed in the GLEE event organised by Spectrum club, 20 students of B.Sc III A & N and II A & N participated in the event on 20th November, 2025
- Ski trail - An open Day of zoology museum for Intermediate students was conducted by Spectrum club and around 200 outside students participated in the event on 4th December, 2025.

12. Student Exchange programmes

nil

13. Faculty Members as Resource persons.

- Dr Jyothi Rani was Invited as External Expert Member of Colloquium for B. Sujatha of

Zoology Department, Bharathiya Engineering Science & Technology Innovation
University, Andhra Pradesh held on 5 th July 2025.

- Dr Jyothi Rani was Invited as State level Evaluator for JIGNASA-STUDENT STUDY
PROJECTS - 2025-26, conducted by Commissionerate of Collegiate Education
Telangana state.

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| 14. FDP Conducted- Date, Faculty -in charge, Resource person, Topic | nil |
| 15. FIP Conducted Date, Faculty- in charge, Resource person, Topic | nil |
| 16. FEP Conducted Date, Faculty- in charge, Resource person, Topic | nil |
| 17. Capacity building program conducted by the department | nil |
| 16.Any other | |



Dr. Jyothi Rani, HoD
Department of Zoology