Departmental Profile
INTRODUCTION -

With the blessings of Sant Shiromany Swami Hirdaram Ji, Sadhu Vaswani Education society Bairagarh was established on 2nd Oct, 1979.

The undergraduate department of zoology was established on July 1st 1988 with the subject

**Combination :-**

1. Zoology, Botany, Chemistry

The department has well equipped lab with all facilities required to run the course. The course is delivered in the form of formal lectures on the theory implementation of contemporary methods, practical classes and discussions of recent scientific literatures., Inflibnet is being frequently used to impart information from library services. The students are given hands on experience in doing practicals.

INFRASTRUCTURE DEVELOPMENT -

The department has well equipped laboratory with a built up area of approx 788.16 sq.ft.

- A lecture hall (Room No. 11)
- A small staff room attached to the laboratory.
- Room no.19 for keeping instruments and preserved animals.
VISION -

"Provide knowledge that is relevant in the present time and helpful in pursuit of successful carrier." Efforts are made to give the student latest information about the subject available from various sources like electronic media and paper media.

MISSION-

“To create an environment where all round development of the student in different fields (academics and personal) is possible to make them better citizen of nation.

Achieving this is made possible by improving their results at university exams. This is done by justifying their performance in the class tests and CCE, (assignments, projects presentations) which are evaluated and discussed giving reasons.

OBJECTIVES -

Make students pursue patiently, make extra efforts and achieve the goal. Maximum interaction between the students and teachers brings an informal environment in the department, which helps them become more confident. They are encouraged to get all their doubts cleared, which help them, the quest of knowledge. Various assignments and projects contribute towards further help in achieving the goals.

MEANS-

A sense of belonging is the most effective in fulfilling the mission and attaining the objectives.

- To make this happen students are monitored regularly.
- Developing reading habits.
- Arranging guest lectures
- Group discussions
- Information clips on the department notice board.
- Participatory activities are organized to develop the communication and soft-skills of students.
• Educational trips are conducted.
LAB FACILITIES -

The undergraduates department of zoology has been maintaining rich traditions of teaching and learning science. Department has well equipped laboratory having good microscopes and other basic equipments it has an excellent collection of specimens in addition to skeleton and fossils of different types of mammals.

LEARNING RESOURCES OF THE DEPARTMENT-

There are sufficient number of unified books, good reference books are also included. In addition, the department subscribes the following journals-

- Flora and fauna (International Journal)
- Ecology, Environment and conservation (International Journal)

ADEQUACY AND COMPETENCY OF THE FACULTY

Thus all the faculty members of the department are adequately qualified academically for teaching UG and PG (not opened) students for their assignments and projects. The faculty members also take part in maintaining the discipline and in the extracurricular activities of the college like- Cultural programs, prospectus forming, library advisory committee, NSS, Nature club etc.
ABOUT THE STAFF

- Number of Teacher - 02
- Number of Technical staff - 01

Dr. Sadhna Tamot – HOD (M.Phil, Ph.D.)

- Dr. Sadhna Tamot is a specialist of: - Entomology and limnology, Ichthyology is also among her field of interest.
- She is member of BOS (Board of studies) in Barkatullah University, Bhopal and SN (Sarojini Naidu Govt. Girls P.G Autonomous college) Bhopal.
- Registered as guide - Barkatullah University Bhopal.
- She is currently guiding 3 research scholars.
- In College, she is also involved in cultural activities, prospectus forming committee, sports committee, Library and many more.
- She had also attended an International conference at AUSTIN (TEXAS) USA from 31 Oct. to 5 Nov. 2011.

- Recently she attended Training/Workshop on "Environmental conservation and Management organized by EPCO from 16 Dec to 21 Dec. 2013.

She has published 8 research paper during the last 3 years as per the list given below—
- Role of Plankton in water works limnology w/r to Kolar water treatment plant Bhopal (M.P.) India, Nat. sem on conservation and Management of Biodiversity P. 102-2011
- Effect of ambient temperature on the growth of fat cell in ageing Dysdircus similis freeman (Pyrrhocoridae-heteroptera) Biological forum An International Journal 3(2):52-54, 2011
- Impact of three different types of aeration units on limnology and fish fauna in a eutrophic tropical wetland lower lake Bhopal India, J. Nature Environment and pollution technology 10(3)-385-388, 2011
- Head Nitrate Induced Histopathological Alterations in the Gills of fresh water Teleost, Channa striatus (Bloch) Journal of Chemical, biological and physical science fevb-Ap2013, Vol.3 No 2 1109-1114
- Studies on Influence of sub-lethal concentrations of cadmium chloride on Gonado-somatic Index (GSI) of Air-Berating fish, Heteropnuestes fossils E ISSB(2278-179x) JECET Sep-Nov 2012 Vol. 1-3429-432
- Histological changes in the testis of air breathing fish, Heteropnuestes fossils (Bloch) following cadmium exposure Journal of chemical, Biological and Physical Science B-2012 vol. 3 No. 2, 1216-1221.
• Histopathological changes in the gills of freshwater murrel, Channa striatus (Bloch) exposed to lead nitrate International conference on waste, wealth & wealth & management org. by IIWM MPCST.
• The significance of Techniques in fish preservation and transport Page No. 57, Abs No. 179 International conference on "Research trends in Applied sciences with engineering application” (RTASEA) 2013 26-28 Apr. 2013

SEMINARS & CONFERENCES-
• Regional seminar on Intellectual property and Innovation management in knowledge era. Organized- NRDC, Supp. by M.P. State Bio diversity Board-18-08-2010
• National seminar on "conservation and management of Biodiversity in 21st century organized by M.V.M., supp. by MPCST and BD Board & UGG on 02-06-2011
• As a Judge in National children science congress selection of Project on district level on 29-11-2010
• International conference -14th world lake conference At AUSTIN TEXAS USA.
• Matasya Sammelan-organised by M.P. Govt. from 4 to 6 feb 2012.
• National seminar on vision/value/vibrancy in Higher Education-14.2.2012 CGHE Bhopal by UGC (Sponsored)
• Workshop E waste management on 27.03.2012 by pollution control Board.
• Workshop on question bank at SNPGG autonomous college Bhopal B.Sc. I & II sem from 24-25 Sep. 2012
• Attended workshop- The Role of EIA (Environment Impact Assessment ) in protecting forests and rural communities on – 2nd
• and 3rd Aug, conducted by – SANKALP JAN SEVA SAMITI with EPCO at Samvad Bhavan Bhopal.
• Attended “Brain Storming Session on Innovation in Sciences and technology for inclusive Development” on 12th Jan 2014, Organised by Indian science Congress Association Bhopal on occasion of – Swami Vivekanand Jayanti at Regional Science center Bhopal As a member of – Expert Panel
• Regional seminar on- Horizon of science and Technology in the up gradation of women. Organized by Dept. of Environmental science and Biotechnology sponsored by MPCST on 1 & 2 March 2012.
Mrs. Shweta Rahangdale (Asstt. Professor)

- M.Sc (Goldmedalist)
- M.B.A(HR )
- P.G.D.C.A.
- Pursuing Ph.D.

- She has qualified B.U- Ph.D entrance exam 2012 and pursuing Ph.D..
- She had participated in International conference on “Recent Trends in Applied Science with engineering application” held at Truba Engineering College Bhopal.
- In above conference her abstract was published on-”The significance of Techniques in fish preservation and Transportation” page no 57, Ab no 179. (RTA SEA 2013) on 26 to 28 April2013.
- She also participated in workshop- The role of EIA (Environmental Impact Assessment) in Protecting Forests and rural communities, also worked as resource person and delivered lecture on-She attended the 9 days short term training programme –on “Fresh
water Prawn (M.rosenbergii) seed rearing and culture" at CIFE Powarkheda, Hoshangabad from 16 Aug to 24 Aug. 2013

- Along with B.Sc. Zoology, She also teaches Environmental Studies (F.C.) to B.A., B.Com, B.Sc., B.C.A. (III & IV) sem. classes.
- In college she is convener of Nature club, important day celebration committee and active member in NSS, semester cell and other committees also.
CCE TYPES-
Assignments, Group discussions, project preparations, classroom teaching, MCQ, Oral presentation.

Internship Program (Job-Oriented Project) :- In the fields of

1. Aquaculture
2. Sericulture
3. Poultry farming
4. Water analysis
5. Vermiculture
6. Vermicompost
7. Pathological analysis
8. Radiology
SHORT TERM TRAINING PROGRAM – PRAWN CULTURE (JOP 2013-14)
Laboratory Specimens