

## Department of Zoology

### Activities

Department of Zoology is one of the oldest departments of the college. This Department strives to promote all round development of the students through various academic and co- curricular activities. In this regard, the department has been facilitated with financial support under PMUSHA 2.0 scheme by the college. The following activities have been conducted under PMUSHA 2.0 scheme to enhance the learning ability of the students, generate awareness and make them skilled:

**A. Guest Lectures:** Apart from the regular teaching, subject experts from different fields of Life Sciences were invited to communicate their expertise to the PG students of the department through lectures as well as by hands-on activities. These lectures provided information and helped them become aware of cutting edge technologies and pioneer fields. Following experts were invited to deliver lectures:

- 1. Dr. Shubha Diwan:** Dr. Shubha Diwan, Assistant Professor, Department of Biotechnology, St. Thomas College, Bhilai delivered her lecture on **“How to prepare for NET and SET Examination”** on 13.01.2024. She had very beautifully explained the procedures for preparation of competitive examinations.
- 2. Dr. Arti Parganiha:** A invited talk on topic **”Applications of Biostatistics in Biology and Analysis of Variance”** was delivered on 1.02.2024 by Dr. Arti Parganiha, Professor, School of Life sciences, Pt. Ravishankar Shukla University, Raipur. She explained the various terminologies and factors used in biostatistics. She had also provided them with knowledge to use of raw data or numerical information in statistical analysis to make results more significant. She had nicely satisfied the student’s queries in the doubt clearing session.
- 3. Dr. Madhulika Roy:** A special lecture on **“Excretory System of Vertebrates”** was given by Dr. Madhulika Roy, HOD, department of Zoology, Govt. Daanveer Tularam PG

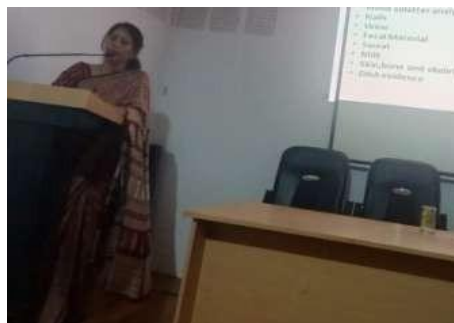


College, Utai, Durg on 6.02.2024. She had given a very elaborated and informative lecture. On the student's demand, she also explained the mechanism of muscle contraction, conduction of nerve impulses, reproductive hormones and their actions very nicely.



4. **Dr. Shikha Shrivastava:** Dr. Shikha Shrivastava, Assistant Professor, Department of Zoology, Govt. College, Vaishalinagar, Bhilai was invited to deliver her lectures on Fish culture and Fertilization on 16.02.2024 and 17.02.2024 respectively. In her both the lectures, she has explained the topic very well.

5. **Dr. Shikha Tiwari:** Dr. Shikha Tiwari, Joint Director, Physics and Ballistic Division, State Forensic laboratory, Raipur delivered her invited lecture on “**Career opportunities in Forensic science**” on 17.02.2024. She informed the students about the importance of forensic science in crime scene mechanism of functioning of State Forensic Laboratory in a very simple manner.



6. **Dr. Apolina Ekka:** Dr. Apolina Ekka, Joint Director, Biology and DNA Division, State Forensic laboratory, Raipur in her lecture on “**Recent Trends in Forensic Biology and DNA**” on 17.02.2024, very nicely explained the role of DNA isolation and identification in the identification of biological organisms in any crime scene. She also informed about the different units of forensic science and their applications.



7. **Dr. H.K. Sharma:** Dr. H.K. Sharma, Ex. Director, Govt. Fish Farm, Salud, Durg was delivered his lecture on “**Fish Culture, Farm Management and Marketing techniques for fishes**” on 12th March 2024. He had beautifully explained and demonstrated the cage culture technique of fish farming, induced breeding, management of hatchery, rearing and

marketing of fishes through eye catching power point presentations and field videos. He also informed the students about different schemes and benefits/subsidies provided by the Government for establishing a small scale industry on fish farming.



**B. Extension Activities:** The following extension activities has been organized by the department:

- 1. Health awareness Program:** A one-day Health Awareness Program was organized by faculty members and PG students on 24.01.2024 at Govt. Middle School, Ruabandha, Bhilai. In this program, a blood test camp was organized in association with Shashwat Pathology Lab, Nehru Nagar, Bhilai, for the student of class 7<sup>th</sup> and 8<sup>th</sup>. to determine their blood groups. Blood group tests were done by the expert pathology lab technicians.



- 2. Peer Teaching:** The students of M.Sc. Final Priyadeep and Nagina took classes of school children and informed them about “**Importance of Cleanliness and personal hygiene**”. They also informed girls about the importance of balanced diet and cleanliness during menstruation.



**3. Nukkad Natak:** Message against different current social evils like Superstitions, Illiteracy and Intoxication were powerfully delivered by the students of M.Sc. previous in Government High School, Ruabandha, Bhilai on 24.01.2024 through a street play (nukkad natak). The powerful play on these topics by different groups of PG students intellectually stimulated the school children and made it an eye opening event.



**C. Career Counseling:** The students of the Department have always been facilitated with the latest information related to the subject through regular teaching classes and invited lectures. Apart from the dissemination of the subject knowledge, following counseling sessions and specific guidance classes were organized by the department for the PG students:

### **1. Career Guidance Lecture**

**a. Dr. M. L. Naik:** A career guidance lecture was given by Dr. M. L., Member, Chhattisgarh State Biodiversity Board, Chhattisgarh on 9.02.2024. He had informed the students about the value, status and importance of the wetlands of the state and then suggested them different aspects of wetlands where the students can work and get monetary benefit along with their contribution in wetland conservation. He also informed them about different projects and schemes run by the state Government.





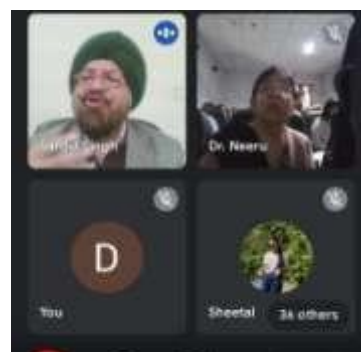
**b. Dr. Rajendra Prasad Mishra:** Dr.

Rajendra Prasad Mishra, Deputy Director and Regional Head, Central India, Wildlife Trust of India, made the PG students informed about the Scheduled status of wildlife. He delivered his lecture through beautiful pictures and videos of wildlife starting with heart touching



Jungle Song. He opened the versatile fields of forest in which one can contribute and get benefitted.

**c. Dr. S.S. Sandhu:** Dr. S.S. Sandhu, Prof., department of Life Sciences, Rani Durgavati University, Jabalpur, M.P. delivered an online lecture on 20.01.2024. He opened the various dimensions of molecular biology and insect genetics through glimpses of very useful work on molecular biology of insects.



**2. Organization of Coaching Classes:** The Department of zoology organized a free coaching class for NET and SET examinations for PG students from 11.01.2024 to 30.01.2024. Very efficient faculties from the college and outside of the college took classes and prepared them to perform their best in the examinations.



**D. Organisation of National Conference:** A National Conference was organized by Department of zoology on “Exploration and Restoration of Wetlands” on 5<sup>th</sup> & 6<sup>th</sup> October 2023. More than 200 participants participated in this conference from Madhya Pradesh, Jharkhand, Odisha, Maharastra, Gujrat, Chhattisgarh, Tamil Nadu, Kerela and numerous Pan-Indian locations. After a vast discussion among the wetland experts over the country, some recommendations were submitted to the Chhattisgarh State Wetland Authority.



**E. Publication of Books:** Two edited books were published by the Department. They are as follows:

1. Proceedings of National Conference on Recent Advances in Exploration and Restoration of Wetlands. Editors: Dr. Alka Mishra and Dr. Sanju Sinha. 2023. Ideal International E-Publication Pvt. Ltd.
2. A chapter Book on Advanced Techniques in Bioology. Editors: Dr. Sanju Sinha and Dr. Alka mishra, 2024.



**F. Educational Tour:** Department of Zoology has been continuously trying to make the students aware of their environment, importance of biodiversity and the conservation practices of biodiversity. The students were taught about the environment and biodiversity through field visits, organized annually by the Department. A field tour was organized by the department of Zoology from 01.03.2024 to 05.03. 2024. 49 students of M.Sc. Previous and \Final year along with 2 teachers and 4 Research scholars visited Vishakhapattanam. The students visited the sea shore for collection and identification of marine fauna. They also visited fishing yard to learn about fishing mechanism and processing of marine fishes. They also visited Ramanujan Film Studio and Tribal Art Museum to learn about the regional culture and technology. In the Borra cave, students were informed about the subterranean life forms with real-time experience.

