



Charles Robert Darwin

ANANDIBAI RAORANE ARTS, COMMERCE AND
SCIENCE COLLEGE, VAIBHAVWADI

DEPARTMENT OF ZOOLOGY

OUR DEPARTMENT

Department of Zoology was established in academic year 2012-13 with first batch of F.Y.B.Sc. Department has three full time qualified staff. Department teaches to UG classes and running certificate courses keeping views of need of society and students. We have opted Entomology (a study of insects) as an Applied Component for T.Y.B.Sc. Class.

More than four batches of graduate students have been released out from the Department. Many of them have grabbed good position in different areas of their careers. Department has been successful in producing good results of T.Y.B.Sc. Exams. Department has spacious and well equipped laboratories for carrying out practical sessions. Laboratories have enough instruments, equipments and animal specimens of different phyla as suggested by curriculum.

As a part of extra curriculum department celebrates different days, events related to subject and keep students well aware about.

Department is maintaining Zoo Garden which includes Butterfly garden, and pond to rear and culture micro fauna, invertebrates, frog, fishes etc. for study purpose. We also have fish tank (small aquarium) maintained in our laboratory. Department has good internet facility (with WIFI), printer, scanner for faculty and students for smooth functioning.

We have opted student centric methods in teaching and learning. Faculty member always creates healthy academic environment and encourage students to participate in various events organised in or outside the college. They are involved in training the brains of the students in their placement gain. In our department we are nurturing students to enable them to be globally competent. We have adopted innovative teaching learning methods using ICT based techniques in learning resources, softwares (Zygote body). As a part of advanced study we conduct Google Classroom for all three classes.

We organise guest lectures on academics. Outcome of the all academics and social activities conducted was having overwhelming response and beyond expectation for the beneficiaries i.e. students.

The faculty have actively participated and contributed in the designing and development of curricula of university course in Zoology. The faculty is involved in effective teaching, timely consultancy and extension activities.

Department have successfully completed Minor Research Projects. The staff members of the department have published— Research papers in various journals. The students of department have also participated continuously in research activities such as 'Avishkar'.

VISION

- ✓ To impart fundamental, global knowledge of animal science as well as inculcate morality among students for making them career oriented and strong enough to face challenges in developing world.

MISSION

- ✓ To facilitate students with knowledge of current advantages in zoology.
- ✓ To explore animal diversity in the locality.
- ✓ To offer skill based programmes/courses.
- ✓ To develop research and scientific attitude among students.
- ✓ To organise programmes to aware people in the locality about social issues.
- ✓ To make student aware about nature and appreciate it.

FACULTY

1.		Dr. N. R. Hedulkar Head and Assistant Professor M.Sc., SET, B. Ed, Ph.D.
2.		Dr. D. S. Korgaonkar Assistant Professor M.Sc., Ph.D.
3.		Dr. A. R. Dighe Assistant Professor M.Sc., B.Ed. SET, Ph.D.

FEATURES OF DEPARTMENT

- ✓ Department conducts Yoga practice once in week
- ✓ Department organise field trips, excursions
- ✓ Different projects are given to students
- ✓ Most of the lectures are taught over Power Point Presentation. These lectures includes videos, animations, pictures for easy understanding of subject
- ✓ Guest speakers are invited to add extra knowledge to our students
- ✓ Department runs skill based Certificate Courses
- ✓ Study materials is provided on regular basis by the faculty members
- ✓ Department orient the students about ecosystem, bio-diversity, wildlife conservation and management with the help of models, photographs, movies, documentaries, charts and use of ICT and take learners to field to have realistic experiences.
- ✓ Department creating awareness about different types of issues and also to make best use of the knowledge in their own interest as well as for the country.

MAJOR EVENTS OF DEPARTMENT TILL DATE SINCE 2014-15

ACADEMIC YEAR 2014/15		
Sr. No.	Date	Events
1	14 Aug.2014	Inauguration Of Nature Club, Plants Distribution, Plantation
2	20 Feb.2015	Excursion at Devgad,Vijaydurg,Kunkeshwar
ACADEMIC YEAR 2015/16		
Sr. No.	Date	Events
1	17 Aug. 2015	Khambale, Achirane,Kokisare field trip
2	16 Dec.2015	Excursion at Devgad,Vijaydurg,Taramunabri
3	05 Mar. 2016	Nest Making, Nest Hanging Activity in College Campus
ACADEMIC YEAR 2016/17		
Sr. No.	Date	Events
1	16 July 2016	Field trip at Sadure,Arule
2	07 Oct. 2016	Arranged Guest lecture during wildlife Week
3	14 Oct. 2016	Snake photo exhibition cum competition
4	1 Dec. 2016	Demonstration on use of Sphygmomanometer by Dr. Mahendra Lavate
5	7 Feb. 2017	Excursion at Shahu Palace, Shivaji University,Rankala,Kanheri Math
ACADEMIC YEAR 2017/18		
Sr. No.	Date	Events
1	28/06/2017	One Day Workshop On Revised Syllabus Of “T.Y.B.Sc. Zoology Applied Component (Entomology) And Introduction To Case Studies & Open Unit”
2	5,6,7,8 Feb.2018	Excursion at Ajintha, Verul,Dr.BabasahebAmbedkarMarathwadiUniversity,Aurangabad
3	31 Jan.2018	Snakes: facts and superstitions
4	15 Mar.2018	Rural Hospital Vaibhavwadi Visit
ACADEMIC YEAR 2018/19		

Sr. No.	Date	Events
1	29 July. 2018	Tiger Day celebrated on 30 th July. 2018
2	06 Sept.2018	Blood check-up camp jointly organised with Hind Lab,Sindhudurg
3	05 Oct.2018	Zoo Rangoli Competition
4	06 Oct.2018	Quiz Competition
5	5 Jan. 2019	Field trip at kokisare
6	02 Feb.2019	International Wetland Day
7	27 Feb.2019	Excursion at Sawantwadi (PG Dept.of Zoology), Shiroda beach (Marine ecosystem),Vengurle Harbour to survey fish market
8	25 Mar. 2019	World Sparrow Day: Nest and Feeder making activity
9	27 Mar.2019	Animals exhibition for school
ACADEMIC YEAR 2019/20		
Sr. No.	Date	Events
1	29 July 2019	Slogan display activity on occasion of World Tiger Day on 29 July 2019
2	27 Sept.2019	Special excursion cum field trip at Dajipur Wildlife Sanctuary
3	04 Feb.2020	World Cancer Day
4	22 Feb.2020	Guest Lecture on ‘Career Guidance in Zoology’
5	03 Mar.2020	World Wildlife Day, Animal Photography Competition
6	15 Feb.202	Excursion trip at Shivaji University Kolhapur
ACADEMIC YEAR 2020/21		
Sr. No.	Date	Events
1	16 Sept.2020	World Ozone Day
2	12 Nov.2020	District Level Essay writing Competition on Occasion of Dr. Salim Ali, birdman of India
3	05 Feb. 2021	Fire Prevention Week
ACADEMIC YEAR 2021/22		

Sr. No.	Date	Events
1	23 Dec. 2021	Career Guidance Workshop
2	3 Mar. 2022	Wildlife photography competition
3	13 Apr. 2022	Career Counselling 2022
ACADEMIC YEAR 2022/23		
Sr. No.	Date	Events
1	20 July 2022	Genetics Pictorial Quiz
2	6 Oct. 2022	Wild Life Week Celebration
3	28 Feb. 2023	National Science Day
	25 Apr. 2023	Excursion at Kunkeshwar, Devgad, Jamsande
ACADEMIC YEAR 2023/24		
Sr. No.	Date	Events
1	20 July 2023	Genetics Pictorial Quiz

EQUIPMENT FACILITIES

- ✓ Centrifuge machine
- ✓ Colorimeter
- ✓ Incubator
- ✓ Digital pH meter
- ✓ TDS and pH meter
- ✓ Turbidity meter
- ✓ Conductivity meter
- ✓ Refrigerator
- ✓ Water bath
- ✓ Homogenizer
- ✓ Insect trap
- ✓ Planktonic net
- ✓ Light and Compound Microscopes
- ✓ Dissecting microscope
- ✓ Refractometer
- ✓ Sound Level Meter
- ✓ Lactometer
- ✓ Digital microscope

- ✓ Foldscopes
- ✓ Charts
- ✓ Fish tank
- ✓ Electrophoresis apparatus

DEPARTMENTAL EDUCATIONAL AIDS

- ✓ Projectors
 - ✓ Scanner
 - ✓ Printer
 - ✓ Computer set with internet
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SOCIAL/OUTREACH ACTIVITIES OF DEPARTMENT

Sr. No.	Name of the activity	Academic Year
1	Seed and plant distribution	2015-16
2	Drinking water analysis	2017-18
3	Snakes: facts and superstitions	2017-18
4	Recording of Noise levels in college campus	2018-19
5	Body Mass Index Record	2018-19
6	Free Blood check-up	2018-19
7	Animal exhibition for school students	2018-19
8	National Science Day	2023-24
9	International cancer Day	2020-21

DEPATMENTAL LIBRARY

Apart from the college Library, the department has its own library to fulfil the needs of students learning zoology .The library collection includes reference books, text books, classical zoology books, Research journal and other interesting books meant to provide supplementary source of knowledge. So far department has more than 100 books and journals. We have some interesting books like Lizards of the world, Butterflies and Moths in the library.

GUEST FACULTIES VISITED TO THE DEPARTMENT

Sr. No.	Name of Visited Faculty	College
1.	Dr. G. S. Margaj	S.P.K. College, Sawantwadi, Dist-Sindhudurg
2.	Prof. V. V. Dalvie (Ex. Chairman, BoS, in Zoology University of Mumbai.)	Mithibai College, Mumbai
3.	Dr. M. N. Jamble	Head, Dept of Zoology, S.R.M.College, Kudal, Dist- Sindhudurg
4.	Dr. N.P. Kamble	S.R.M.College, Kudal, Dist- Sindhudurg
5.	Dr. Anita Jadhav (Ex. Chairman, BoS, in Zoology University of Mumbai.)	Motilal Zunzulwala College, Vashi, Navi Mumbai
6.	Dr. Shashibhal Pandey	CHM College, Ulhasnagar, Mumbai

7.	Proff. S. I. Kamble	S.R.M.College, Kudal,Dist- Sindhudurg
8.	Dr. D. D. Pawar	Abasaheb Marathe College,Rajapur,Dist- Ratnagiri
8.	Dr. D.L.Bharamal (Chairman,BoS, in Zoology University of Mumbai.)	S.P.K. College, Sawantwadi, Dist-Sindhudurg

FUTURE PLANS

Setting up of Museum

CURRICULUM ATGLANCE

CLASS	SEMESTER	COURSE NO.	COURSE CODE	UNITS COVERED UNDER EACH COURSE
F.Y. B.Sc.	Sem-I	Course:1	USZO101	Diversity of Animal Kingdom I
		Course:2	USZO102	Life Processes I , Ecology Biochemistry-I Biotechnology-I and Genetics
	Sem-II	Course:3	USZO201	Diversity of Animal Kingdom II
		Course:4	USZO202	Life Processes II , Ethology Biochemistry-II Biotechnology-II and Genetics
	USZOP2			Practicals based on both courses
S.Y.B.Sc.	Sem-III	Course:5	USZO301	Fundamentals of Genetics
		Course:6	USZO302	Nutrition and Excretion, Respiration and Circulation, Control and Coordination of Life Processes, Locomotion and Reproduction
		Course:7	USZO303	Ethology, Parasitology, Economic Zoology
	Sem-IV	Course:8	USZO401	Origin and evolution of life, population genetics and evolution, Scientific attitude methodology, writing and ethics.
		Course:9	USZO402	Cell biology, Endo membrane system and bio molecules.
		Course:10	USZO403	Comparative embryology, aspects of human reproduction, pollution and its effects on organism
	USZOP3			Practicals based on all three courses
T.Y.B.Sc	Sem-V	Course:11	USZO501	Study of Animal Types-I , Comparative chordate Anatomy ,Developmental Biology , Histology and Endocrinology
		Course:12	USZO502	Physiology and Homeostasis and regulation
		Course:13	USZO503	Molecular Biology and Toxicology
		Course:14	USZO504	Environmental Science-I , Environmental Biology , Epidemiology and Biostatistics
		Applied Component	USACEENT501	Applied Entomology

	Sem-VI	Course:15	USZO601	Study of Animal Types-II , Comparative chordate Anatomy-II , Developmental Biology-II , Histology and Endocrinology-II
		Course:16	USZO602	Haematology and Immunology
		Course:17	USZO603	Biotechnology , Genetics and Evolution
		Course:18	USZO604	Environmental Science-II , Environmental Biology-II , Epidemiology and Biostatistics-II
		Applied Component	USACEENT601	Commercial Entomology
				Practicals based on all five courses
CCBAH (Certificate course in Basic and applied Haematology- Departmental Course) from academic year 2018-19	COURSE I			Basic Haematology
	COURSE II			Applied Haematology
				Practicals based on both courses
CCEFS (Certificate course in Essentials in Fishery Science) academic year 2019-20	COURSE I			-
	COURSE II			-
				Practicals based on both courses
CCGF (Certificate course in Goat Farming) academic year 2012-21				

PHOTOGALLERY

PHOTOS OF ACTIVITIES HELD BY ZOOLOGY DEPARTMENT SINCE ACADEMIC YEARS 2014- 15



Animal exhibition for school students- animal shortvideo film



Dr. N. R. Hedulkar teaching Yoga to the students



A moment during Animal exhibition for school students



Excursion Tour at Sawantwadi- At Shivram Raje Bhosale Udyan Sawantwadi, 2018-19



Guest lecture on Haematology certificate course by Prof. S. I. Kamble, 2018-19



Practical guidance on WBC and RBC Count by Prof.S. I. Kamble to the certificate course students



Prof. Dr. G. S. Margaj giving special lecture on Careers in Zoology, 2018-19



Innovative nest and feeder making competition- Inaguration by I/C Principal Dr. N.V. Gavali,2018-19



Innovative nest and feeder making competition- Dr.A.R.Didhe giving information about nests to the gathering



Dr. N. R. Hedulkar teaching Yoga to the students, 2018-19



Innovative nests placed for competition/display



Animal exhibition for school students. Dr. N. R. Hedulkar showing specimens to the school students



Animal exhibition for school students- students observing animal specimens, 2018-19



Innovative nest and feeder making competition. Dr. N. R. Hedulkar showing nest to the college staff member, made by students, 2018-19



Quiz Competition, 2018-19



A moment during Quiz Competition, 2018-19



International cancer Day 4/2/2020



Excursion group photo at Bhuibavada, Tal-vaibhavwadi, 2017-18



A moment during Zoo Rangoli Competition, 2018-19



Excursion group photo at Kokisare, Tal-vaibhavwadi, 2018-19



Dr. Shashibhal Pandey, CHM College, Ulhasnagar, Mumbai delivering special lecture on Human Evolution, 2018-19



Dr. N. R. Hedulkar delivering lecture on occasion of World Sparrow Day, 2017-18



Smt. L. S. Suryavanshi guiding to attendance on occasion of World Sparrow Day, 2017-18



Inauguration of Science Exhibition by Shri. R. F. Raorane, Chairman, MPSS. 2015-16



Overwhelming response to the Science Exhibition by School Students 27 Jan. 2016



Excursion group photo at Devgad, Tal-Devgad, 2015-16.



A student of S.Y.B.Sc. during seminar, 2016-17.



Demonstration on use of Sphygmomanometer by Dr. Mahendra Lavate, 2016-17



Dr. A. R. Dighe during Tiger Day celebration on 30th July, 2018



*Dr. N. R. Hedulkar during introductory speech on 'One Day Workshop On Revised Syllabus Of T.Y.B.Sc. Zoology Applied Component', 2017-18 * Dr. Anita Jadhav, Chairman, BOS in Zoology, Mumbai University, addressing to the attendance during 'One Day Workshop On Revised Syllabus Of T.Y.B.Sc. Zoology Applied Component' 2017-18 (Below).





Rural Hospital, Vaibhavwadi Visit, 2017-18.



A moment during Animal exhibition for schoolstudents, 2018-19





Principal Dr. C. S. Kakade during snake photo Exhibition-Cum competition, 2016-17



Visit of Proff. Shri. Vinayak Dalvie, Chairman, BOS in Zoology, Mumbai University, during Metamorphosis workshop, 2014-15.



* Excursion at Zoology Department, Shivaji University, Kolhapur. 2016-17 * Students observing specimens at Zoology Department, Shivaji University, Kolhapur. 2016-17



Happy moment in lab with students of 2015-16 batch



Innovative nest and feeder making competition. Students making nests in Zoology Lab., 2018-19 *
Innovative nest and feeder making competition- the nests displayed for competition.



World tiger day slogan display, 29 July 2019



Recording of Noise levels in college campus, 2018-19



Zoology Lab 01



Zoology Lab 02



World Wildlife Day, Animal Photography Competition, 2019-20



World Wildlife Day, Animal Photography Competition, 2019-20 Prize distribution



World Wildlife Day, Animal Photography Competition, 2019-20 A photo for display



Lecture on Career Guidance in Zoology 22/2/2020



International cancer Day 4/2/2020



Lecture on Career Guidance in Zoology 13/04/2022



Wildlife week celebration, A talk on Wildlife conservation by Dr. M.N. Jambale 13/04/2022



National Science Day celebration 28/02/2023, Dr. A. R. Dighe Guiding students



National Science Day celebration 28/02/2023



National Science Day celebration 28/02/2023



Fire Prevention Week 2021



Excursion at Ajintha, Verul, Dr.BabasahebAmbedkarMarathwadiUniversity,Aurangabad 2017-18

**Anandibai Raorane Arts Commerce and Science College
Vaibhavwadi**

Department of Zoology

On occasion of world wildlife day

Organizes

Wildlife photography

competition 2022



- All students of college can participate
- Registration is compulsory
- Only Geo-tagged photos will be considered
- First three winners will be given attractive gifts
- One student can send two entries at a time
- Send your photos to following E mail Id
- Results will declared on World Sparrow Day (20 March 2022)

Activity period : 03 March to 19 March 2022

Email ID: arevaibhavwadizooology@gmail.com

Link for registration: <https://forms.gle/plUX6n7GTc2R9cPF7>



**ANANDIBAI RAORANE ARTS, COMMERCE AND
SCIENCE COLLEGE, VAIBHAVWADI**

**Department Of Zoology On Occasion Of
Dr. Salim Ali Birthday Anniversary.**



Present's

**District Level Intercollegiate
Essays Writing Competition
2020-21**



Topics

- 1) Birds And Environment**
- 2) Birds Conservation : Need Of Time**

Rules of Competition

- 1) Student can send only one essay on either of the topic given above.
- 2) Words limitation 1000.
- 3) Essays must be in Times New Roman font and 12 size.
- 4) Student can also send handwritten scanned copies of essays.
- 5) Essays must be in PDF format.
- 6) Student can write essay either in Marathi or English language.
- 7) Winners will be awarded with certificates & attractive gifts. The date of distribution of the same will be communicated afterwards.
- 8) Email address for essay to be sent and communication is 'arcvaibhavwadizooology@gmail.com'

Link for Registration

<https://forms.gle/oMQ9VeG3womPxmga9>

Last Date 28th Nov 2020