

Evaluative Report of Zoology Department

1. Name of the department : **Zoology**
2. Year of Establishment : **1985**
3. Name of Programs /Courses offered : **UG: B.Sc.**
(UG, PG, M. Phil, Ph.D., Integrated : **PG: M.Sc. and Ph.D.**
Masters; Integrated Ph.D., etc.)
4. Names of interdisciplinary courses and : **Biotechnology,**
the departments/units involved : **Bioinformatics**
: **Biochemistry**
5. Annual /semester /choice based credit : **Semester & CGPA**
System (Program wise)
6. Participation of the department in the : **Microbiology and**
Courses offered by another department : **Biotechnology**
7. Courses in collaboration with the other : **Nil**
Universities, industries, foreign institution, etc.
8. Detail of courses /programs discontinued : **Nil**
(if any) with reasons
9. Number of teaching posts:

Posts	Sanctioned	Filled
Professors	01	01
Associate Professors	02	02
Asst. Professors	01	Yet to be filled

10. Faculty profile with name, qualification, designation, specialization:

Name	Qualification	Designation	Specialization	Teaching Experience (Years)	No. of Ph.D. students guided for the last 4 years
Dr. S. K. Borse	M.Sc., D. H. E. M.Phil., Ph.D	H.O.D. & Associate Professor	Physiology	28	---
Mr. R. N. Jaiswal	M.Sc., M. Phil,	Associate Professor	Developmental Biology	34	---
Dr. P. S. Lohar	M.Sc., , M.Phil., Ph.D	Professor	Physiology	24	04 (Awarded) 02 (working)
Mr. S. D.Dhangar	M.Sc., B. Ed.	Lecturer (CHB)	Entomology	02	---
Mr. S. J. Thakare	M.Sc.	Lecturer (CHB)	Entomology	01	---

11. List of senior visiting faculty : **Nil**

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

Course	Theory	Practical
B. Sc.	18.00%	08.00%
M. Sc.	-	-

13. Student-Teacher Ratio (Program wise):

Course	Number of faculties	Number of Student	Ratio
B. Sc.	5	213	43:1
M. Sc.		03	0.6 :1

14. Number of academic support staff (technical) and administrative staff; sanction and filled:

Post	Post sanctioned	Post filled
Lab Assistant	01	01
Lab Attendant	02	02
Peon	01	01

15. Qualification of teaching faculty with D. Sc./D. Lit/Ph.D/M. Phil/PG:

Qualification	No. of Faculty
M.Phil., Ph.D.	02
M.Phil.	01
M. Sc.	02

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

Name of the faculty	Name of the project	Title of project	Funding Agency	Grant received	Duration
Dr.S.K.Borse	Minor Project	Physico-chemical Characteristics of Ground Water of Chopda Town of Jalgaon District, Maharashtra.	UGC, WRO, Pune	Rs. 50,000/-	2 years
Dr.P.S.Lohar	Minor Project	Diversity of Ichthyofauna of Tapi and Aner rivers, Northwest Maharashtra	UGC, WRO, Pune	Rs. 50,000/-	2 years

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

Funding Agency	No. Of Project	Total Grants Received
UGC, WRO, Pune	02	Rs. 1,00,000 /-

18. Research Centre/facility recognized by University:**Ph.D.Research lab**

19. Publications:

- Publication per faculty
- Number of papers published in peer reviewed journals : (b1 – National , b2 – International b3 – Conference Proceedings) by faculty and students.

- c) Books edited
 d) Books with ISBN/ISSN numbers with details of publishers
 e) Impact Factor

Name of the Faculty	a	b1	b2	b3	d	e
Dr. S. K. Borse	01	--	--	01	01	--
Dr. P. S. Lohar	25	04	08	13	06 As a Reference in 24 Indian Universities.	0.3

20. Areas of Consultancy and income generated: **Nil**

21. Faculty as members in :

- a) National committees
 b) International Committees
 c) Editorial Boards

Faculty Name	Membership of	National/International/ editorial Boards	Duration
Dr. P. S. Lohar	Indian Association of Aquatic Biology	--	Since June 1999 to this date
	--	International Journal of Biotechnology, Indore	Since 2010 to this date
	--	Biotechnology and Bioscience Research Journal, Bhopal	Since 2011 to this date
	--	Journal of Social Science, Humanity and Biological Science, Gwalior	Since 2010 to this date
	--	International Journal of Biodiversity and Conservation, Nairobi (Africa)	Since 2012 to this date
	--	International Journal of Herbs and Medicinal Plants (Canada)	2013-15
	World Academy of Science, Engineering and Technology	Journal of Medicine and Biological Science.	2013-15

22. Student projects:

- a) Percentage of students who have done in-house projects including inter departmental/programme
: 100% student of T.Y. B.Sc. does in-house projects.
 b) Percentage of students placed for projects in organizations outside the institution i.e. in Research /Industry /other agencies **: None**

23. Awards/Recognitions received by faculty and students :

Faculty Name	Award	Awarded by	Year
Dr. S. K. Borse	Gaurav Pramanpatra	Maharashtra Santaji Pratisthan, Chopda. (M.S.)	2008-2009

Recognitions:**Dr. S. K. Borse:**

- M. Phil guide – North Maharashtra University, Jalgaon.
- Post-graduate Recognized teacher.
- Ph. D. guide - Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu (Rajasthan).

Dr. P. S. Lohar:

- Ph. D. guide - North Maharashtra University, Jalgaon.
- Post-graduate Recognized teacher.
- M. Phil guide – Alagappa University, Karaikudi, Tamilnadu.

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

Name	Position
Dr. Vasant Jadhav	Director, Merck America
Dr. V.L.Maheshwari	Director, School of Life Sciences, NMU, Jalgaon
Dr. B.V. Pawar	Dean, Science Faculty, NMU, Jalgaon
Mr. Swapnil Potdar	Bioinformatician, Institute for Molecular Medicine, Finland
Dr. Sachin R.Patil	Taxonomist, Zoological survey of India, Jabalpur
Mr.V.V.Patil	Consultant Entomologist, Jalgaon
Mrs. Vaishali Hinge (Pawar)	Tahasildar, Bhusawal
Mr. Fugare S. H.	Registrar, MUHS, Nasik
Dr. D. P. Patil	Patent officer, Mumbai
Mr. S. A. Wade	Tax Inspector, Navi Mumbai
Mr. K. K. Patil	P.S.I., Nagpur

25. Seminars/Conferences/Workshops organized & the source of funding:

a) National b) International

Convener	Theme of the Seminar/Conference/Workshop	National/ International	Funding Agency	Year
Dr. P. S. Lohar	Workshop on Global Warming and Climate Change	University	NMU	2009

26. Student profile program / course wise:

Name of the course/program (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			Male	Female	
F.Y.B.Sc.	118	118	60	58	76
S. Y. B. Sc.	42	42	18	24	94.3
T. Y. B. Sc	04	04	02	02	25

27. Diversity of students

Name of the course	% of students from the same state	% of the students from other State	% of the students from abroad
B. Sc.	100%	-	-
M. Sc.	100%	-	-

28. How many students have cleared national and state competitive examinations such as NET, SET, GATE, Civil Services, Defense services etc.: **Nil**

29. Student Progression:

Students Progression	Against % enrolled
UG to PG	100%
PG to M. Phil.	-
PG to Ph.D.	5%
Ph. D. to Post – Doctoral	-
Employed	-
• Campus selection	
• Other than campus recruitment	50%
Entrepreneurship /Self-employment	25%

30. Details of Infrastructure facilities:

- Library- NA, However in Central library there are 1098 books of Zoology.
- Internet facilities for Staff & Students: Internet connection is available with two Nodes.
- Class rooms with ICT facility: We use to make arrangement of ICT facilities in the existing class rooms, as per requirement.
- Laboratories : **LAB1: 94.24 sq.m.**
LAB2: 31.98 sq.m.
LAB3: 60.00 sq.m.
Staff room:23.56 sq.m.
- Well equipped Laboratory with LCD Projector- 01, Display Screen- 01, Desktop Computer- 01, Scanner- 01, Colour Printer-01.

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

Total No. of Students	College (Earn and Learn Scheme)	University (Poor Boys Fund)	GOI
164	--	--	155

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

Name of the Expert	Topic	Date
Dr. Vasant Jadhav (Scientist MERCK, US)	r- DNA Technology	18/07/2009
Mr. Swapnil Potdar (Persistant Software, Pune)	Bioinformatics	20/08/2010
Mr. Sachin R Patil (ZSI, Pune)	Bio-Diversity and Conservation	26/08/2011
Prof. V. L. Maheshwari (Director School of Life Sciences NMU Jalgaon)	Challenges and new frontiers in life sciences	06/09/2012
Mr. Swapnil Potdar (Molecular Modeling, Finland)	Computer Aided Drug Designing	10/02/2013

33. Teaching methods adopted to improve student learning:
- Power Point Presentation, Video show, Use of Over head Projector, LCD, Use of Charts, Models, live and preserved Specimens
 - Group discussion, Student Seminars and assignments
34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Member of Board of Management of Jan Shikshan Sansthan.(Funded by HRD ministry)
 - Active Participation in Blood donation camp
 - Active Participation in Plantation Campaign.
 - Staff members are involved in Social awareness programmes run by Maharashtra Andhashradhha Nirmulan Samiti, Maharashtra Vivek Vahini, and various institutional committees.
 - Active participation in National Literacy Mission
 - Active participation in AIDs awareness programme
 - Promotion of Environmental awareness.
 - Organization of Blood group detection and Haemoglobin estimation camp
35. SWOC analysis of the department and future plans.

Strengths:

- Staff members of the department are having highest academic qualification
- The department is approved as PG Research Center by NMU, Jalgaon.
- The part of Alumni (4 students) registered for their Ph.D. in the department and awarded the same by NMU after completion of their research tenure.
- Two students are doing research to acquire the Ph.D.
- The department has research collaboration and MOU with Pattani Fishery Research Center, Thailand.
- Regular research papers publication in peer-reviewed journals with ISSN.
- Staff members are a part of statutory bodies of North Maharashtra University including Senate.
- Unity among Faculty and Staff.
- Punctuality in completing records and practical.

Weaknesses:

The strength of students shown considerable fluctuations because of the following factors:

- Entry students were afraid of dissections of animals as part of syllabi.
- Diversity to allied subjects.

Opportunities:

- Graduate students can opt for post-graduation studies in the department.
- Graduate students have opportunities in Forest, Fishery, Sericulture, Pharmaceutical, Chemical industries, Apiculture and other sectors of government and non-governmental organizations.
- UG and PG students can start their own small scale business related to poultry, fishery, Sericulture and bee-keeping.
- Students have good chances for interdisciplinary research work related to Biotechnology, Biochemistry, Bioinformatics, etc.
- There are opportunities for students in the field of education, research and social organizations.

Challenges:

- Being rural area, there is lack of industrial sectors and hence there is less availability of jobs.
- Conservation of Biodiversity.

Future plans:

- The PGR laboratory of Zoology Department will be utilized for identification of pathogenic stages of various insect pests and will help the farmers for integrated pest management.
- Faculty will engage the training programme for farmers in relation to beekeeping and wormiculture.
- Consultancy services will be provided to farmers regarding soil and water testing.
- Major research projects will be submitted.
- The proposal for organizing National/International conference will be submitted.
- Interdisciplinary Certificate Course.
- Implementing a Virtual Laboratory.