

DEPARTMENT OF ZOOLOGY

1. **Name of the Department** : Zoology
2. **Year of Establishment** : 1971
3. **Courses/ Programmes offered** : U.G., P.G., Ph.D.
(U.G., P.G., M.Phil., Ph.D. etc.)
4. **Interdisciplinary courses and departments involved:** Nil
5. **Annual semester/ choice based credit system:** Semester and credit system
UG: Semester and credit system (60+40) and (80+20) CGPA Pattern
PG: Semester and credit system (60+40 CGPA Pattern)
6. **Participation of the department in the courses offered by other departments:**
 Environmental studies at F.Y.B.Sc. level is interdisciplinary subject.
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.-**
 NA
8. **Details of courses/programmes discontinued (if any) with reasons-** NA
9. **No. of teaching posts sanctioned and filled:**

Post	Sanctioned	Filled
Professor	Nil	Nil
Associate Professor	Nil	Nil
Assistant Professor	06	05
Others/CHB	05	02

10. **Faculty profile with name, qualification, designation, experience and research under guidance:**

Name	Qualification	Designation	Specialization	Experience	No. of Ph.D students guided in the last 5 years
Dr. R. M. Chaudhari	M.Sc. Ph.D. B.Ed.	Asst. Prof. & Head	Mammalian Reproduction	18	Nil
Dr. S. S. Bhande	M.Sc. Ph.D.	Asst. Prof.	Mammalian Reproduction	07	Nil
Miss. S.S. Sane	M.Sc. M.Phil	Asst. Prof.	Entomology	07	Nil
Miss. S.P.Fulpagare	M.Sc. M.Phil	Asst. Prof.	Entomology	07	Nil
Dr. Y.H.Wasu	M.Sc. Ph.D.	Asst. Prof.	Entomology	03	Nil

11. Visiting Faculty:

Name	Qualification	Designation	Specialization	Experience in Years
Dr. A. S.Patil	M.Sc. M.Phil. Ph.D.	Reader	Entomology	30
Dr. S.R. Magare	M.Sc. Ph.D.	Asso. Professor	Entomology	21
Dr. R. D Patil	M.Sc. M.Phil.	Assi. Professor	Entomology	20

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty

UG: B. Sc. (Zoology) - **6.48%**
P.G. (Entomology) - **25%**

13. Student -Teacher Ratio (programme wise):

UG: B. Sc. (Zoology) - **75:01**
P.G. (Entomology) - **06:01**

14. No. of Non teaching staff: 02**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

No. of faculty members with Ph.D. = **03**
No. of faculty members with M. Phil. = **02**
No. of faculty members with PG = Nil

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sr. No.	Name of the project	Name of the Principal Investigator	Funding Agency	Amount of fund	Durati on with years
1	Effect of Vinca Alkaloid, Vincristine on sperm study in albino rat	Dr. R.M.Chaudhari	U.G.C. (WRO) Pune	1,50,000	2012-14
2	Scientific evaluation on antifertility effect of Amaranthus spinisus in Albino rat	Dr. S. S. Bhande	U.G.C. (WRO)	1,75,000	2012-14
3	Investigations on larvicidal effects of Parthenium hysterophorus against polyphagus pests	Dr. Y. H. Wasu	U.G.C. (WRO)	3,25,000	2015-2017

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

(a) Departments Project Funded by UGC - **03**
(b) Total Grants Received so far - **6,50,000/-**

18. Research Centre /facility recognized by the University

Department is recognised as research centre for Ph. D and M. Phil. study by affiliated University.

19. Publications (Give details):

Number of papers published in peer reviewed journals(National/ International):

Sr. No	Faculty Name	Public ation	Citation / index – range/ average	Impact factor	Editing Books	Books with ISBN numbers
1	Dr. R. M. Chaudhari	07	-	1.07	04	01
2	Dr. S. S. Bhande	01	-	0.8	-	-
3	Miss. S. S. Sane	03	-	-	-	-
4	Miss. S. P. Fulpagare	03	-	-	-	-
5	Dr. Y. H. Wasu	06	1	2.5	-	-

20. Areas of consultancy and income generated: Nil

21. Faculty as members in:

- **Dr. R. M. Chaudhari** –Member, BOS, NMU Jalgaon,2013.
Syllabus Committee Member, M.Sc. (I)&II
- **Dr. S S Bhande** - Life member India Society of Reproductive Biology
- Life member of Indian Science Congress
- **Miss S.S.Sane** - Life member of Z.S.I. Bodh Gaya Bihar
- **Miss S.P.Fulpagare** - Life member of Z.S.I. Bodh Gaya Bihar
- **Dr. Y H Wasu**- Life member of Indian Society for Malaria and other Communicable Diseases
- Life member of Indian Science Congress
- Life member of Nat academy Vector Borne Diseases
- Editorial Board member International journal of Zoology Research
- Reviewer for Journal of Plant and Agricultural Sciences, Published by International Greener Journal

22. Student projects

- Percentage of students who have done in-house projects including inter departmental/programme: UG- 8% , PG- 50%
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: Nil

23. Awards / Recognitions received by faculty and students:

Sr. No.	Faculty Name	Title of the Award	Agency	Type of achievement
1	Dr.R.M. Chaudhari	Congress of Zoology Gold Medal 2013	Z.S.I.Bodh Gaya Bihar	Excellent Performance in organizing Nat. Conference
		First Prize	National Conference at Navapur	Best Poster Presentation
2	Mr. Sagar Bansilal Patel	Third Merit April-15	N.M.U. Jalgaon	Third Merit in T.Y.B.Sc.

24. List of eminent academicians and scientist/visitors to the department.

Sr. No.	Name of the eminent academicians	Institute or Place	Duration
1	Prof. Dr. M.S.Sastry	P.G.T.D. of Zoology R.T.M. Nagpur University	11 th Sep.2011
2	Dr.R.J.Andrew	Director P.G.Dept of Zoology Hislop College Nagpur	6 th Dec.2013
3	Dr.Anil Mohite	Director Dept of Zoology Sevadal Mahila College Nagpur	6 th Dec.2013
4	Dr. K.G.Janbandhu	Institute of Science, Nagpur	6 th Dec.2013

25. Seminars/ conferences/ workshops organized and the source of funding with details of outstanding participants, if any:

- Dept. has Organized UGC Sponsored National Conference on Animal Biodiversity and Recent Trends in Zoological Research.(Dec.6-7, 2013) at PSGVP Mandal's ASC College Shahada. Total participants = **125**
- Organized M.Sc.II syllabus framing workshop on dated 05th Dec.2014 at Dept. of Zoology ASC College Shahada. Total participants= **30**

26. Student profile programme/course wise:

Year	Name of the Course/ programme	Applications received	Selected		Pass percentage
			Male	Female	
2011-12	F.Y.B.Sc.	241	121	120	80
	S.Y.B.Sc.	130	50	80	85
	T.Y.B.Sc.	05	05	00	66
	M.Sc. Part I	13	07	06	38
	M.Sc. Part II	14	08	06	71
2012-13	F.Y.B.Sc.	268	141	127	48
	S.Y.B.Sc.	162	60	102	79
	T.Y.B.Sc.	06	04	02	66
	M.Sc. Part I	13	10	03	31
	M.Sc. Part II	11	05	06	63.36
2013-14	F.Y.B.Sc.	254	121	133	85.03
	S.Y.B.Sc.	124	60	64	79.48
	T.Y.B.Sc.	12	00	12	75
	M.Sc. Part I	10	06	04	40
	M.Sc. Part II	12	09	03	75

2014-15	F.Y.B.Sc.	266	151	115	82
	S.Y.B.Sc.	219	117	102	79
	T.Y.B.Sc.	32	11	21	75
	M.Sc. Part I	12	05	07	33.33
	M.Sc. Part II	10	06	04	60
2015-16	F.Y.B.Sc.	258	121	137	66
	S.Y.B.Sc.	188	83	105	78
	T.Y.B.Sc.	18	05	13	72.22
	M.Sc. Part I	20	03	16	63
	M.Sc. Part II	07	02	05	71.42

27. Diversity of students:

Year	Total no. of F.Y.B.Sc	% of students from home college	Others		
			% of students from Maharashtra	% of students from other states	% of students from other country
2011-12	241	75	23	2	Nil
2012-13	268	76	21	3	Nil
2013-14	254	68	27	5	Nil
2014-15	274	73	26	1	Nil
2015-16	258	78	20	2	Nil

28. Number of students passed in NET/SLET etc. (Last 5 years): Nil

29. Student progression:

Student progression	Against % enrolled
UG to PG	50
PG to M.Phil.	Nil
PG to Ph.D.	10
Ph.D. to Post-Doctoral	Nil
Employed	
• Campus selection	2
• Other than campus recruitment	3
Entrepreneurship/Self-employment	10

30. Present details about infrastructural facilities:

- **Library:** Departmental Library contains more than 300 reference books (+ books in central library).
- **Internet facility for staff and students:** Department is equipped with 10 Mbps internet connection, 02 (01 PC and 01 Laptop) units are available for staff and students.
- **Class rooms with ICT facility:** LCD Projector system is available for the ICT Based Lecture delivery.
- A total of 06 laboratories are available for UG and PG students and 01 separate research laboratory is for researchers.

31. Number of students receiving financial assistance from college, university, government or other agencies:

80 % students are getting financial assistance from SC, ST, OBC, NT development forum. They also get substantial financial assistance through “Earn and Learn Scheme” from the University.

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

- Remedial coaching given to weaker students.
- NET/SET Coaching classes arranged for OBC and Minority Students.
- Workshop organized for research students.
- Seminar arranged on various topics during.
- Guest lecture arrange on various topics during 2011-16.
- Seminar, Group discussion, Home assignments etc. are regularly conducted for UG and PG students.
- Educational Tours to various ecosystems like Sardar Sarovar and Toranmal
- Visit to apiculture and agriculture entomology Laboratory.

33. Teaching methods adopted to improve student learning

- Traditional Lecture Method using chalk and talk.
- Regular evaluation of both theory and practical's.
- Each teacher mentor takes care of 50 students and helps in their all round personality development.
- Interactive Method by conducting seminars, presentations and group discussions.
- Use of PowerPoint presentation using LCD projector.
- Text book, Handouts, E-books and Question papers of previous examination are made available in department.
- Educational visit on curriculum for the benefit of students.
- Projects topics are given to students and same project is carried out in the Laboratory as a part of their syllabus.

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

- In addition to regular academic activities, the students and the faculty frequently participate in the social activities and the programs organized by the college for the welfare of weaker section of the society.
- To promote environmental awareness, our department participated in “One Student-One Tree” campaign.
- Faculty of our department actively participated in “Biodiversity Audit”.
- Students and faculty of our department participated in a rally on “Social Awareness and equality”.
- With NSS volunteers faculties have actively participated in various social activities viz. Environment Awareness, AIDS awareness and Blood Donation camps, save water drive, involvement in rallies against social evils.

35. SWOC analysis of the department and Future plans

Strength:

- Student flow for UG and PG has increased.
- Faculty takes more efforts in teaching and learning activities.
- Students have bagged Gold medals in the university exams.
- Well equipped Laboratories with all types of major equipments and departmental Library
- Department is recognized research centre of the affiliating university.
- Highly qualified staff with 3 Ph.D.and 02 M.Phil holders.
- Our department has faculty with post doctor fellow from abroad and India's reputed institutes like CCMB.

Weakness:

- Most of the students belong to tribal community
- Lack of requisite number of trained Non-Teaching Staff.
- No additional teacher for postgraduate work.

Opportunities:

- Most of the students take interest in competitive examinations.
- Our student appears for NET/ SET Exams.
- In next successive years, our students have great opportunities in teaching and research.
- Research facilities can be improved in comparison to other national laboratories.
- To encourage students to read national newspapers, magazines and promote reading habits.

Challenges:

- The student strength is increasing day by day, so we cannot meet teacher student ratio.
- Also we have to prove the success of students in NET, SET and other competitive examinations.

Future plans of the department:

- To motivate the students in research.
- Guidance for NET, SET and different competitive exams.
- We can establish Zoological society for environmental awareness by organizing study tour, seminars, and popular lectures throughout the year.
- To adopt e-learning methods.
- Tie-ups with NGOs.
- To start skill based certificate and diploma courses.