

PROFILE

DEPARTMENT OF ZOOLOGY

1. Scope and Importance of Department-

The students of Zoology can learn about animals and Zoological principles which may help them for the proper maintenance of life and the Environment. Zoologist acquires the power to evaluate nature which is not possible by other means. The scope of applied Zoology is innumerable. It provides knowledge of Sericulture, Vermiculture, Veterinary, Museum Work, zoological research, agriculture, environmental science and conservation.

2. **Introduction of Department-** The Department of Zoology started in the Academic Year 1997-98. The department focuses on the Mainly Applied Zoology subject which has Various Courses i.e. Sericulture, Vermiculture, Apiculture, and various courses that create self-employment. Departmental Staff involved in various Seminars, Conferences Symposia and Research Activities. The department also organized extension activities with the Community. The department organized eminent person guest lectures, Quiz Competitions, PPT presentations, and Field visits for the holistic development of students. The Department has two well-equipped laboratories.

3. Year of Establishment- 1997

4. Detail of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., Short term courses, Career oriented courses, etc. (Current academic year) 2023-24

Sr. No	Programme level	Name of the programme/ Course	Duration	Entry qualification	Medium of Instruction	Sanctioned/ Approved student strength	No. of Student admitted
1	UG	F.Y.B.Sc	1. years	12 th Science	English	120	44
2	UG	S.Y.B.Sc.	1. years	F.Y.B.Sc	English	120	19
3	UG	T.Y.B.Sc.	1. years	S.Y.B.Sc	English	120	03

5. Annual/ semester/ choice-based credit system/elective course pattern (programme wise)

Programme	Pattern	Year of Implementation
B.Sc.	Choice-Based credit system 2019	2019
B. Sc.	National Education Policy	2024

6. Number of Teaching and Non-teaching positions in the department

Designation	Sanctioned	Filled
Professors	--	--
Associate Professors	--	--
Asst. Professors	2	2
Lab Assistant	1	1
Peon	1	1

7. Faculty profile with name, qualification, designation, specialization, (Ph.D. / M. Phil. e.t.c.)

Sr. No.	Name of faculty	Qualification	Year of appointment	Designation	Specialization	Number of years of teaching experience (Year and months)
1	Dr. Pawade Vishnu Rakhamaji	M.Sc. B.Ed. Ph.D.	2008	Asst. Professors	Zoology (Entomology)	15 Years
2	Mr. Talole Sandip Dattatray	M.Sc. SET, NET, GATE Ph.D. ongoing	2021	Asst. Professors	Zoology (Entomology)	05 Years

8. Ongoing /completed research projects by faculty funded by governmental and non-governmental agencies (Last five years)

Sr. No	Name of the principal investigator	Duration of the project	Name of the research project	Amount fund received	Name of funding agency	Year of sanction	Dept. of recipient
1	Dr. Pawade Vishnu Rakhamaji	02 Years	Servey of Rahata Tahsil concerning Agricultural insect pest of major crops of Rahata tahsil and Develop bio control strategies and micro level identification of pest	2,13,000	Pravara Institute of research and education in natural and social sciences	2022-23	Zoology

9. Research papers published in journals notified on UGC website (Last five years)

Sr. No.	Name of Journal	Title of Research Paper	ISSN/ ISBN No.	Whether peer reviewed. Impact Factor, if any
Dr. V. R. Pawade				
1	Research Journey	Toxicity of Custard apple leaves on Ictalurus punctatus.	ISSN- 2348-7143	peer reviewed
2	National-level seminar on NAAC Accreditation and Consequences of the Pandemic	Infrastructure &LR: Comparison between Recent two manuals of NAAC	--	Conference Proceeding
3	Journal of research and development	Comparative toxicity of the dhatura on fresh water fishes channel	22309578	peer reviewed
4	Education today	Comparative toxicity of the Nerium on fresh water fishes Channel Catfish.	ISSN 2229-5755	peer reviewed
5	Amierj	Seasonal variation of Moniezia (B) hircusae in <i>capra hircus</i> at Sangmner region Ahmednagar district (MS)	ISSN 2278-5655	peer reviewed
6	EDU World	Studies on population dynamics of <i>Stilesia shindai</i> in <i>capra hircus</i> at Sangmner	ISSN 2319-7129	peer reviewed

		region Ahmednagar district (MS)		
7	EDU World	Studies on population dynamics of Moniezia (B) hircusae in <i>capra hircus</i> at Sangmner region Ahmednagar district (MS)	ISSN 2319-7129	peer reviewed
8	EDU World	Description on Monizia (B) alkae in intestine of <i>capra hircus</i> (linne1858) from Sangmner region Ahmednagar district (MS)	ISSN 2319-7129	peer reviewed
9	EDU World	Description on Monizia (B) singhi sp. Nov. in intestine of <i>capra hircus</i> (linne1858) from Sangmner region Ahmednagar district (MS)	ISSN 2319-7129	peer reviewed
10	EDU World	Redescription on Monizia (B) bharale, shinde et al.,1985 in intestine of <i>capra hircus</i> (linne1858) from Sangmner region Ahmednagar district (MS)	ISSN 2319-7129	peer reviewed
Mr. Talole S. D (Assist. Prof. Zoology)				
1	Research Journey	Toxicity of Custard apple leaves on <i>Ictalurus punctatus</i> .	ISSN- 2348-7143	peer reviewed
2	National-level seminar on NAAC Accreditation and Consequences of the Pandemic	Consequences of the Pandemic on Higher Education of India		peer reviewed
3	Flora and Fauna	Studies on the Wilson dam Reservoir Water quality In relation to Fishing, Ahmednagar District, Maharashtra, India	ISSN 2456-9364(Online) 0971-6920(Print)	UGC Care NAAS Rating-4.74
4	Flora and Fauna	Effect of Molasses on Protein content Of fresh water Fish, <i>puntius Chrysopterus</i>	ISSN 2456-9364(Online) 0971-6920(Print)	UGC Care NAAS Rating-4.74
5	Journal of research and development	Comparative toxicity of the dhatura on fresh water fishes channel	22309578	peer reviewed

10. Number of books and chapter in edited volumes/Books Published

Title of the book/chapter published	National/ International	Year of publication	ISBN/ISSN No.	Name of the publisher
Nil				

11. Name of Research Guides-

Sr. No.	Name of research guide	Ph. D/ M. Phil
	Nil	Nil

12. Number of Ph. D/ M. Phil awarded by faculty

Name of Ph. D/M. Phil scholar	Name of the Guide/s	Title of the thesis	Year of registration of scholar	Year of awards of Ph. D/ M. Phil.
Nil				

13. Faculty as chairman/members in National committees/International Committees/ Editorial Boards/BOS/University committees etc.

Sr. No.	Name of faculty	Name of the body in which full time teacher participated	Member of editorial board	Reviewer
Nil				

14. Student undertaking field projects/ internships-

a) Percentage of students who have done in-house projects including inter departmental / Programme

Program name	Program code	Year	No. student undertaking field projects/Internships
T. Y. B. Sc.	ZO 3611	2023-24	03

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/society other agencies

Program name	Program code	Year	No. student undertaking field projects/Internships
Nil			

15. Awards / Recognitions received by faculty

Year of awards	Name of full time teachers receiving awards from state level, National level, International level	PAN	Designation	Name of the award, fellowship, received from government or recognized bodies
2023	Best Teacher State Level Award.		Best Teacher	Divyajyot bahuuddeshiya sanstha, Taklibhan, Tal-Shrirampur.

16. Numbers of awards / Medals for outstanding performance in sports/cultural activities in National/ International/ State level etc. received by students

Year	Name of the award/Medal	National/International/State etc.	Sports/Cultural	Aadhar/Student ID No.	Name of the Student
Nil					

17. Students Qualifying in State/National/International level examination (NET, SET, GATE, GMAT, GRE, TOEFL/UPSC/MPSC/State government examination, etc.)

Year	Registration No./Roll for the examination	Number of students selected								
		SET	NET	GATE	GMAT	CAT	RGE	TOFEL	Civil services	State Govt. Examinations/Others
Nil										

Student progression to higher studies. UG to PG, PG to M. Phil., PG to Ph. D, M. Phil to Ph. D, Ph. D to post-Doctoral, etc.

UG to PG

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted
1	T. Y. B. Sc. Zoology	Zoology	Gadhve Vidya Eknath	K. J. Somaiya College, Kopargaon	M.Sc. Zoology
2	K. J. Somaiya College, Kopargaon	K. J. Somaiya College, Kopargaon	Gunjal Hrutik Jijabapu	K. J. Somaiya College, Kopargaon	M.Sc. Zoology

1. PG to M. Phil- Nil

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted

1. PG to Ph. D or M. Phil to Ph. D.- Nil

Sr. No.	Program Graduated From	Department Graduated from	Student Name	Name of the Institute Joined	Name of the Program admitted

18. Placement of outgoing students (Last five years)- Nil

Year	Contact detail	Number of students placed	Name of the employer with contact details	Package received	Program graduated from

19. List of alumni/contribution- Nil

Sr. No.	Name of Alumni	Year of Graduation/Post Graduation	Position held	Contact detail (Email, Mobile No.)	Quantum of Contribution

List of eminent academicians and scientists/visitors to the department-

Sr. No	Name of eminent academicians and scientists	Date
1	Mr. Amol Gavande (CEO-Smartchem Company)	28 th February Monday 2022.
2	Mr. Sanjay Raut (Owner of Vermicompost unit Kolhar)	11 th May 2022
3	Prof. R. S. Shinde (Outstanding Scientist)	28 th Feb. 2023
4	Mr. Bapusaheb Shinde (Gov. Agri. Officer Rahata Tasil)	08 th April, 2022

20. Seminars/ Conferences/ Workshops organized & the source of funding-

Sr. No.	Level National/ International/ State	Name of the workshop/Seminar	Funding agency	Amount sanctioned	Durations (From-To)	Number of participants
1	National	“Career Opportunities in Science”	--	--	25 th Sep 2021	100

21. Student profile programme/course wise (Last Five Years):

Year	Name of the Course/programme (refer question no. 4)	Applications received	Enrolled		Total number of Students
			*M	*F	
2018-19	F.Y.B.Sc	83	42	41	83
	S.Y.B.Sc	47	16	31	47
2019-20	F.Y.B.Sc	65	28	37	65
	S.Y.B.Sc	52	28	24	52
2020-21	F.Y.B.Sc	54	25	29	54
	S.Y.B.Sc	50	22	28	50
2021-22	F.Y.B.Sc	41	14	27	41
	S.Y.B.Sc	51	25	26	51

2022-23	F.Y.B.Sc	32	16	16	32
	S.Y.B.Sc	29	10	19	29
2023-24	F.Y.B.Sc	44	24	20	44
	S.Y.B.Sc	19	06	13	19
	T.Y.B.Sc	03	2	1	03

*M = Male *F = Female

22. Departmental result

Year	Program Code	Program Name	Number of students appeared in the final year examination	Number of students passed in final year examination
2023-24	B. Sc.	T. Y. B. Sc. Zoology	03	03

23. Number of linkages for faculty exchange/student exchange/training/internship/field trips/job on training/research etc.

Sr. No.	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	Nature of linkage
Nill					

24. Number of functional MoU's with corporate houses/ industries/other institutes/Universities, etc.

Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year-wise	Number of students/teachers who participated under MoUs
1	Vaishali-Agro Farm, Chinchpur.	2022	5 Years	2021- Field Visit 2023-Field Visit.	Academic

25. Details of Infrastructural facilities

a) Library: Departmental.

Sr. No.	Name of Books	Publisher	Number of copies
1	Animal Systematics and Diversity I & II	Nirali	15
2	Non-Chordates and Chordates	Nirali	15
3	Cell Biology and Genetics	Nirali	15
4	Genetics and Parasitology	Nirali	20
5	General Zoology and Biological Techniques-I	Nirali	15
6	Practical Zoology	Nirali	10

b) Internet facilities for Staff & Students- 100 mbps net facilities is available

c) Classrooms with ICT facility: 01

d) Laboratories: 02

Sr. No.	Facility	Detail	Area
1	Well Furnished laboratory with working tables and necessary Practical Instruments	Glassware, Chemicals, Preserve Specimens, Diagrammatic Charts,	73.33 sqm
2	Well Furnished laboratory with working tables and necessary Practical Instruments	Glassware, Chemicals, Preserve Specimens, Diagrammatic Charts,	48.33 sqm

e) List of Equipment's / Instruments

Sr. No.	Particulars	Quantity
1.	Dissecting microscope	15
2.	Camera lucida Mirror type	1
3.	Trinocular Biological microscope Make Olympus Model Ch20i tr with stand	1
4.	Conductivity meter Eco tester Ec Low Eutech Conductivity meter m-68m	1
5.	TDS meter make Labelectronics modelLT-19 TDS meter Dist-4 Ecotester	1
6.	Plankton Net	1

7.	Digital Microscope (Labomade make) with camera	1
8.	Digital Conductivity meter with cell cm180 elic	1
9.	Thermostat Rectangular Water Bath	1
10.	Cooling Centrifuge	1
11.	Salinity meter Eco testersalt Eutech make m-80	1
12.	Pocket PH meter	1
13.	Dissection Box	1
14.	Haemoglobino meter	6
15.	Compound microscope Model HSA	6

**26. Details on student enrichment programmes (special lectures / workshops / seminar)
with external experts**

Sr. No.	Enrichment programmes	Experts
2	The Science Association of Arts Science and Commerce College, Rahata. organized a guest lecture on “National Science Day” for Students on 28 th February Monday 2022.	Shri. Amol Gawande Sir. CEO Smartchem Plus, Nashik.
4	Inauguration of ‘Dr. APJ Abdul Kalam Science Research Forum’ and Celebration of National Science Day- 2023(“National Poster Presentation and Lecture/ PPT Presentation Competition”).	Prof. R. S. Shinde Sir
5	The Science Association of Arts, Science, and Commerce College, Rahata Organized a Guest lecture on the “Government Agricultural Scheme” for students on 08 th April 2022 at 10.00	Shri. Bapusaheb Annasaheb Shinde Agricultural Officer, Rahata Tahsil, Dist-Ahmednagar
7	Zoology Department visit to MPKV, Rahuri on 24 th December 2021.	Head of Dept. Entomology and Food Processing unit of MPKV Rahuri.
8	Guest Lecture on “Vermicompost Bin Preparation” on Wednesday 11 th May 2022 at 12.30 pm.	Mr. Sanjay Raut Sir (Owner of Vermicompost Unit)
9	National Webinar on “Career Opportunities in Science” 25 th Sep 2021	Dr. Madhusudan Amrutsagar, Associat Proffessor. Zoology, Dr. P. r. Ghogrey Science College Dhule. Dr. Sujit Jamdar Assit. Prof. Zoology G. M. vedak College of Science Tala. Dist. Raygad.
10	Field Visit at Anand Agri Biotech Unit of Vermicompost and Vaishali Sericulture farm (Sericulture Unit) Chinchpur (Activity under MoU) 20 March 2023	Mr. Babasaheb Tambe (Owner of Vermicompost Unit) Mr. Sachin Pulate (Owner of Vermicompost Unit)

27. Teaching methods adopted to improve student learning-

- YouTube
- PowerPoint presentations
- Use of Video Clips
- Project Work
- Students' seminar
- Field projects/Survey

28. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr. No	Name of the Staff	Participation in Institutional Responsibility
1	Dr. V. R. Pawade	Criterion IV- Member
		Chairman Science Association
		Member of Skill Development- Member
		NAAC steering Committee- Member
		Library Advisory Committee- Member
		Examination Committee-Member
		Campus Development Committee-Member
		Education Tour and Excursion Committee-Member
2	Mr. S. D. Talole	Criterion III- Member
		Earn and Learn Scheme -Member
		Science Association -Member
		Examination Committee-Member
		Science Incubation Center -Member

29. SWOC analysis of the department

- Experienced and well qualified staff.
- Well Equipped laboratory with standard equipment and digital instruments.
- Certificate Course for Students.

30. Future plans:

- **To Start Apiculture Certificate Course.**
- **To Organize Field visit to Sericulture/ Vermiculture/ Apiculture/Pisciculture Unit.**
- **Enhancement of laboratory instrumentation**
- **Collaboration with Reputed institutes/ farm/Research Center for Academic purpose.**

