

Shri Shivaji Education Society Amravati's
Shri Shivaji Science And Arts College, Chikhli
Department of Zoology
Annual Report 2023-24

Department of Zoology conducted curricular, co-curricular and extra-curricular activities during the session 2023-24. A brief Report is as follows_

International Tiger Day

International Tiger Day celebrated on 29th July 2023. Day was celebrated to showing students different videos of tiger. Video of Bloodline of Tadoba tigers was well appreciated. Chairperson of the program was Officiating Principal Dr. M. T. Nikam.



International Ozone Day

The world ozone Day was organized in the Department of Zoology on 16th September. The Department of Zoology organized a poster competition and a Guest Lecture to celebrate this day. Total 56 students participated in competition. The theme was "Ozone-Protection Layer". Inauguration of poster competition conducted by the hands of Prof. Dr. Gajanan Jadhav Principal, Shri Shivaji College, Motala. He specially appreciated the posters made by the

students. On this occasion Mrs. Jadhav Madam Principal, Shri Shivaji Junior College, Buldhana was present. Prof. Dr. Santosh Kumbhare and Dr. Avinash Kadam acted as the judges of the poster competition. Winners are awarded with prizes & certificates.



Sr. No.	Prize	Name	Class	Poster No.
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1	Ist	Nikita B. Nikhate	BSc-I	124
2	IInd	Saheli Santosh Gondhane	BSc-I	107
3		Arti Prakash More	BSc-II	201
4	IIIrd	Sakshi Wagh	BSc-I	115
5		Snehal Nandkishor Pawar	BSc-II	122
6	Consolation	Bharati Dnyaneshwar Sapkal	BSc-I	113

In the afternoon session, a Guest Lecture was organized Dr. Yogesh Wayal, Assistant Prof. in Chemistry, Burungale College, Shegaon was the Resource Person while interacting with the students, gave a detailed and informative discussion on the importance of ozone layer, the reasons for its depletion and the care to be taken to keep this layer safe. Speaking from the presidential chair, Dr. Nikam appealed to the students to adopt a nature-friendly lifestyle.

Speaking in her introduction, the organizing secretary of this program Dr. Vijayshree Hemke said that there is a need to create awareness about the ozone layer and she introduced the key speaker.

Study Tour at Koradi

Under MoU with Department of Fishery (Technical) Buldana, A study tour organized at Govt. Fish Seedling Center at Koradi on 18/08/2023. During this visit student studied various types of ponds such as Nursery pond, Hatchery Unit Fish Seedling Center and different fishes. Students also knew about Artificial Breeding process in Fishes. Dr. Gade and Dr. Hemke were present along with students.

Wildlife Week

Department of Zoology celebrates Wildlife Week every year. Department of Zoology has a MoU with Sipna ASC, College, Chikhaldara. On the occasion of Wildlife Week MoU activity conducted with a visit to Melghat Tiger Reserve and a guest lecture on "All about honeybees" by Dr. Vijay Mangle At Sipna ASC, College, Chikhaldara on 07/10/2023. A forest walk also organized at Chikhaldara forest. During walk student observed butterflies, birds, ants, insects of MTR area. Dr. V.M. Hemke and Dr. R. B. Gade guided students while forest walking.

Celebration of Bird Week

On this occasion of Bird week, Department of Zoology conducted field activity of bird observations. We formed small groups and observed the birds in the area. At this time, care was taken not to cause any injury or disturbance to the birds and their nests. A bird observation study was conducted through binoculars and cameras. A total of 39 bird species have been recorded in the college premises. During in house activity a Rangoli competition organized and theme was “Local Birds”. Total 26 students participated in competition. Winners were awarded with prizes and certificate.





World Sparrow Day

World Sparrow Day (20th March) was organized on 20th March 2024 at Department of Zoology here. A district level Hands-on workshop-Nest Making Best from waste was organized. A famous naturalist Sanjay Gurav was the Trainer for the workshop. Workshop was organized in collaboration with Department of Social Forestry. Principal Prof. M.T. Nikam was the chairperson, Dr. V. M. Hemke was the organizing secretary, RFO Shri Pramod Kumre was inaugurated the workshop and Dr. R. B. Gade expressed vote of thanks. Trainer Sanjay Gurav explained many innovative ideas for making nets and bird feeder to students. Total 78 students participated in the workshop.



Research Publications:

Sr. No.	Research Paper published/presented
Dr. M. T. Nikam	Published paper: Diversity of Fresh water Fishes from the Khadakpurna Reservoir of Maharashtra, India, <i>Acta Scientific Microbiology</i> - April 2023
	Published paper: Study on Physicochemical parameters of Khadakpurna Reservoir Deulgaon Mahi, Dist. Buldhana MS. India- <i>Global online Electronic International Interdisciplinary Research Journal</i> March 2024
Dr. V. M. Hemke	Presented paper: Study of pollinators on cucumber (<i>Cucumis sativus</i> L.) at District Nanded, Maharashtra, India. 08/766
	Published paper: Checklist of Avifaunal Diversity at Shivaji College, Chikhli Dist: Buldhana. MS.
	Published paper: Insect pollinator species on Sesame (<i>Sesamum indicum</i> L) at Nanded District (MS)

Research Activities

Research Center in Zoology	Research Scholors Ongoing PhD		
	Dr. Nikam	Dr. Hemke	Total
	04	02	06

Extension Activities:

- 1 Department of Zoology conducted, “Blood Group Detection” of the college students.
- 2 Zoology Students regularly check the Haemoglobin percentage of college students as well as completed different projects related to Hb% among pregnant women in society.
- 3 Department of Zoology conducted, “Blood Pressure Measurement” of the college staff and Completed different projects related to “BP Measurement” of people in society.

Best Practices

1 Study of Avian Fauna with eBird App

Aim: To make students aware to understand global e-platform eBird App and motivate them to start observed and upload checklist of birds of Chikhli Region on eBird.

The Practice: During field study Zoology students made aware about e Bird App. This app is worldwide use for studying bird. At first stage, students downloaded eBird Mobile App from Play store b) Set there preferences c) Downloaded and installed packs d) Started a checklist e) Selected a location f) Reviewed, Submitted and Shared Students submitted checklist of birds which are commonly found in premises.

Evidence of success: Zoology staff and students regularly enter the sightings on eBird App. Data available on eBird database.

Teachers Activities

Dr. Meena T. Nikam

- Took charge as an **Officiating Principal** of this college.
- Acted as a University Subject Expert of the Screening Cum Evaluation Committee for the placement of Dr. Shimbre at Shri Vyankatesh Mahavidyalay, D. Raja.

Dr. Vijayshree M. Hemke

- **Dr. V.M. Hemke granted UK Patent on Interactive Enrichment Feeder” No. No. 6358468, Dated 18 April 2024.**
- **Dr. V.M. Hemke granted Indian Patent on Artificial Intelligence-Powered Precision Weeder. No. 413497-001, Dated 22 May 2024.**
- **Dr. V.M. Hemke was invited as a Plenary Speaker for National Conference** at Shri Shivaji Vidya Prasarak Sanstha's L.K. Dr. P. R. Ghogrey Science College, Dhule (NAAC 4th cycle A+). National Conference was organized on 21 & 22 October 2023 theme was “Discovery of Flight”. Dr. V.M. Hemke delivered her invited talk on “Beauty of Avian Beak” on 21 Oct 2023.
- Working as a Criterion Coordinator for “Criterion-I Curricular Aspects” of NAAC.
- Worked as a Coordinator of National Institutional Ranking Framework (NIRF-2024).
- Working as a Coordinator for Alumni Association.
- Working as a Coordinator for IIRS-ISRO Outreach Program.
- Working as a Nodal Coordinator for Virtual Lab, NCID-147.
- Working as a Single Point of Contact (SPOC) for SWAYAM-Local Chapter, LCID-5455.
- Participated, Presented a paper in a National Conference at Sambhajirao Kendre Mvy, Jalkot on 12 March 2024.
- Published newspaper articles on “Environment and Wildlife Awareness” in reputed Journal Shivasanstha and newspapers like Mahabhumi.

Dr. M. T. Nikam
Head
Department of Zoology