

## Highlights of the Department

- ❖ Excellent collection of zoological specimens. The museum represents the entire animal kingdom ranging from small invertebrates to vertebrates.
- ❖ Use of **DIGI FROG** Software for animal dissections as recommended by UGC.
- ❖ Zoological excursions to observe & study marine and forest fauna and visit to sericulture centre.
- ❖ Well equipped laboratories and departmental library for ready reference.
- ❖ Job oriented practicals like vermiculture and sericulture are taught to the students.
- ❖ Department conducts some physiological (hematological) practicals which are helpful to students for pathology course.
- ❖ Ongoing UGC sponsored Major Research Project entitled '**Effect of Bacoside A on various organs of mouse during aging**'.
- ❖ Guidance to Research Fellows.
- ❖ Three students pursuing Ph.D.





## Faculty Profile

### Dr. Mrs. Sushama. S. Pawar M.Sc., Ph.D.

- Assistant Professor and Head
- Sixteen years teaching experience
- Recognized Ph.D. guide in Zoology of BVDU, Pune
- Chairman: Board of studies in Life sciences, BVDU, Pune.
- Member: Meeting of Experts for preparation of Glossary of Environmental Science, Commission for Scientific and Technical Terminology MHRD, Department of Higher Education, Government of India, New Delhi. Organized by Smt. Meenalben Mehta Arts and Commerce and Science College, Panchgani on 6<sup>th</sup> June 2016 to 10<sup>th</sup> June 2016
- Member : Institutional Ethics Committee
- Life Member : Indian Aerobiological Society
- **Chaired** the plenary session in capacity of Resource Person in the National Seminar Environmental Issues And Biodiversity Lal Bahadur Shastri College of Arts, Science and Commerce, Satara, Maharashtra 24<sup>th</sup> - 25<sup>th</sup> January 2017

### Total Publications

Dr. Mrs. S. S. Pawar	Total Publications Till Date				'h' Index
	International	National	Seminars/ Conferences	Total	2
	10	06	03	20	
	Total Paper Presentations in Conferences				RG Score
	International	National	State	Total	1.92
	10	05	02	17	

### Ongoing Major Research Project

Sr.	Principal Investigator	Title	Agency	Period	Grant Released
1	Dr. Mrs. S. S. Pawar	Effect of Bacoside A on various organs of mouse during aging	UGC, New Delhi	31/3/2017 (With Extension)	12,80,800/-
Published papers :03 and Papers presented: 08 from MRP					

S.No.	Title of the Article/ Paper published	Title of Journal	Volume Pages, Year	ISSN/ ISBN No.	Impact Factor
1	Effect of testosterone propionate on glycoproteins from submandibular and sublingual glands of male mice.	Journal of Endocrinology and Reproduction (National)	Vol. 2, pp.54-68. 1998	0971-913X	Nil
2	Effect of Indomethacin on Brunners gland of duodenum.	Indian Journal of Comparative Animal Physiology (National)	Vol. 17 pp.40-51. 1999	0255-7150	Nil
3	Kinetics of amylase and trypsin in the salivary glands of senescent male mice.	Indian Journal of Gerontology (National)	Vol.13(3), pp.51-56. 2000	0971-4189	Nil
4	Hypoglycemic effect of sialodenectomy in mice.	Journal of Endocrinology and Reproduction (National)	Vol.5(2), pp. 51-56. 2001	0971-913X	Nil
5	Protective effect of <i>Lactuca sativa</i> on various regions of brain during aging.	Indian Journal of Gerontology (National)	Vol.16 pp. 3 – 4. 2002	0971-4189	Nil
6	Protective effect of <i>Hydrocotyl asiatica</i> extract on brain during aging.	Indian Journal of Comparative Animal Physiology (National)	Vol. 21(1), pp. 77-85. 2003	0255-7150	Nil
7	Effect of antitranspirants on germinating seeds of <i>Sorghum vulgare</i> L.	Asian Journal of Multidisciplinary Studies (International)	Volume 2, Issue 9, Pp 174-177, September 2014	2321-8819 (Online) 2348-7186 (Print)	1.498
8	Influence of HICO-110R on water relations, photosynthetic pigments, stomatal regulation and yield of groundnut under water stress condition.	International Journal Of Multifaceted And Multilingual Studies (International)	Volume-I, Issue-III, December 2014	2350-0476 (Online) 2394-207X (Print)	4.205
9	Determination and quantification of Bacoside A from <i>Bacopa monnieri</i> (L) by High Performance Thin Layer Chromatography.	International Journal of Pharmacognosy and Phytochemical Research (International)	Vol. 7 (5) pp. 1060-65. 2015	0975-4873	1.341
10	Determination of Extractive value and Phytochemical analysis of <i>Bacopa monnieri</i> (L).	Proceeding of State level seminar on Recent Advances in Life Sciences.	pp 71-76. 2015	978-93-84916-59-6	Nil
11	Comparative study of extractive values of the leaf, unripe and ripe fruit extracts of <i>Aegle marmelos</i> (L).	Proceeding of State level seminar on Recent Advances in Life Sciences.	pp 77-83. 2015	978-93-84916-59-6	Nil

12	Diversity of Bioactive Components of <i>Cullen Corylifolium</i> (L.) Medik.	Proceeding of National Conference on Biodiversity, Climatic Change and Sustainable Development.	pp 328-334. 2015	978-93-5235-969-1	Nil
13	Biodiversity of Mite Fauna in the Intramural Environment of Rat House at Pune.	International Journal of Life Sciences (International)	Special Issue A3, pp 11-17 2015	ISSN: 2320-7817 eISSN: 2320-964X.	Nil
14	Impact of Climate Change on the Dynamics of Rat House Dust Mites.	Asian Journal of Multidisciplinary Studies (International)	Vol. 4, Issue 3. pp 73-79. 2016	2321-8819 (Online) 2348-7186 (Print)	1.498
15	Effect of environment on seasonal dynamics of rat house mites at Pune	International Journal of Entomology Research	Volume 1; Issue 4; pp 26-32 May 2016	ISSN: 2455-4758	5.24
16	Study of Phytochemical Screening, Physicochemical Analysis and Antimicrobial Activity of <i>Bacopa monnieri</i> (L) Extracts	International Journal of Pharmaceutical and Clinical Research	Volume 8 Issue 8 pp 1222-1229 August 2016	ISSN- 0975 1556	1.668
17	Quantitative Evaluation of Plant Diversity from Newly reported Sacred Grooves (Devrais) in Pune District (Maharashtra)	Asian Journal of Multidisciplinary Studies (International)	Volume 4, Issue 10, pp 58-66 Sept 2016	2321-8819 (Online) 2348-7186 (Print)	1.498
18	FESEM and FTIR spectroscopic characterization of <i>Aegle marmelos</i> (L.) unripe fruit.	International Research Journal of Biological Sciences	Volume 6, Issue 1, pp 34-39, Jan, 2017	2278-3202	Nil
19	Determination of elemental and morphological properties of <i>Aegle marmelos</i> (L.) by FTIR and FESEM technique.	Research Journal of Recent Sciences (International)	Volume 6, Issue 2, pp 40-45, Feb 2017	2277-2502	Nil
20	Effect of Bacoside A on lipid peroxidation in D- galactose induced aging mice.	International Journal of Pharmacy and Pharmaceutical Sciences	Volume 9, Issue 9, Pp 12-15, Sept 2017	0975-1491	0.54

## Departmental Activities

### SEMINARS/ CONFERENCES/WORKSHOPS ORGANIZED & THE SOURCE OF FUNDING

S.No.	Acted as Convener Organising Secretary	Event Title	Funding Agency	Date
1	Organising Secretary Dr. Mrs. S. S. Pawar	National Seminar on Biodiversity: Conservation and Protection	University Grants Commission	13 <sup>th</sup> & 14 <sup>th</sup> March 2012
2	Organising Secretary Dr. Mrs. S. S. Pawar	One Day Workshop on ' Scientific Sketching and Labeling Skills' has been organized for B.Sc. students	Y. M. College BVDU, Pune	1 <sup>st</sup> Aug. 2015
3	Organising Secretary Dr. Mrs. S. S. Pawar	National Seminar on Current Trends in Biodiversity Conservation and Climate Change	University Grants Commission	24 <sup>th</sup> & 25 <sup>th</sup> Feb. 2016

# National Seminar on Biodiversity: Conservation and Protection - 13<sup>th</sup> & 14<sup>th</sup> March 2012

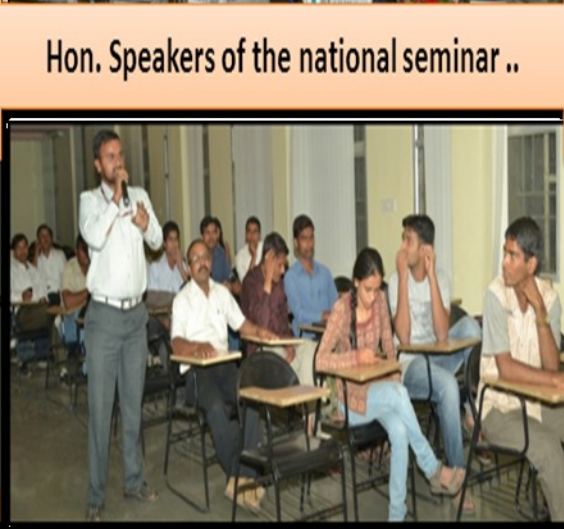


Enthralled audience.....

Inaugural function ...



Hon. Speakers of the national seminar ..





**National Seminar on Current Trends in Biodiversity Conservation and Climate Change**  
24<sup>th</sup> & 25<sup>th</sup> Feb. 2016



**Inaugural function ...**



**Hon. Speakers of the national seminar ..... Enthralled audience.....**  
**Paper presentation by the participant..... Distribution of certificates**







**Workshop on  
Scientific Sketching  
and Labeling Skills  
1<sup>st</sup> August 2015**

Overwhelming response by students



**Visit to  
Sericulture at  
Wai,  
Satara  
& Mahabaleshwar  
Year -2012**







Workshop on Sketching & Labeling Skills in Zoology



Well equipped laboratory



ICT based teaching



Visit at Wai sericulture center



### List of Eminent Academicians and Scientists / Visitors to the Department

S.No.	Dignitary's Name	Designation
1.	Prof.Prabhakar Ranjekar	Director, IRSHA, BVDU Pune.
2.	Dr. T. V. Sathe	Head Dept. of Zoology, Shivaji University, Kolhapur.
3.	Dr. Dilip Yardi	Member and Warden, Wild Life Board, Govt. of Maharashtra and Hon. Wild Life Warden, Aurangabad.
4.	Dr. R. M. Sharma	Scientist D, ZSI Section 29 Akurdi, Pune.
5.	Dr. K. S. Ramchandra Rao	Professor, Dept. of biotechnology Aurora's Technical Institute & Research Institute, Parvathatur, Uppal, Hyderabad.
6.	Dr. Erich Bharucha	Director, BVDU, Institute of Environment and Research, Pune.
7.	Hon. Prof. Manikrao M. Salunkhe	Vice Chancellor, Yashwantrao Chavan Maharashtra Open University, Nashik, Maharashtra
8.	Dr. Mahesh Shindikar	Assistant Professor, Dept. of Applied Sciences, College of Engineering, Pune, Member of MCZMA, Govt. of Maharashtra.
9.	Dr. V. B. Giri	Curator (Herpetology), National Center for Biological Sciences, Bangalore.
10.	Prof. Jagbir Singh Kirti	Head, Department of Zoology, Punjabi University, Patiala, Punjab.
11.	Dr. B. B. Nath	Professor & Former HoD, Department of Zoology, Coordinator-UGC Center for Advanced Studies, SPPU, Pune.
12.	Dr. D. B. Bastawade	Former Senior Scientist, Zoological Survey of India, Pune.
13.	Dr. S. S. Kharat	Principal, Modern College of Arts, Commerce and Science, Ganesh Khind, Pune.