

## **GLIMPES OF DEPARTMENT**

Department of Zoology is the pride of the University that had the earliest start in 1959. Prof. Syed Mehdi Ali transformed the department into hot land of research activities by introducing Helminthology as a special subject in addition to Fishery Science which was the only subject offered till then. Dr Ali has taken aggressive step of opening new avenues in Zoology while developing his own areas of interest. He dynamically built up a multi-disciplinary set-up by initiating three new fields of specializations viz. Animal Physiology, Entomology in 1965 and Protozoology in 1966.

The Dept of Zoology continued its lucky tryst with destiny as Dr. Ali was followed by another dynamic academician, Prof. R Nagabhushanam, who joined as Head in 1972 and opened new grounds in research, publications and made several curricular reforms. He initiated the formation of separate section for Invertebrate Endocrinology. The continuous progress of the department was responsible for the selection by the University Grants Commission under Special Assistance Programme for the thrust areas of Animal Physiology and Invertebrate Endocrinology. Special papers in Applied Parasitology were also introduced in the same period. Simultaneous research work in other specialized areas viz. Entomology, Protozoology, Fishery Science and various aspects of Helminthology were intensified in the regime of Prof. Nagabhushanam.

The progress propelled when Satellite campus of the department "Marine Research Laboratory" started in 1970 under PL 480 project of the office of the Naval Research, Washington, USA under the supervision of Prof. R. Nagabhushnam and continued receiving funds from funding agencies like DST, DOD, UGC and ICAR. Under the supervision of Prof. U. H Mane, who presently is the Director of ' Center Coastal Marine Biodiversity, made significant strides from small beginning to valuable contributions in marine field research.

In the view of continuous research contributions by the teachers of the Zoology department, the University Grants Commission, New Delhi, generously granted the establishment of Department "Marine Research Laboratory" at Ratnagiri during review the Special Assistance Programme during 1996. In 1998, the research laboratory was recognized as "Centre for Marine and Coastal Biodiversity" in the West Coast by Ministry of Environment and Forests, Government of India. The department, had a running start from its inception and progressed with such a force that it is difficult to harness the volatile speed. A department with highest number of research students; its teachers are

contributing at National and International level, majority with research publications at National and International level and now a lady, Dr. Mrs. Meena Patil, at the helm of the prestigious department, who is efficiently and effectively running the big show.

## **Courses offered in the Zoology Department for M.Sc. Student**

### **Semester- I**

Zoo-101 Biosystematics and Taxonomy

Zoo-102 Quantitative Biology and Computer Applications.

Zoo-103 General and Comparative Endocrinology.

Zoo- 104 Molecular cell Biology

LC -I Laboratory course based on Zoo 101 & Zoo 102

LC -II Laboratory course based on Zoo 103 & Zoo 104

### **Semester- II**

Zoo- 201 Population Genetics and Evolution

Zoo- 202 Gamete Biology

Zoo- 203 Techniques and Tools for Biology

Zoo- 204 Environment Physiology

LC -III Laboratory course based on Zoo 201 & Zoo 202

LC -IV Laboratory course based on Zoo 203 & Zoo 204

### **Semester- III (Stream A)**

Zoo- 301 Structure and Function of Invertebrates

Zoo- 302 Comparative Anatomy of Vertebrates

Zoo- 303 Population Ecology

Zoo- 304 Animal Behaviour

LC -V Laboratory course based on Zoo 301 A & Zoo 302 A

LC -VI Laboratory course based on Zoo 303 A & Zoo 304 A

### **Semester- IV (Stream A) Elective A -1**

Zoo- 401 A-I Protozoology

Zoo- 402 A-I Helminthology

Zoo- 403 A-I Insect Physiology

Zoo- 404 A-I Aquaculture and Fisheries

LC -VII A-I Laboratory course based on Zoo 401 A-I & Zoo 402 A-I

LC -IV Laboratory course based on Zoo 403 A-I & Zoo 404 A-I

### **Semester- IV (Stream A)**

Elective A - II

Zoo- 401 A-II Reproductive Physiology

Zoo- 402 A-II Biology of Parasitism

Zoo- 403 A-II Limnology and Biological Oceanography

Zoo-404 A-II Ichthyology

LC-VII A-I Laboratory course based on Zoo 401 A-II & Zoo 402 A-II

LC -IV Laboratory course based on Zoo 403 A-II & Zoo 404 A-II

## **Certificate & Diploma Courses**

The certificate and diploma courses are run by the department in the Marine Research Laboratory at Ratnagiri.

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### **AREAS OF RESEARCH**

- Animal Physiology, Neurobiology and Neuroendocrinology
- Limnology and Toxicology
- Biodiversity and Toxicology
- Applied Parasitology
- Aquaculture and Fisheries
- Molecular Taxonomy, Biotoxinology and Pharmacology
- Environmental Physiology

## **RESEARCH PROJECTS and FUNDING AGENCIES**

More than 23 Research Projects have been already completed and 7 Projects are in progress at

the moment and of over ten crores fund is utilized from following agencies:

1. UGC, NEW DELHI
2. DST, NEW DELHI
3. DBT, NEW DELHI
4. CSIR, NEW DELHI
5. STATE GOVT MAHARASHTRA
6. MINISTRY OF ENVIRONMENT AND FORESTRY, NEW DELHI
7. PL-480, U S A
8. INCOIS, New Delhi
9. DST-FIST

## **NUMBER OF RESEARCH PUBLICATIONS**

- About 756 research papers have been published.

## **NUMBER OF NATIONAL AND INTERNATIONAL CONFERENCES, SEMINARS ORGANIZED**

- About 20 National and International Conferences, Seminars, Workshops have been organized in the department so far.

## **ALUMNI**

- Several past students are successfully working as Scientists/Professors in various National Institutes and Ministry like CSIR, ICAR, ZSI, Ministry of Agriculture, Ministry of Environment and Forests.
- Many students are working in various foreign countries like USA, UK, Australia, New Zealand etc.

## **AWARD RECIPIENTS**

A) Prof. R Nagabhushnam

- Recipient of 'Ideal Teacher Award' from Govt of Maharashtra

B) Dr. (Mrs.) Meena Patil

- Recipient of Woman of the Year 2001: Nominated by American Biographical Research Institute, USA
- Recipient of 'Young Scientist Project, DST, New Delhi.

C) Dr. Baba Jadhav

- Prof G.D.Bhalerao Gold Medal– ZSI
- Dr. Ambedkar Fellowship and Gold Medal– Akhil Bhartiya Dalit Sahitya Academy New Delhi
- Dr.B.P.Pandey Memorial Oration Award

D) Dr. G. D. Khedkar

- Recipient of 'Young Scientist fast tract project', DST, New Delhi.
- Recipient of 'Young Scientist Award', ZSI.

## **VISITS OF THE DISTINGUISHED PERSONS TO THE DEPARTMENT**

1. Dr. Bouchard Chassard France 1974
2. Dr. Mitsuhari Miyawaki Japan 1974
3. Dr. P. Noel France 1974 and 1980
4. Dr. Ruth Turner U.S.A. 1975
5. Dr. Kobayashi Japan 1975

6. Dr. S.P.Modak Pune 1982
7. Dr.J.P.Thaplial Varanasi 1982
8. Dr.S.Z.Qasim New Delhi 1984
9. Dr. Muller England 1985
10. Dr.(Mrs.) S.Tirmizi Pakistan 1989
11. Dr. Milton. Fingerman U.S.A. 1990
12. Dr. Mary Thompson U.S.A. 1991
13. Dr. B. Joharnac U.S.A. 1991
14. Dr. R. Rammurthy Tirupati 1998
15. Dr. T.J. Pandian Madurai 1999  
(National Professor)
16. Dr. S.K. Saidapur Dharwad 2000  
(Bhatnagar Awardee)

### **Prize / Medals instituted**

- 1 “Prof. R. Nagabhushnam Gold Medal” instituted by his former Ph.D. students for securing the highest number of marks amongst the successful candidates at M.Sc. Zoology Examination.
- 2 “Dr. G. B. Shinde Gold Medal” instituted by his former Ph.D. students for securing the highest number of marks in Helminthology at M.Sc. 1<sup>st</sup> Zoology, who stood first in M.Sc. Part II<sup>nd</sup> Zoology Examination for amongst the students of the department.
- 3 “Dr. R. Nagabhushnam Paritoshak” instituted by the staff of the Department of Zoology , Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for securing the highest number of marks and stood first at M.Sc. Zoology Examination.
- 4 “Govindrao Rajaram Bhutte Prize” instituted by Dr. J. G. Butte for securing the highest number of marks in Entomology at the M.Sc. Zoology Examination Part II.
- 5 “Syed Mehedi Ali Memorial Prize” instituted by Dr. G. B. Shinde for securing the highest number of marks in Helminthology at the M.Sc. 1<sup>st</sup> year Examination and secured first division at M.Sc. Zoology Examination.
- 6 “Dr. R. Krishnamurthy Parithoshak” instituted by his former Ph.D. students for securing the highest number of marks and stood first in M.Sc. Zoology Examination.

## **Dr.(Mrs.)Meena Umakant Patil**

1. **Name :** Dr.(Mrs.) Meena Umakant Patil
2. **Designation :** Professor and Head
3. **Qualification :** M. Sc.Ph. D.
4. **Address (Resi.) :** 69, Srisai, Jyotinagar, Aurangabad.  
**Phone No. (Resi) :** (0240)  
**Mobile No. :** 9822879080  
**Email-:** patil4590@rediffmail.com
5. **Teaching Experience:** 24 Years
6. **Administrative Experience:** 8 Years as hostel warden, Senate member; CUD committee member, Grievance committee member, Election committee member etc.
7. **Research Publications :** Papers & Book :papers-58/books2
8. **Research Student Guided :** Research student guided
  1. M. Phil.: 1
  2. Ph. D. : 11
9. **Research Projects Undertaken:**
  1. Title : Six
  2. Agency : UGC, DST, LCAR
  3. Major / Minor : Two major and 4 minor.
  4. Duration : 3 to 5 years
10. **Seminar & Conferences attended:** 0;National-30,International-12  
International :  
National :  
State :

- 11. Visits Abroad :** Participant to INDO-US marine Naval research Programme 1987, International conferences, short trainings, at America, Singapore, Australia Hong Kong, Thailand, Japan, Canada,
- 12. Awards & Honors :** Woman of the Year-2001, US; Best Teachers Award, Rotary Club, 2003; Interview for Australian Broadcasting Corporation Sydney, Australia, 1996.
- 13. Extra Curricular Activities (Max. 100 words):** Member of Academic Committees of this University and other Universities, Member on Editorial Board, Life member of Six National Academic Research Bodies, Life member of two International Research Academic Society, Member of & SAAC, Maharashtra
- 14. Any others :**

Member of Statues and Ordinance Committee, Chairperson of 'Prevention and Redressal committee for Sexual harassments at Work place, Member of ' Women Study Center', Member of Women welfare Cell.