



Shri Shivaji Education Society Amravati's

Shri Shivaji Science And Arts College, Chikhli

Department of Zoology

Annual Report 2022-23

Department of Zoology regularly conducted curricular, co-curricular and extra-curricular activities during the session 2022-23. A brief Report is as follows_

International Ozone Day

The world ozone Day was organized in the Department of Zoology on 16th September. The Department of Zoology organized Mulberry Plantation Program in the college campus on the occasion of World Ozone Day. Mr. Dipak Pacharane-Naturalist was the chief guest. Zoology Department conducted Add-on Course in Sericulture; Mulberry Garden is required for mulberry leaves. So this is the extension of mulberry garden of the college.



Study Tour at Koradi

Under MoU with Department of Fishery (Technical) Buldana, A study tour organized at Govt. Fish Seedling Center at Koradi on 30/09/2022. 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. Total participants were 16 and organizer was Dr. M. T. Nikam HoD Department of Zoology.



Wildlife Week

Department of Zoology celebrates Wildlife Week every year. On the occasion of Wildlife Week-2023 a Wildlife Rangoli competition was organized. This competition was inaugurated by the hands of Mrs. Shalini Katole in presence of Dr. O. S. Deshmukh, Principal of the college. Students draw Rangoli of Wildlife such as Tiger, Leopard, Deer, Panda, Penguin, Cobra, Tortoise, Elephant & birds like Eagle & Hawk. Students threw light on role of Wildlife in food chain & importance of conservation of Wildlife through Rangoli. Mr. Mukund Kolte & Dr. Sonali Gaikwad acted as a judges for the competition. Dr. M. T. Nikam HOD felicitated all participants & congratulated the winners of the competition.

Department of Zoology organized a workshop on Wildlife Protection Act & its

importance on the occasion of Wildlife Week The programme was chaired by The hon'ble Principal of the College Dr. O. S. Deshmukh. He shared his experiences of Jungle safari in presidential speech. The resource person Mr. Sandeep Gaware, Assistant Conservator of forest, Mehkar, threw light on protection of wildlife as per the wildlife protection act. He also explained about punishment and fine against the crime related to hunting and smuggling of wildlife life. Students also watched a documentary film on nature walk. Dr. M. T. Nikam told about the aim of organization of workshop in her introductory Speech. IQAC coordinator Dr. Vanita Pochhi appealed students to use the knowledge gained from this workshop. Dr. R. B. Gade, Assistant Professor expressed vote of thanks.

Celebration of Bird Week

Bird week was celebrated in the college on the occasion of Maruti Chitampalli's birthday on 5th November and famous ornithologist Late Salim Ali's birthday on 12th November. On this occasion, the students of the Department of Zoology 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. A bird observation study was conducted through binoculars and cameras. A total of 33 bird species have been recorded in the college premises.



Workshop on eBird

The workshop was organized on 19 Nov 2022 under a MoU between the Department of Zoology of Sri Shivaji College and Wildlife & Environment Conservation Society(WECS), a nature conservation organization in Amravati.

e-Bird App is an App that is used globally and in this, experts studying birds, students, amateur bird watchers record the number and habits of bird species in their respective areas, through which it is possible to study different birds around the world from one place. Trainer for workshop was Dr. Jayant Wadatkar-President of Maharashtra Pakshimitra. He gave a detailed guidance to the students about e-Bird App in the first session and in the second session of the workshop, he demonstrated how to record the birds in the college premises on the e-Bird App. Dr. V. M. Hemke was the Convenor for the Workshop. Dr. Omraj Deshmukh, while speaking from the chair, appealed to the students to share their records with e-Bird App as many types of birds are found in Chikhli area.



Workshop on Health Awareness

Theme-Use of Magnet Therapy to control the ailments in human body.

A workshop on Magnetic Health was organized on 1st Feb. 2023 in the department of Zoology. The resource person was Dr. D. U. Sontakke. Shri Gurukrupa Magnetic Health Centre, Nagpur. The Programme was chaired by Dr. D. B. Bobade HoD of Electronics Department. Introductory speech was delivered Dr. M. T. Nikam HOD of Zoology Department. Resource person Dr. Sontakke explained in detail use of magnet therapy for immunity Calcium absorptions & mental health. Staff members & Students Participated in this workshop Dr. R. B. Gade expressed vote for thanks.

NAAC Peer Team Visit:

NAAC Peer Team visited to Department of Zoology on 23rd Feb 2023. They asked about the Research Students of the Department. They observed Sericulture Unit explained by Dr. V. M. Hemke and appreciated the cocoon production. The presentation of the departmental activities was shown through powerpoint presentation by Dr. M. T. Nikam HoD. The peer team discussed with staff members and appreciated departmental activities. The team also visited mulberry garden, Apiculture Unit, Guppy Culture and Wormicompost Unit and appreciated it.

World Sparrow Day

World Sparrow Day (20th March) was organized on 21th March 2023 at Department of Zoology here. Online Sparrow Counting in Buldhana District was done for the first time through public participation during 16to 21/03/2023. It was joint initiative of Department of Zoology, Shri Shivaji Science And Arts College, Chikhli, Social Forestry Department,, Chikhli. Buldhana Nisargakatta and Maharashtra Pakshimitra. Dr. V. M. Hemke was the Coordinator for the survey. No. of Participants were 834. 10 simple questions were asked in this online survey. A program organized in Zoology Department of the college. The report of this survey was released by Hon. Principal Dr. Omraj Deshmukh.

On this occasion, Mr. Divare of Social Forestry Department was present as the Chief Guest. Head of Department of Chemistry Dr. Santosh Kumbhare, Head of Department of Computer Science Dr. Avinash Kadam, Prof. Dr. Meena Nikam, Head of Department of Zoology and Dr. Ganesh Thorat, Dr. Vijayshree Hemke was present on the dais.

This survey showed that the awareness of this tiny bird conservation in rural areas is high. Principal Dr. Omraj Deshmukh said that many issues related to sparrows in Buldhana district have been shed light from this first sparrow census and it is necessary to conduct similar sparrow census every year.



Inauguration of Falcon Nature Club



In the same program of The World Sparrow Day and World Sparrow Day.

Falcon Nature Club was inaugurated by the hands of hon'ble Principal Dr. Omraj Deshmukh. This nature club will functions with the aim to conserve our nature through our thoughts and deeds. Dr. M.T. Nikam is Mentor, Dr. V. M. Hemke is Coordinator, Dr. R. B. Gade is Treasurer, seven students, Sagar Patil-Secretary, Shubham Ingale, Rahul Parskar, Gauri Bholane, Nivedi Jaybhay, Raj Deshmukh, Poonam Thutte and Prajka Aarakh are the representative members and all Zoology students are the members of the club for this year. Any interested student of any faculty can be the member of this club.

Add-on Course in Sericulture

To make students aware to understand overall aspects of Sericulture and motivate them to start Sericulture in their Farm. The Department of Zoology organized an Add-on course in Sericulture. During 01/03/2023 to 15/04/2023. During course students made aware about Cultivation of Mulberry Garden, Silkworm rearing, Cocoon marketing. 69 students successfully completed the course and got Course Completion Certificates.



A project visit was organized on 1st April 2023 at Govt. approved Chawki Center, Buldhana. Sericulture Experts Mr. Jagdishchandra and Mrs. Meeratai Gulve guided students regarding what

care should be taken throughout process of cocoon formation. The students observed various stages of larval instars of *Bombyx mori*. Total 27 students along with 03 faculties of Zoology Department were visited to project.

Research Publications:

Sr. No.	Research Paper published/presented	Chapter in Book
Dr. M. T. Nikam	Published paper: “Studies on Diversity related to architectural Biology of vertebral column in <i>Channa orientalis</i> ” in a journal “Shivaji Interdisciplinary Research Journal” Aug-2022 ISBN No.-978-93-83587-52-0	“Impact of Covid-19 pandemic on Social Life and Mental Health”-Book entitled “Pandemic Effects on Health, Society, Environment and Economy”. Oct 2022 Redshine Publication ISBN: 978-93-95456-46-3.
Dr. V. M. Hemke	Presented paper: The Insect Pollinators Species on Safflower crop (<i>Carthamus tinctorius L.</i>) at Latur District of Maharashtra, India in a National Conference at D. P. Bhosale College, Koregaon Dist- Satara Maharashtra on 9 November, 2022	A chapter in a book entitled as “Sweet Revolution: an ambitious initiative of the Government of India for promoting apiculture” published in a book-“Interdisciplinary Approaches and strategies for Sustainable Development. April-2023 ISBN: 978-93-5813-132-1.
	Presented & Published paper: A Study on Breeding Behaviour of Ashy Prinia (<i>Prinia socialis</i>) at Chikhli Region, Buldhana. MS in a International Conference at Poona College, Pune on 6 th May 2023.	
	Published paper: present status and impact of insecticide on honey bees in India: a review in International Journal of Researches In Biosciences, Agriculture And Technology.	

	<p>Published paper: Comparative <i>in silico</i> study of Phospholipase A2 from venom of four Major Indian Snake Species. In a Research Paper in a journal Shivaji Interdisciplinary Research Journal.</p>	

Research Activities

Research Center in Zoology	Research Scholars Ongoing PhD
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Name of student	Class	Competition	Rank	Venue	Date
Ms. Snehal N. Pawar	BSc-I	Wildlife Rangoli Competition		Deptt. of Zoology	04/10/2022
Ms. Heena Khan	BSc-III	Wildlife Rangoli Competition	II	Deptt. of Zoology	04/10/2022
Mr. Harshal Suradkar	BSc-I	Wildlife Rangoli Competition	III	Deptt. of Zoology	04/10/2022
Ms. Renuka Tidke	BSc-I	Wildlife Rangoli Competition	III	Deptt. of Zoology	04/10/2022

Mr. Pawan Kute	BSc-I	Wildlife Rangoli Competition	Consolation	Deptt. of Zoology	04/10/2022
Ms. Pooja Sanjay Dandge	BSc-I	Uni. Level ,”Innovative Science Model Making Competition”	Consolation	Deptt. of Physics	26/09/22
Ms. Arti Sanjay Dandge	BSc-I	Uni. Level ,”Innovative Science Model Making Competition”	Consolation	Deptt. of Physics	26/09/22

Student Activities

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 students regularly enter the sightings on eBird App. Data

available on eBird database.



2. Online Sparrow Count in Buldhana District

This year Department of Zoology takes initiative for Online Sparrow Count in Buldhana District. This online survey conducted during 16th March to 20th March. No. of Participants was 834. 10 simple questions were asked in this online survey. Citizens participated enthusiastically. Famous Citizens cooperated for promotion of survey.

Teachers Activities

Dr. Meena T. Nikam

- Working as a Criterion Coordinator for “Criterion-III Research, Innovation And Extension” of NAAC.
- Acted as a University Subject Expert of the Screening Cum Evaluation Committee for the placement of Professor grade on 27 July 2022 at Jijamata Mahavidyalaya, Buldhana.
- Participated in CBCS/NEP executors Training Program on 17th Sept. 2022.
- Attended online State Level Seminar on-Vachanprerna Din on 15th Oct 2022 jointly organized by Shri Shivaji Science And Arts College, Chikhli and SPM College, Chikhli.
- Participated in Webinar on Gramin Vikasachi Dasha Aani Disha, on 30th Nov. 2022 organized by SGBAU, Amravati.

Dr. Vijayshree M. Hemke

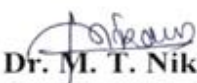
- Working as a Criterion Coordinator for “Criterion-I Curricular Aspects” of NAAC.
- Worked as a Coordinator of National Institutional Ranking Framework (NIRF-2023).
- Accomplished an Add-on Course in Sericulture as a Course Coordinator.
- Working as a Coordinator for Alumni Association.
- Working as 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 in CBCS/NEP executors Training Program on 17th Sept. 2022.
- Participated, Presented a paper in a National Conference at D. P. Bhosale College, Koregaon Dist- Satara Maharashtra on 09th November, 2022.
- Participated and published paper in a National conference on "New Frontiers of Biological Sciences" (NCNFBS-2023), Science College, Pauni, Dist. Bhandara on 28th April 2023.
- Participated, Presented and Publishes a paper in a International Conference at Poona College, Pune on 06th May, 2023.
- Regularly Published newspaper articles on “Environment and Wildlife Awareness” in reputed newspapers like Sakal, Janmadhyam.

Dr. Rajendra B. Gade

- Successfully completed a Refresher Course in Life Sciences during 26/07/2022 to 08/08/2022 at HRDC Center, North Eastern Hill University, Shillong.
- Participated in CBCS/NEP executors Training Program on 17th Sept. 2022

Thank You


Dr. M. T. Nikam
Prof. & Head
HEAD
 Department of Zoology
 Shri Shivaji Sci. & Arts College
 Chikhli, Dist. Buldana 443201