

## DEPARTMENT OF ZOOLOGY (U.G.)

### DEPARTMENTAL PROFILE

#### 1. Faculty profile - adequacy and competency of faculty.

Department of Zoology has two permanent faculty members as Associate Professors. Previously Principal Dr. G.P. Patil was heading the department. Apart from two permanent faculty members, recently the college has appointed 3 contributory teachers because of the vacancy created due to appointment of its head Dr. G.P. Patil as Principal of the college. The department has a recognized laboratory to undertake research. All the faculty members are actively involved in research activities.

Sr. No.	Name of faculty	Qualification	Designation	Experience
1	Dr. G.P. Patil	M.Sc.,M.Phil.,Ph.D.	Principal	UG-28,PG-09
2	Prof.A.M. Avinash	M.Sc.,M.Phil.	Head & Associate Professor	UG-26,PG-04
3	Dr. R.A. Gulhane	M.Sc.,M.Phil.,Ph.D.	Associate Professor	UG-22,PG-04
4	Dr.Ms.S.M.Mantri	M.Sc.,Ph.D.	CHB	UG-02
5	Ms.Y.M.Sadhwani	M.Sc.,B.Ed.	CHB	UG-01,PG-05
6	Mr.T.G.Deshmukh	M.Sc.,B.Ed.	CHB	UG-01,PG-01

- No. of post sanctioned – 03
- No. of post vacant – 01\*

\*Three teachers have been appointed clock hour basis to counter this vacancy.

#### 2. Student profile – entry level competencies, socioeconomic status, language proficiency etc.,

Students are admitted to B.Sc. programme after passing H.S.S.C. board examination with biology as one of the subjects. Students are admitted to the degree course regardless of caste, creed, religion & region. Department offers UGC sponsored career oriented certificate course “Vermiculture”.

In 2009-10 Miss. Nikita Thakare, student of B.Sc. (Bio) has acquired 6<sup>th</sup> rank in University merit list. Apart from imparting knowledge in Zoology, the department provides the special attention towards students to improve language proficiency.

#### 3. Changes made in the courses or programmes during the past two years and the contribution of the faculty to those changes.

The syllabi of B.Sc. Zoology have undergone complete revision during last few years. The semester pattern syllabus was introduced by university 2009-10.

**4. Trends in the success and drop out rates of students during the past two years.**

Student's success rate for last two years:

Sr. No.	Year	Success rate	No. in first division	Merit rank
1	2009-10	93.55%	06	6 <sup>TH</sup>
2	2010-11	95.65%	06	NIL

**Achievement:** Ms. Nikita Thakare stood 6<sup>th</sup> rank in the merit list of B.Sc. for the year 2009-10.

Drop out rate of 2010-11: 1.56%

**5. Learning resources of the departments - library, computers, laboratories and other resources.**

The department has adequate library facility with several titles of multiple copies of authors like Balinsky, Cooper, Laudish, Levis, Watson & Crick, Guyton & Hall, Lehninger, Bijalani, Paul Welch, Strickberger, Sherwood, Snustad, Gilbert & also the books of Physiology, Microbiology, Molecular Biology, Biochemistry, Biophysics, Genetics, Ichthyology, Fisheries & Medical Physiology etc. of various authors to enrich knowledge of staff & students. Apart from this the department also provides relevant topics through the CDs & internet.

**Laboratory & other sources:** Department has well equipped laboratory which makes teaching and learning enjoyable. Head of institution also encourages the faculty members for various training opportunities at different places in India. The department has a recognized research laboratory to undertake doctoral research. Numbers of research scholar are actively engaged in the research activities.

**6. Modern teaching methods practiced and use of ICT in teaching – learning.**

**Learning:** The staff members use modern teaching method along with lecture method. The demonstration of slides (histological & anatomical) on TV monitor, LCD projector via digital camera attached to micro scope. By this method students are exactly visualize the structure of particular slides. Due to such activity students also prepare the excellent slides & improve their practical skills. The demonstration of dissections enable student to understand intricacies of the process. Apart from this

the faculty members regularly use ICT tools for effective teaching. Study tours, students seminars, group discussions are regularly conducted to enhance quality of teaching & learning. The department has an active internet connection for downloading resource material of course study.

**7. Participation of teachers in academic and personal counseling of students.**

Faculty members of the department are motivated to take part in the academic activities. Like science exhibition, seminars competition, study tours, model preparations, science debate competition, etc.

Other than this student are also motivated for animal collection, wild life photo collection.

**8. Details of faculty development programmes and teachers who have been benefited during the past two years.**

The college management always supports faculty development by extending all sort of help like leaves, financial supports etc. One of the faculty members Mr. A.M. Avinash has worked as research scholar in the department & submitted his Ph.D. thesis for evaluation. The faculty members have attended number of conferences, workshops, seminars etc. during last two years to enrich their knowledge.

**9. Participation / contribution of teachers to the academic activities including teaching, consultancy and research.**

Faculties of department are constantly updating their knowledge by engaging themselves in research activities. As a result of their academic activity Dr. R.A. Gulhane have pursued his Ph.D. and Prof. A.M. Avinash presently working on minor research project which is sponsored by UGC & submitted his their Ph.D. thesis to S.G.B. Amravati University Amravati recently. The department has also organized a National conference on **“Recent Advances in Environmental Biology & Biodiversity”** on February 3<sup>rd</sup> & 4<sup>th</sup> -2011. The department also shared in organization of state level symposium on **“Women’s Role in Conservation of Environment.”** on 30<sup>th</sup> December 2009.

The faculty members have also participated in various conferences, workshops & seminars organized by different academic institutions. The college has extended financial help & other facilities to enrich their knowledge.

#### **Participation of faculty members in different academic activities.**

**Dr. G.P. Patil :**

##### **Conferences :**

1. XI Annual Conference of AISCAP & the AISCAPEI. Dept. of Zoology, Nagpur University, Nagpur, 29-31, January 1989.
2. 81<sup>st</sup> Session of the Indian Science Congress. Jaipur (Rajsthan), 03-08, January 1994.
3. 83<sup>rd</sup> Session of the Indian Science Congress. Patiala (Punjab), 03-08, January 1996.
4. 84<sup>th</sup> Session of the Indian Science Congress. New Delhi, 03-07, January 1997.
5. 85<sup>th</sup> Session of the Indian Science Congress. Osmania University Hyderabad, 03-07 January 1998.
6. Regional Level Conference on "Impact of Nomadic Tribe on Environment". 4<sup>th</sup> - 6<sup>th</sup> February 2000.
7. 88<sup>th</sup> session of the Indian Science Congress Association. New Delhi, 03-07 Jan. 2001.
8. 92<sup>nd</sup> Session of the Indian Science Congress Association, Nirma University of Science & technology, Ahemadabad (Gujarat) 03-07 January 2005.
9. Conservation Assessment & Management Plan work (C. A.M.R) Workshop for Reptiles of India. Coimbatore (T.N.), 19-23, May 1997.
10. National conference-cum-workshop on wetland conservation problems, prospects and challenges in next millennium R.A.College Washim (M.S.) 23-25 October 1999.
11. UGC State level Academic conference on Agricultural Development in Vidarhha. Mungsaji Maharaj Mahavidyalaya, Darwha, 5th December 1999.
12. International conference on probing in Biological systems. Dept of Zoology, Institute of Science, Mumbai 07-11 February 2000.
13. Conference on Co-op Consumer Society 2000. Maharashtra State Co-op. Consumer fedration, Mumbai 30 August 2000.

14. 22<sup>nd</sup> Annual conference on higher education for generation next V.G. Vaze college, Mumbai, 29-30 December 2001.
15. National Conference on Management innovations for conservation of fresh water resources, forests & wild life with special emphasis on tribal areas. G.S.G Mahavidyalaya, Umardhed Distt-Yevatmal 02-03 December 2002.
16. National Conference on "Emerging pollutants : Impact on Health, Agriculture and Environment". Department of Environmental Science, Dr.B.A.M. University, Aurangabad, 29-31 January 2004.
17. National conference on 'Fish and their Environment' Department of Zoology, Dr.B.A.M. University, Aurangabad, 09-11 February 2004.
18. Regional Level Conference on "Impact of Nomadic Tribe on Environment". S.S.S.K.R. Innani MV, Karanja (Lad) Dist. Washim (M.S.), 4<sup>th</sup>-6<sup>th</sup> Feb. 2005.
19. International Conference in Zoology (INCOZ - 2006). Dept. of Zoology, Bangalore University, Bangalore, 19-22 November 2006.
20. National Conference on modern approaches & innovations in biotechnology & biodiversity conservation. Dept of Biotechnology & biological sciences, Shri Shivaji Science College, Amravati, 28-30 January 2007.
21. 12<sup>th</sup> World lake conference. Birla Auditorium,Jaipur,Rajsthan, 28 Oct.-02 Nov.2007.
22. International conference on Recent trends in Biodiversity and Biotechnology (RTBB-2007). Dept. of Zoology, Dr.B.A.M. University, Aurangabad [M.S.], 15-17 November 2007.
23. National conference on Plants: Biology to Biotechnology. Yeshwant Mahavidyalaya, Nanded [MS.], 23-24 February 2008.
24. Hands-on training on "Techniques in Molecular Biology & Bioinformatics". Codon Life Sciences, Panji - Goa, 4<sup>th</sup> - 8<sup>th</sup> June 2008.
25. International conference on "English Language & Literature Today" at V.B.M.V. Amravati; 12-13 November 2009. (Jointly organized).
26. International Conference on "Advances in Bio-Sciences: From Darwin to Dolly and Beyond. 12<sup>th</sup> - 14<sup>th</sup> February 2009.
27. International Conference on "English Language & Literature Today (ICELLT, 09), Vidya Bharati College, Amravati (M.S.) 12<sup>th</sup> - 13<sup>th</sup> November 2009.

28. National Conference on "Climate Change and Challenges in Biodiversity Conservation", Fergusson College, Pune. 11<sup>th</sup> - 12<sup>th</sup> December 2009.
29. WRCE-2009 - "Women's Role in Conservation of Environment". S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad), 30<sup>th</sup> December 2009.
30. International Interdisciplinary conference on "The Relevance and Impact of Dr. Ambedkar's Thought in the Present Age", 27<sup>th</sup> & 28<sup>th</sup> August 2011.

**Workshops :**

1. University level workshop of NSS, 25 September 2001.
2. University level workshop of NSS, 26-27 November 2004.
3. National level workshop on "Information Literacy", 27 November 2009.
4. One day workshop on "Semester Pattern Implementation" 29 September 2010.
5. National level conference on "Vartman Sandarbhat Sant Sahityachi Prabodhan Kshamata", 3-4 February 2011.
6. National level conference on "Recent Advances in Environmental Biology and Biodiversity", 3-4 February 2011.
7. National level conference on "Global Financial Crunch and India's Economic Growth", 3-4 February 2011.
8. National level conference on "Impact of Global Recession on Indian Economy", 3-4 February 2011.
9. University level Workshop on "Marathi Syllabus", 28 July 2011.
10. Workshop on Student welfare education. Smt. Radhabai Sarda Mahavidyalaya, Anjangaon Surji Distt-Amravati, 27 February 2000.
11. Workshop on NAAC. Mungsaji Maharaj Mahavidyalaya, Darwha Distt-Yevatmal, 11 October 2002.
12. Regional level workshop on Curriculum designing in Botany & Zoology with special reference to UGC's guidelines. Jijamata MV, Buldhana, 02 February 2003.
13. Regional workshop on conservation and management of lakes\* LA.A.B. Hyderabad, 22-23 April 2005.
14. UGC Workshop on schemes of coaching classes for welfare of SC/ST's. University of Pune 25 May 2007.
15. Workshop on Information Literacy, S.S.S.K.R.Innani Mahavidyalaya, Karanja (Lad) (M.S.) 27<sup>th</sup> November, 2009.

16. State Level Workshop on "Accreditation: Systematic Approach Towards Report Writing Under New Methodology" Shri. Shivaji College, Amravati. 2<sup>nd</sup>-3<sup>rd</sup> Jan. 10.
17. Workshop on "Total Solar Eclipse". S.G.B. Amravati University, Amravati. 13<sup>th</sup> - 14<sup>th</sup> June, 2010.
18. One day workshop on "Various Problems before Management & Administration and their solutions" at Smt. K.L.M.V. Amravati. 16<sup>th</sup> August 2011.

**Symposia :**

1. National symposium on Eco-environmental impact & organism response. Government Vidarbha Mahavidyalaya, Amravati, 1994.
2. National symposium on Recent Advances in Biosciences, M.D.S. University, Rohtak, (Haryana), 03-08, November 1995.
3. National Symposium on Environment & Health. Dept. of Environmental Science, Ch. Charan Singh University, Meerut, 19-21, October, 1997.
4. 19<sup>th</sup> Annual session of Academy of Environmental Biology and Symposium on Biomonitoring & Ecoconservation, Bareilly College Bareilly (U.P.), 14-16 November 1998.
5. V<sup>th</sup> South Asian Symposium on Odonatology. Science College Nagpur 20-21 December, 1998.
6. National Symposium on Ecophysiology and Conservation. The Institute of Science, Mumbai, 03-11 January 1999.
7. National symposium on Current trends in comparative endocrinology impact of molecular biology & Biotechnology. Dept. of Zoology, Nagpur University Campus Nagpur 27-29 November 2003.
8. VII South Asian symposium on odonatology and recent trends in Zoology, Dept. of Zoology, Hislop College, Nagpur, 09-11 January 2006.
9. The 18th International Symposium of Odonatology Hislop College, Nagpur, India., 5<sup>th</sup> - 9<sup>th</sup> November 2008.
10. International Symposium on Environmental Pollution, Ecology & Human Health., S.V. University Tirupathi (A.P.) 25<sup>th</sup> - 27<sup>th</sup> July 2009.
11. Interdisciplinary State Level Symposium on "Women's Role in Conservation of Environment". 30<sup>th</sup> December 2009.

**Seminars :**

1. Inter-collegiate seminar competition organized on various subjects on dated 3 January 2007.
2. National Seminar on the freshwater eco-system in and around urban area its management and aquaculture in new millennium. Dept of Zoology, Govt. Post Graduate College, Khargoan (MR) 13-14 April 2000.
3. State level seminar on Financing higher education : Exploring alternatives. V.G. Vaze College of Arts, Science and Commerce, Mumbai, 15 September 2001.
4. National seminar on Information technology revolution and human resource management Dept of management studies, Vidya Bharti Mahavidyalaya, Amravati, 11-12 January 2002.
5. National Seminar on Relevance of Biosphere reserve, National parks and Sanctuaries (Protected habitats) in present context, Gurukula Kangri University, Haridwar (Uttaranchal) 25-26 May 2002.
6. National Seminar on "Environmental management and its impact on National development" Birla College, Kalyan (MS.) & Society of Science and Environment, 2004.

**Minor Research Project :**

1. Bioremediation of Rishi lake, Karanja(lad) District- Washirn (MS.).  
[F.No. 47 -292 704] Submitted to WRO-UGC, Pune.

**Major Research Project (Applied) :**

1. "Culture and seed Production of *Clarias batrachus*".

**Prof. A.M. Avinash:**

**Conferences:**

1. National conference on Wetland Conservation held on Oct. 23 to 25, 1999, at P.G. Department of Zoology, R.A. Arts, M.K. Commerce, & S.R. Rathi Science college, Washim-444 505.
2. Regional level conference on "Impact of Nomadic Tribe on Environment" at S.S.S.K.R. Innani Mv. Karanja (lad), Dist. Washim on 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> Feb.2005.
3. INTERNATIONAL CONFERENCE ON Recent Trends in Biodiversity & biotechnology on Nov. 15 to 17, 2007, organized by dept. of Zoology, DR. BABASAHEB



AMBEDKAR MARATH WADA UNIVERSITY, AURANGABAD ON GOLDEN JUBLEE CELEBRATION YEAR.

4. INTERNATIONAL CONFERENCE ON ADVANCES IN BIOSCIENCES FROM DARWIN TO DOLLY & BEYOND. On Feb. 12 to 14, 2009, Organized by Dept. of Zoology, Yeshwant Mv.,Nanded.
5. UGC Sponsored National Conference on "Climate Change & Challenges in Biodiversity Conservation" organized by Dept. of Zoology, Fergusson college, Pune, on Dec. 11-12, 2009.
6. National Level Conference on Recent Advances in Environmental Biology and Biodiversity, 3-4 Feb 2011 S.S.S.K.R. mv. Karanja (Lad).

**Workshops :**

1. Regional Level Workshop on CURRICULUM DESIGNING IN BOTANY & ZOOLOGY with special reference to UGC's guidelines organized at JIGMATA MAHVIDYALAYA, BULDHANA, On Feb. 02, 2003.
2. Regional workshop on CONSERVATION AND MANAGEMENT OF LAKES On April 22 to 23, 2005, by Indian Association of Aquatic Biologist (IAAB), Hyderabad (A.P.) INDIA & South Asia Network on Lakes & Reservoirs.
3. The Solar Eclipse-09 Workshop Organized at Dept. of Mathematics sponsored by SGB Amravati University , Amravati & UGC, New Delhi in technical collaboration with S.P.A.C.E., New Delhi, on June 13-14, 2009.
4. Workshop on SEMESTER PATTERN IMPLIMENTATION organized by S.S.S.K.R.Innani Mv. Karanja (lad), Dist.- Washim with SGB Amravati University Amravati on Sept. 29<sup>th</sup>, 2010.
5. UGC-Sponsored Regional Level One Day Workshop on PERFORMANCE BASED APPRAISAL SYSTEM (PBAS) on April 21<sup>st</sup> 2011, organized by Brijlal Biyani Science College, Amravati.

**Symposia :**

1. National symposium on Eco-Environmental Impact & Organization Response held on Nov. 15,16 & 17, 1994, P.G. Department of Zoology & Botany, Govt. Vidarbha Mahavidyalaya, Amravati (M.S.)
2. VII SOUTH ASIAN SYMPOSIUM ON ODONTOLOGY & RECENT TRENDS IN ZOOLOGY Organized by South Asian Council of Odontology Affiliated to

International Foundation department of Zoology HISLOP COLLEGE, Nagpur jointly, on Jan. 9-11,2006.

3. The 18<sup>th</sup> International Symposium on Odontology Organized by International Odontological Foundation S.I.O. South Asian Council of Odontology & Hislop College Nagpur,India, on 5<sup>th</sup> to 9<sup>th</sup>, 2008.
4. UGC-CPE Sponsored National INTERDISCIPLINARY STATE LEVELS SYMPOSIUM ON , Woman Role in Conservation of Environment, Organized by S.S.S.K.R.Innani Mv. Karanja (lad), Dist.- Washim, on Dec.30<sup>th</sup> 2009.

**Seminars :**

1. MODERN APPROCHES & INNOVATIONS IN BIOTECHNOLOGY & BIODIVERSITY CONSERVATION Organized by dept. of Biotechnology & Biological Sciences, Shri. Shivaji College, Amravati. On Jan.28 to 30,2007.
2. University Level Seminar on 'Career Opportunities in Clinical Researches' organized by Nexus Clinical Research Institute, New Delhi & Dept. of Zoology & Botany, Vidyabharti Mv., Amravati on Dec. 04,2007.
3. UGC,DRDO & SGB AMRAVATI UNIVERSITY , AMRAVATI SPONSORED STATE LEVEL SEMINAR ON RECENT TRENDS ON TEACHING BASIC & APPLIED SCIENCES Organized by P.N. Mv. In Collaboration with Babasaheb Naik College of Engineering, on Jan 3<sup>rd</sup>2009.

**Minor Research Project :**

1. Selenium Toxicity in Edible Fish *Channa punctatus* (Bloch), Sanctioned by UGC, New Delhi.

**Dr.R.A. Gulhane :**

**Abstracts:**

1. Histomorphology of the pituitary glands in the Indian Garden lizard *Calotes versicolor* (Daudin)
2. Toxic influence on Reproductive Biology of the crab *Paratelphusa jacquemontii*.
3. Pesticide induled alterations in the digestive enzymes of the crab *Paratelphusa jacquemontii*. (Rathbun)

4. Impact of endosulfan and cythion on Gunadel proteins of freshwater crab, *Paratelphusa jacquemontii* during different season.
5. Physiochemical parameters of Erai Dam Dist:- Chandrapur international conference 'Advances in Biosciences from Darwin to Dolly and Beyond Feb- 12-14-2009. Yeshwant Mahavidyalaya Nanded.
6. Study on aquatic Bug's and their diversity in the Waghadi Dam Yavatmal, Maharashtra. National conference on Recent Advances in environmental and biodiversity 3-4- Feb-11. S.S.S.K.R.I. MV. Karanja (Lad)

**Conferences :**

1. National Conference cum workshop – wetland Conservation R.A. College Washim- 23 to 25 1991.
2. National conference on 'management innovations for conservation of fresh water resources forests and wildlife with special emphasis on tribal areas G.S.Gawande mahavidyalaya – Umarkhed.
3. National colorable on 'Rural tourism, environment and Development Both sept. 02. oct. 2005 Bhartiya Mahavidyalaya, Amravati.
4. Biotechnology and conservation of Natural Resources 11-12 Jan 08 Organized by P.G. Dept. of Zoology G.S. Gawande Mahavidyalaya, Umerkhed.
5. "Women's Role in conservation of environment". 30<sup>th</sup> Dec. 2009. S.S.S.K.R. MV. Karanja (Lad).
6. U.G.C. Sponsered National Conference on climate change and challenges in Biosciences Uni. 11 & 12 Dec. – 2009 Dept. of Zoology Fergusson college Pune.
7. Advances in Biosciences :- From Darwin to Dolly and Beyond yashwant Mahavidyalaya Nanded. 12 -14 Feb. 2009
8. National conference on Recent Advances in Environment Biology and Biodiversity. 3-4 Feb. 2011 S.S.S.K.R. mv. Karanja (Lad).

**Workshops :**

1. Total solar eclipse- 09 Workshop during 13-14 June 2009 Sant Gadge Baba Amravati Uni. Amravati.
2. Regional level workshop on curriculum designing in Botany and Zoology Jijamata Mahavidylaya Buldhana. 2 Feb. 2003.

3. Workshop on constraints in teaching of New UGC syllabi in Zoology and Microbiology at level. Shri. Shivaji science college Chikhali Buldhana.
4. Workshop on Research Methodology- 19.08.2009 R.A. College, Washim.

**Symposia :**

1. All India symposium on comparative endocrinology-P.G. Dept. of Zoology Nagpur Uni. Nagpur-23-25 Jan 1988.
2. National symposium 'Eco environmental impact and organism response- P.G. Dept. of Zoology, V.M.V. College Amravati- 15,16,17 Oct 1991

**Seminars:**

1. National seminar on 'Biodiversity of Lonar crater' 27<sup>th</sup> & 28 feb. 2004 Late Ms. Durga K. Banmeru Science College Lonar Dist. Buldhana.
2. One day National seminar on modern trends in Aquatic Biology – 15 May 2011 – S.B. College of science Aurangabad.

**Ms. Y.M. Sadhwani:**

**Conferences:**

1. National Level Conference on Recent Advances in Environmental Biology & Biodiversity, Sponsored by UGC, on Feb. 3-4, 2011 at S.S.S.K.R.Innani Mv. Karanja (lad) Dist. Wahim.

**Mr. Tushar G. Deshmukh :**

**Conferences:**

1. National Level Conference on Recent Advances in Environmental Biology & Biodiversity, Sponsored by UGC, on Feb. 3-4, 2011 at S.S.S.K.R.Innani Mv. Karanja (lad) Dist. Wahim.

**10. Collaboration with other departments/ institutions, at the State, National and International levels, and their outcome during the past two years.**

- N.E.S. Science College, Nanded.
- P.G. Department of Zoology, Hislop College, Nagpur.
- P.N. College, Pusad.

**11. Priority areas for Research and details of the ongoing projects, important and noteworthy publications of the faculty, during past two years.**

- i) Animal Physiology
- ii) Limnological Studies
- iii) Toxicology
- iv) Fisheries

List of research projects (ongoing/completed) carried out in the department:

Sr. No.	Title of Research project	Name of Research scholar	Name of Research Guide	Status
1	"Studies on the Biodiversity and Physico-chemical status of Rishi lake, Karanja(lad) M.S."	Dr. G.T. Kedar	Dr. G.P.Patil	Awarded
2	"Some studies on Ecology and Diversity of Fresh Water Fishes in the two Rivers of Vidarbha Region of Maharashtra (India)"	Dr.Nilesh Heda	Dr.K.M.Kulkarni	Awarded
3	"Some Limnological Aspects of The Ambona Lake".	Dr. D.V.Tayade	Dr.K.M.Kulkarni	Awarded
4	"Nutrient dependent hydrobiological status of Yedshi lake, Tq. Mangrulpir, Dist. Washim M.S."	Dr. S.M. Yeole	Dr. G.P.Patil	Awarded
5	Ecological Status Of Freshwater Lake Mohgavan Karanja (lad) dist. Washim with reference to Pisciculture.	Ms.Sweta Bhongade	Dr. G.P.Patil	Completed
6	Studies on the Breeding Behavior of Asian Catfish, <i>Clarias batrachus</i> in Vidarbha Region of Maharashtra.	Mr. R.L. Kale	Dr. G.P.Patil	Submitted
7	Nutrient Dependent Seasonal Zooplankton Biodiversity Of Three Lentic Water Bodies Of Southern Vidarbha Region Maharashtra.	Ms. R.M. Yewale	Dr. G.P.Patil	Submitted
8	Evaluation of toxic Effect of Selenium Salt of The Freshwater Fish <i>Channa punctatus</i> .	Mr. A.M. Avinashe	Dr. G.P.Patil	Submitted
9	Evaluation of Selenium toxicity on Histopathology & Biochemical Parameter Of Freshwater Edible Fish <i>Channa punctatus</i> . (Minor Project)	Mr. A.M. Avinashe	-	In Progress
10	"Fish and Fish Diseases of Lotic and Lentic systems of Washim District (M.S.)".	Mr. Sunil O. Rathod	Dr. G.P.Patil	In Progress
11	"Limnological studies of Sam-Both lake Tq. Mangrulpir Dist. Washim Maharashtra".(M.Phil. Dissertation).	Ms. R.M. Yewale	Dr. G.P.Patil	Completed
12	"Limnological studies of Shaha lake Tq. Karanja (Lad) Dist. Washim (Maharashtra)". (M.Phil. Dissertation).	Miss. P. A. Ingole	Dr. G.P.Patil	Completed

**LIST OF THE PUBLICATIONS :**

**Name of faculty member : Dr.G.P.Patil**

**I) International Level Research Publications :**

1. S.M.Yeole, G.P.Patil & G.T. Kedar: Zooplankton biodiversity of Yedshi lake, Maharashtra. Journal of Ecobiology, Vol. 26(1) p.p. 165-170, 2010.

**II) National Level Research Publications :**

1. G.P.Patil & S.M.Yeole : Zooplankton abundance studies of two freshwater habitats to assess ecological status. Hislop Journal 3(1), 33-40, 2010.
2. G.P.Patil , R.M.Yewale & D.R.Halwe : Limnological studies of Sarsi-both Lake, Dist. Washim (M.S.), India, Hislopia Journal 3(2), 169-175, 2010.
3. S.M.Yeole, G.P.Patil & G.T.Kedar : Zooplankton biodiversity of Yedashi Lake, Maharashtra Journal of Ecobiology Vol. 26(1), 165-170, 2010.

**III) Books :**

1. A Textbook of Rabbit, Balaji Publication Amravati.  
(R.R.Dhande, G.N.Wankhade & G.P.Patil)

**Name of faculty member : Mr. A.M.Avinashe**

**Paper Published:**

1. Comparative physiology & ecology (An international Jour. Of Biological Sciences). Histophysiological changes in the thyroid gland during various stages of pregnancy in the rat , *Rattus narbadae*.

**Article :**

1. "Maintain your vital force to keep healthy", college magazine 'Darpan-2011'.

**Name of faculty member : Dr.R.A.Gulhane**

**Research paper:**

1. Study of an aquatic Bugs and their diversity in the Waghadi DAM Yavatmal- Maharashtra P. P. Joshi, K. M. Kulkarni and R.A. Gulhane.

**Books:**

1. Text book of Life and diversity of animal (chordates) ISBN No- 81-89002-00-07 Shivneri publishers and distributors Amravati. By Dr. S.S. Deshpande, Dr. G.N. Vankhade, Mrs. L.S. Tasare, Dr. P.S. Watane, Dr. R.A. Gulhane, Dr. R.B. Deshmukh, Mr. A.K. Patki, Dr.Mrs. U.S. Deshmukh
2. A Text book of evolution- Sanket publication By- Dr. Dabhade D.S. Dr. Charian A.P. Dr. Raja I.A. Dr. Gulhane R.A., Patki A.K. Dr. Patil P.S.

**Name of faculty member : Ms. Y.M.Sadhawani**

**Research Paper:**

1. Analysis of Limnological Parameters of Shaha Lake, Karanja (Iad) Dist.Washim. (M.S.). Hislopia Jour. ISSN 0976-2124.
2. Zooplankton Diversity in Relation to Physicochemical Factors of Mohagavhan Lake, Karanja (Iad), Dist. Washim. Indian Jour. of Environmental Sciences. ISSN 0971-8958 (In Press).

**12. Placement record of the past students and the contribution of the department to aid student placements.**

Majority of the students who have passed B.Sc. from this institute have opted for higher studies. Following is the data of placement of past students available with our department.

Sr.No.	Name of students	Details of placements
1	Mr. Chandu Shekuwale	Jr. College teacher as at Shahabano Urdu Jr. College, Patur
2	Mr. Mangesh Dagwal	Assistant Professor at Sarda College, Anjangaon Surji.
3	Mr. Satish Kurhekar	District Judge.
4	Mr. Kishor Puri	Associate Professor at Shivaji College, Akola.
5	Mr. N.D.Gawhale	Assistant Professor at M.M. College, Digras.
6	Mr. Mahesh Pawar	Assistant Professor at Shivaji College, Chikhali.
7	Mr. Dhiraj Bande	Police Sub Inspector.
8	Mr. Vivek Khedkar	Technical Scientist at Medical College, Yavatmal

**13. Plan of action of the department for the next five years.**

- Organization of conferences.
- Organization of student seminar competition.
- Organization of Symposium.
- Enrichment of Museum.
- Undertaken major research project.
- To extend the capacity of research laboratory.
- Organization of guest lectures.
- Organization of excursion tours.