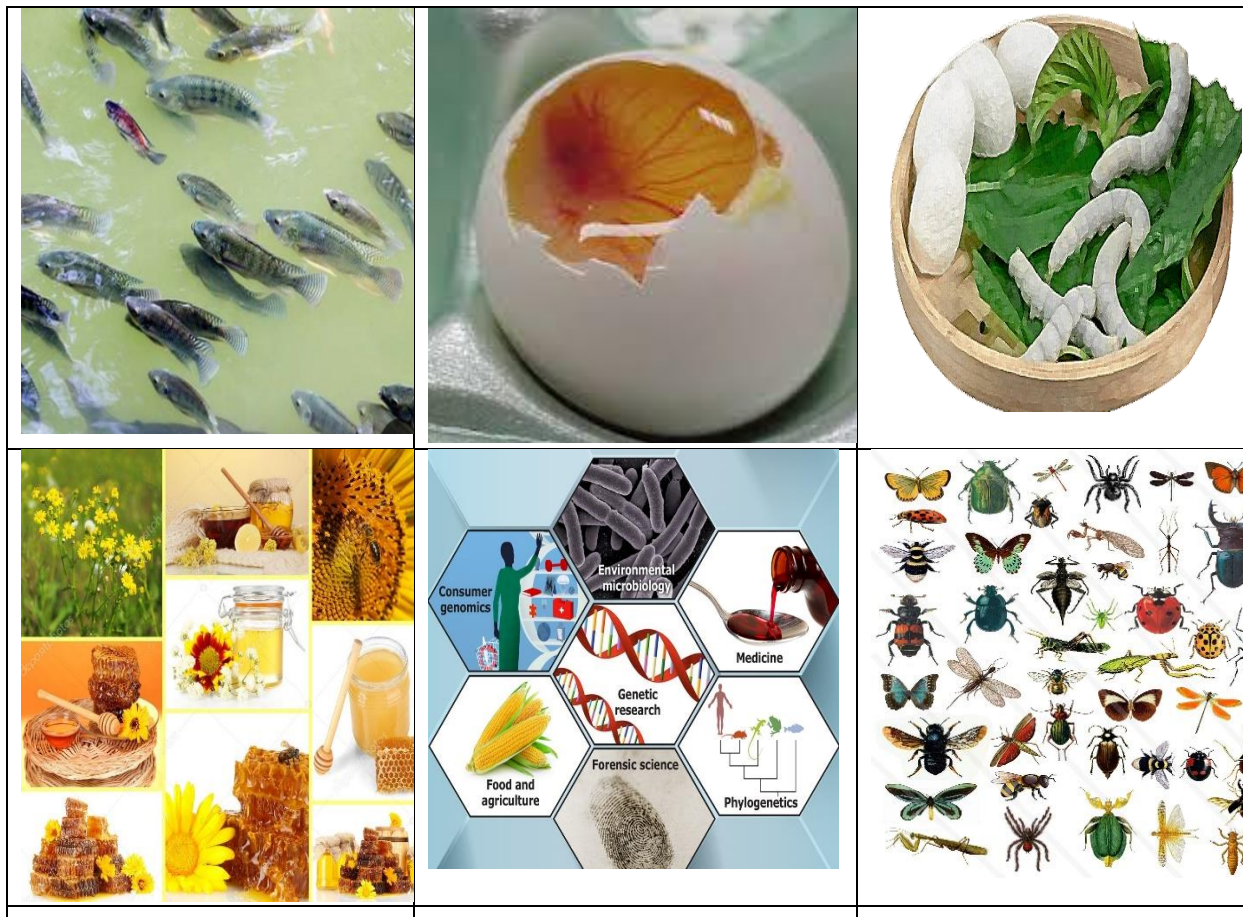


**Progressive Education Society's**

**Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-16**

**DEPARTMENT OF ZOOLOGY**  
**(B.Sc., M.Sc., M.Phil/ Ph.D)**

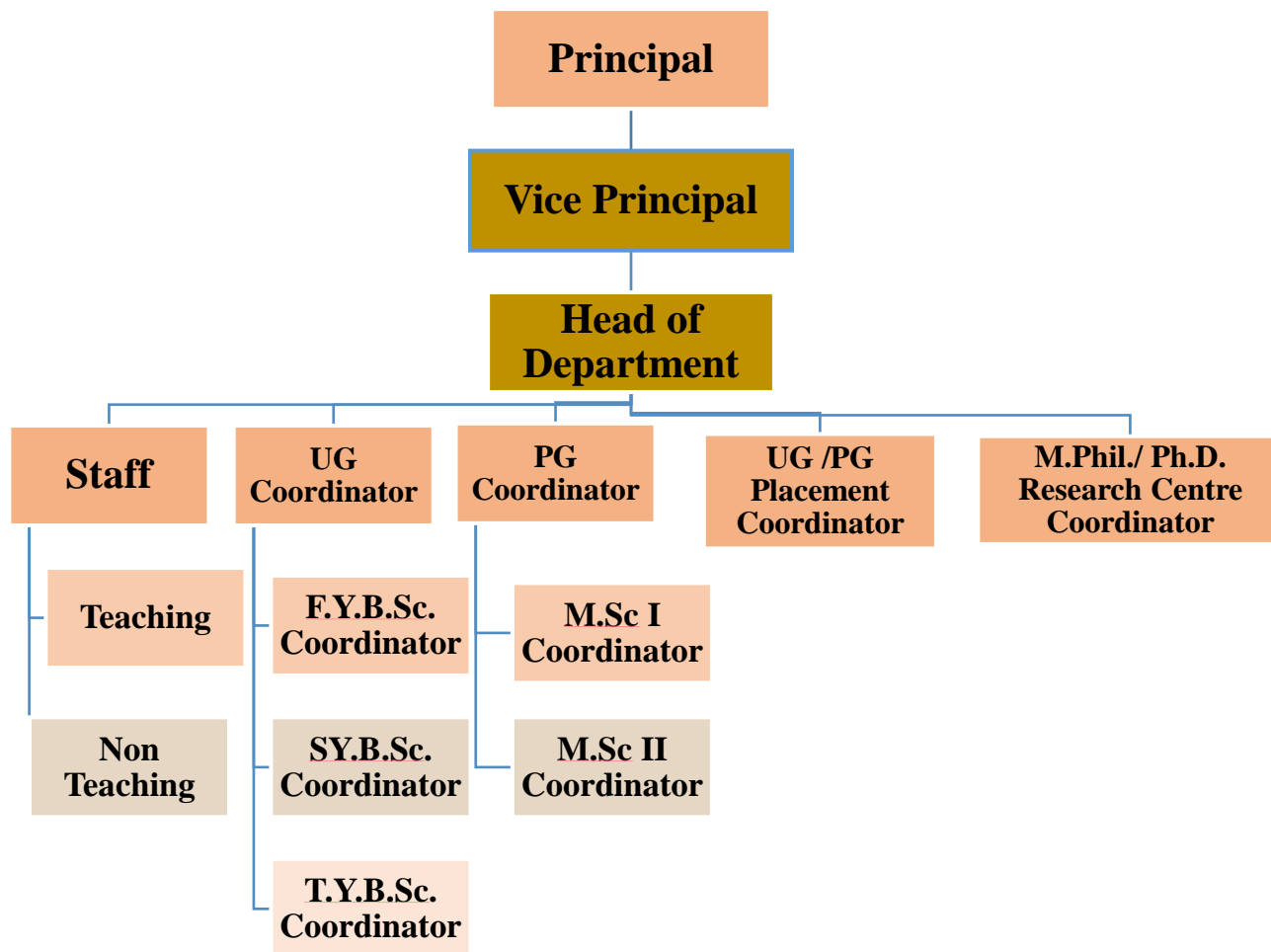


**VISION: To inculcate nature care by imparting knowledge of advanced modern techniques**

**MISSION: To inculcate nature care and love towards animals**

**GOALS: To provide global platform to the students in the area of Life Sciences.**  
**To provide acquaintance about fascinating world of fauna and their applications.**

# GOVERNANCE OF THE DEPARTMENT



## ABOUT THE DEPARTMENT.....

The Department of Zoology was established in 1993 with the commencement of B.Sc. Zoology. M.Sc. Zoology (specialization Entomology) was started in 2014. Recently the Department has taken a leading step and started Research Center(M.Phil/Ph.D) under the affiliation of Savitribai Phule Pune University (2017). There are research projects funded by UGC, BCUD SPPU, Pune, Government of Maharashtra and MAHARASTRA Forest Department.

The Department has launched a Modern Consultancy for Bio business and placement cell. The main objective of this center is to train students, veterinarians, biologists, physiologists, bio-engineers, biomedical scientists, etc.to collaborate with technology driven people and make them familiar with modern technology and provide opportunities for Placement and Entrepreneurship. Faculty of the Department has filed a patent. The Department has received a funding of Rs. 40 lakhs under Pradhan Mantri Matysa Sampada Yojna, Government of Maharashtra under which a disease diagnostics laboratory for aquatic animals has been set up.

## DEPARTMENTAL HIGHLIGHTS

- Research work in the areas of Ichthyology, Toxicology, Limnology, Entomology, Herpetology, Photochemistry and Mycology.
- Organization of courses on advanced topics to supplement the curriculum.
- Research project sponsored by BCUD/UGC.
- Department is sponsored by DBT-STAR, DST-FIST schemes.
- Department has collaboration with different National Research Institutes.
- A holistic development of students by ensuring the participation of maximum students in co-curricular & extra-curricular activities.
- Research publications by students and faculty.
- Memorandum of Understanding: Central Silk Board, India, Ashwamedh Biotech Kopargaon, Ahmednagar, Bee basket, Vaidika group, Pune, West Coast Aquaculture, GSABS, Mumbai etc.

## DEPARTMENTAL PROGRESSION

1<sup>st</sup> Cycle

- F.Y.B.Sc (1993)
- S.Y.B.Sc (1994)

2<sup>nd</sup> Cycle

- F.Y.B.Sc
- S.Y.B.Sc
- T.Y.B.Sc (1995)

3<sup>rd</sup> Cycle

- F.Y.B.Sc, S.Y.B.Sc, T.Y.B.Sc
- M.Sc (2014)
- Research Centre (2017), M.Phil, Ph.D

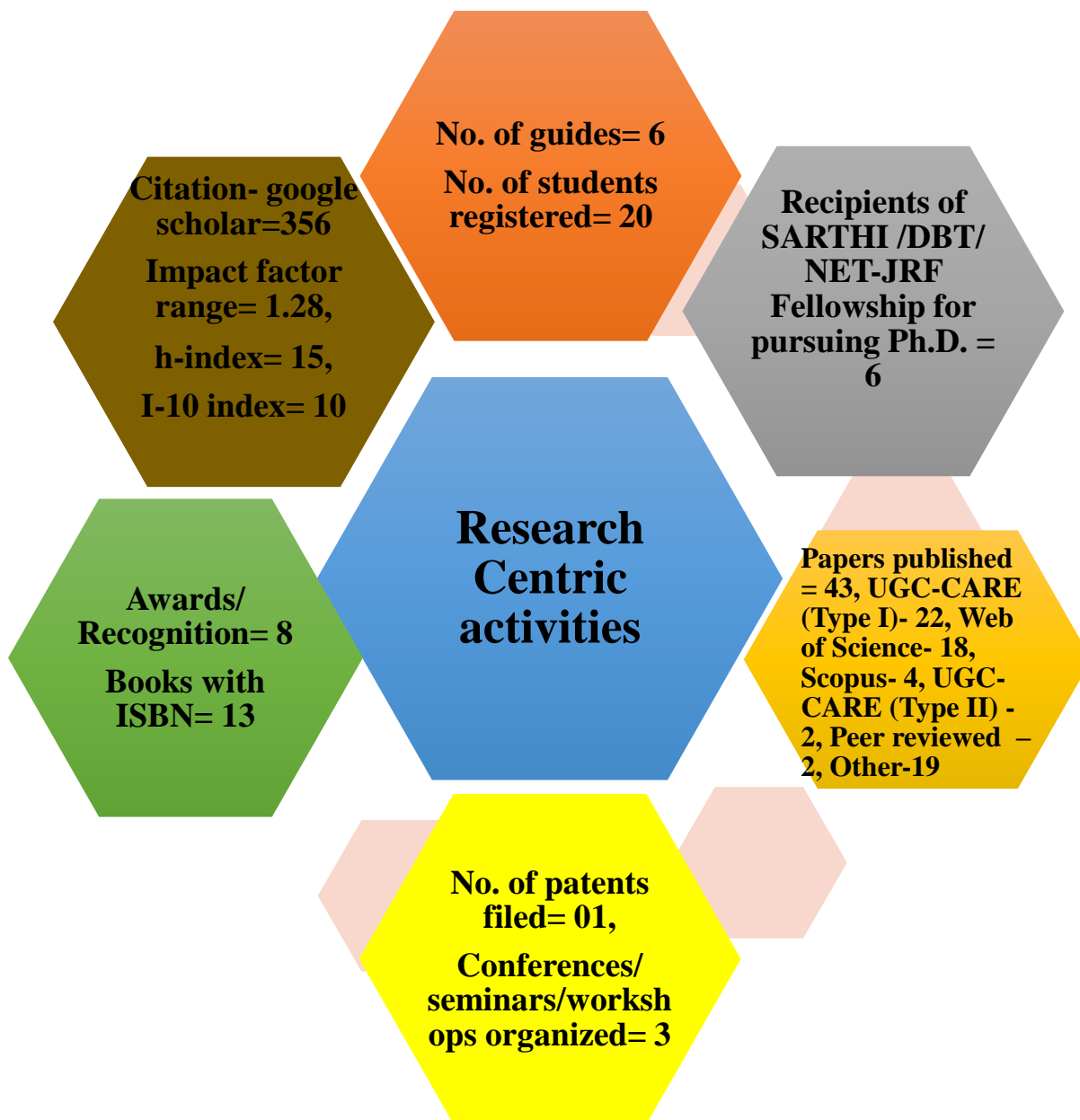
4<sup>th</sup> Cycle

- F.Y.B.Sc, S.Y.B.Sc, T.Y.B.Sc, F.Y. B.Sc.-Semester (CBCS), S.Y. B.Sc.-Semester(CBCS , M.Sc- (CBCS)
- Research Centre (2017), M.Phil, Ph.D
- Certificate Courses under DBT, Extra Credit courses, Scientific photography, Recent trends in Life Science research

## PILLARS OF THE DEPARTMENT



## DEPARTMENTAL RESEARCH



Council of Scientific and Industrial Research  
National Chemical Laboratory



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
SCIENCE & TECHNOLOGY



## RESEARCH SCHOLARS OF THE DEPARTMENT



**Dr. Ranjit More (Ph.D. awarded- 2022)**



**Ms. Priyanka Patil, Ms. Sarita Mankar, Ms. Deepika Walunj, Mr. Ganesh Markad, Ms. Heena Begde, (Ph.D. pursuing)**



**Mr. Mubeen Shaikh, Mr. Vishal Owhal, Mr. Sanjay Pokale, Ms. Manisha Mategaonkar, Ms. Aboli Belhekar (Ph.D. pursuing)**



**Ms. Mithila Chinchalkar, Ms. Hemangi Gavit, Ms. Gayatri Tingre, Ms. Varsha Bhong, Mr. Meghnath Ingole (Ph.D. pursuing)**



**Ms. Sneha Bhonsle, Mr. Ajinkya Unawane, Ms. Kalyani Aher Gavit, Mr. Rahul Dhekane (Ph.D. pursuing)**

## RESEARCH SCHOLARS AWARDED Ph.D.

**Name of the guide: Dr. Sanjay Kharat**



**Name of the students: Dr. Vasant Narke (Ph.D. 2015), Dr. Sachin Gosavi (Ph.D. 2019), Dr. Nirbhay Pimpale (Ph.D. 2020), Dr. Braj Mohan (Ph.D. 2021), Dr. Rupesh Raut (Ph.D. 2021)**

**Name of the guide: Dr. Shakera Inamdar**



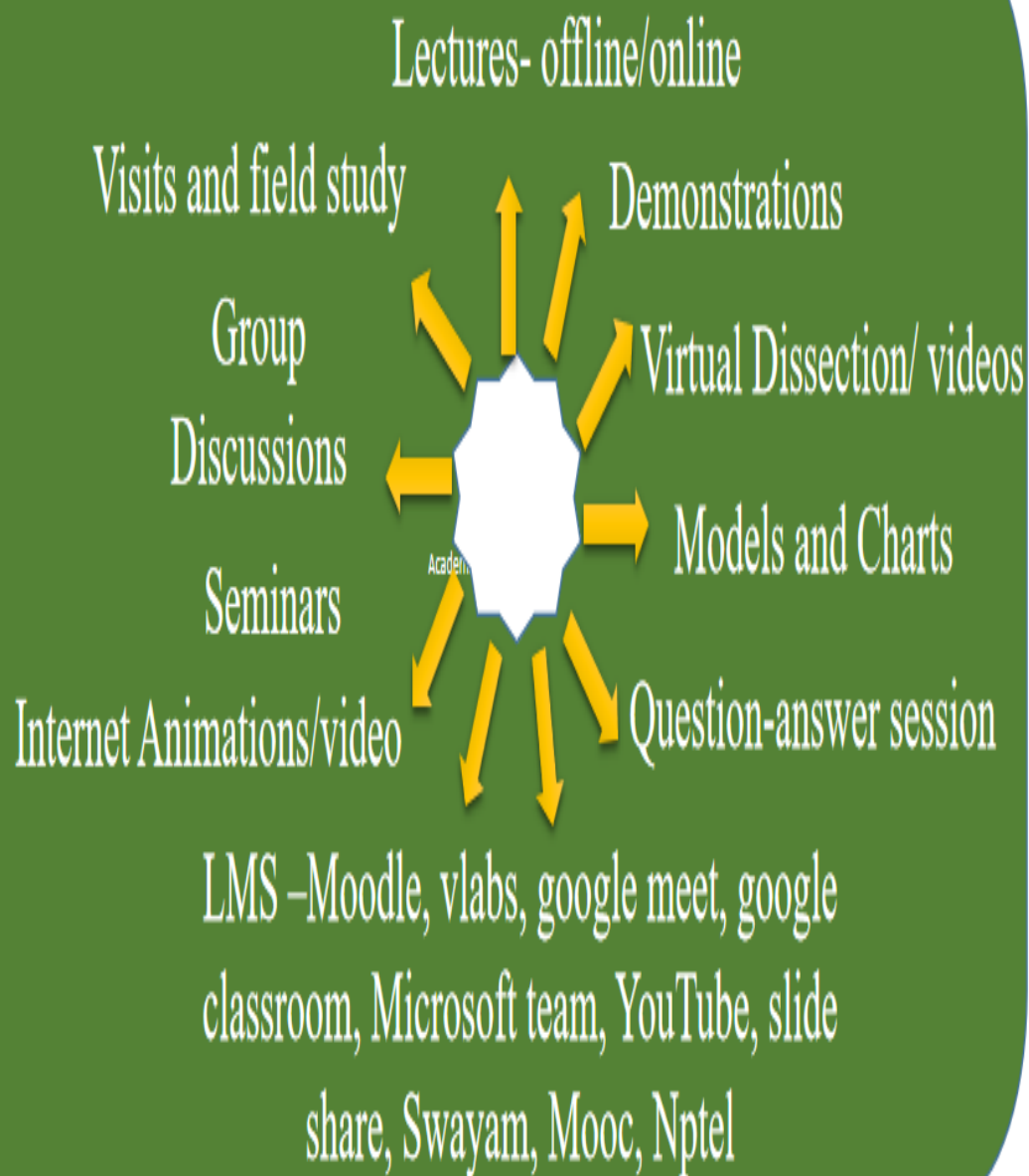
**Name of the students: Mrs. Bharti Patil (M.Phil 2012), Mr. Sanjaykumar Pokale (M.Phil 2012), Ms. Meghana Kulkarni (M.Phil 2021), Mr. Shamim Malik (Ph.D 2022)**

**Name of the guide: Dr. Ravindra Kshirsagar**



**Name of the students: Dr. Tejaswini Jagtap (Ph.D 2022), Dr. Pandit Jagtap (Ph.D. 2015), Dr. Mukta Shinde (Ph.D. 2016), Dr. Ramprakash Bhaiyalal (Ph.D. 2019), Dr. Pratibha Sawant (Ph.D. 2020), Dr. Neelam Redekar (Ph.D. 2021)**

## METHODS OF CURRICULUM DELIVERY

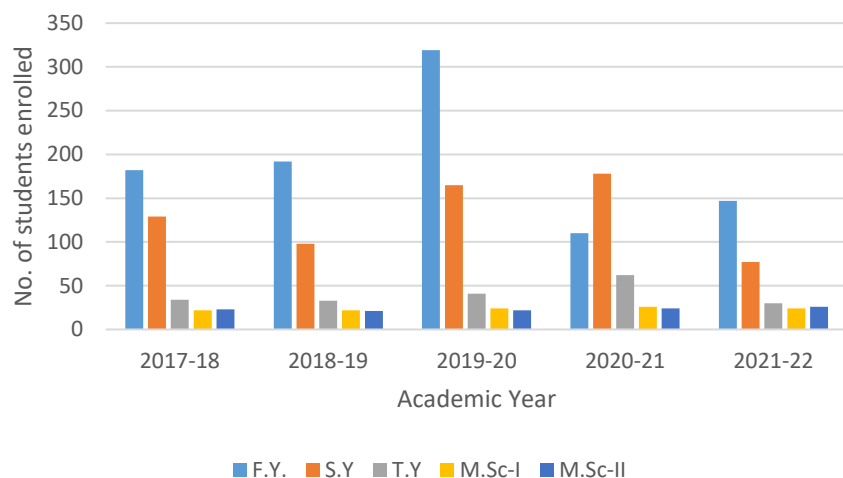


## PROMOTING USE OF TECHNOLOGY



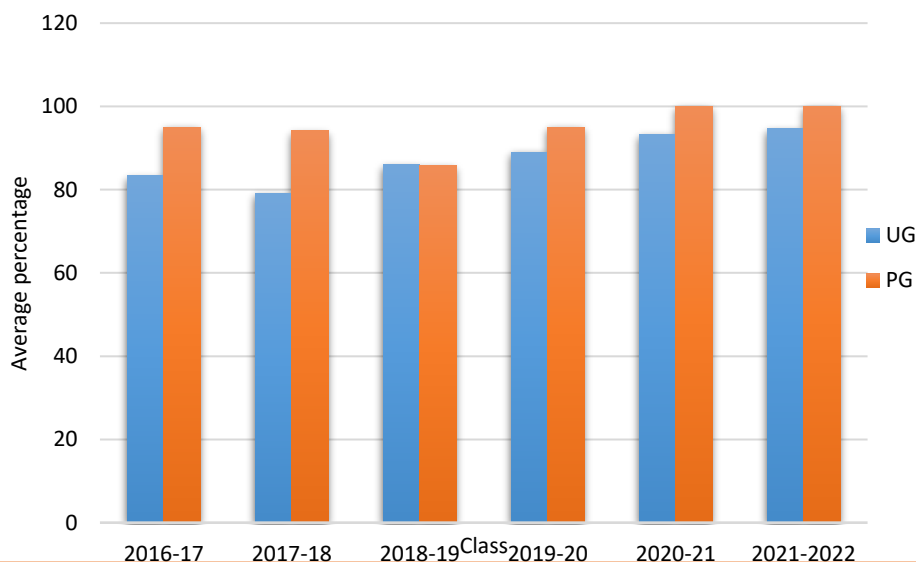
# STUDENT ENROLLMENT AND DIVERSITY

**Student strength**



The students enrolled in the Departments are diverse, apart from Maharashtra there are students from Delhi, Uttar Pradesh, Madhya Pradesh, Bihar and Rajasthan, J&K, Assam

**Result analysis (2016-2022)**



Course attainment levels: 1 ( 40 to 50 %), 2 (51-60%), 3 (61-100%)

## INFRASTRUCTURE

### No. of Laboratories-03

**Total no. of computers: 7**

**Instruments -32 (total cost Rs. 27,83,645**

### High end instruments

- PCR machine
- Stereozoom microscope, trinocular microscope
- Spectrophotometer,
- Leica Microtome
- Real-Time qPCR
- HPLC
- AAS, FTIR, Nano-Drop Spectrophotometer
- -80 refrigerators Cryotome
- Gel-Documentation Systems, Thermocycler
- Ultra-cooling Centrifuges

- **PCR machine**
- **Stereozoom microscope, trinocular microscope**
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- **Leica Microtome**
- **Real-Time qPCR**
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- **AAS, FTIR, Nano-Drop Spectrophotometer**
- **-80 refrigerators Cryotome**
- **Gel-Documentation Systems, Thermocycler**
- **Ultra-cooling Centrifuges**

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## **STUDENT SUPPORT**

**Academic and Career Guidance**

**Departmental Library and ICT facilities**

**Career Counselling and Placement Support**

**Financial Assistance to Students**

**Meet with Academic and Industrial Expert**

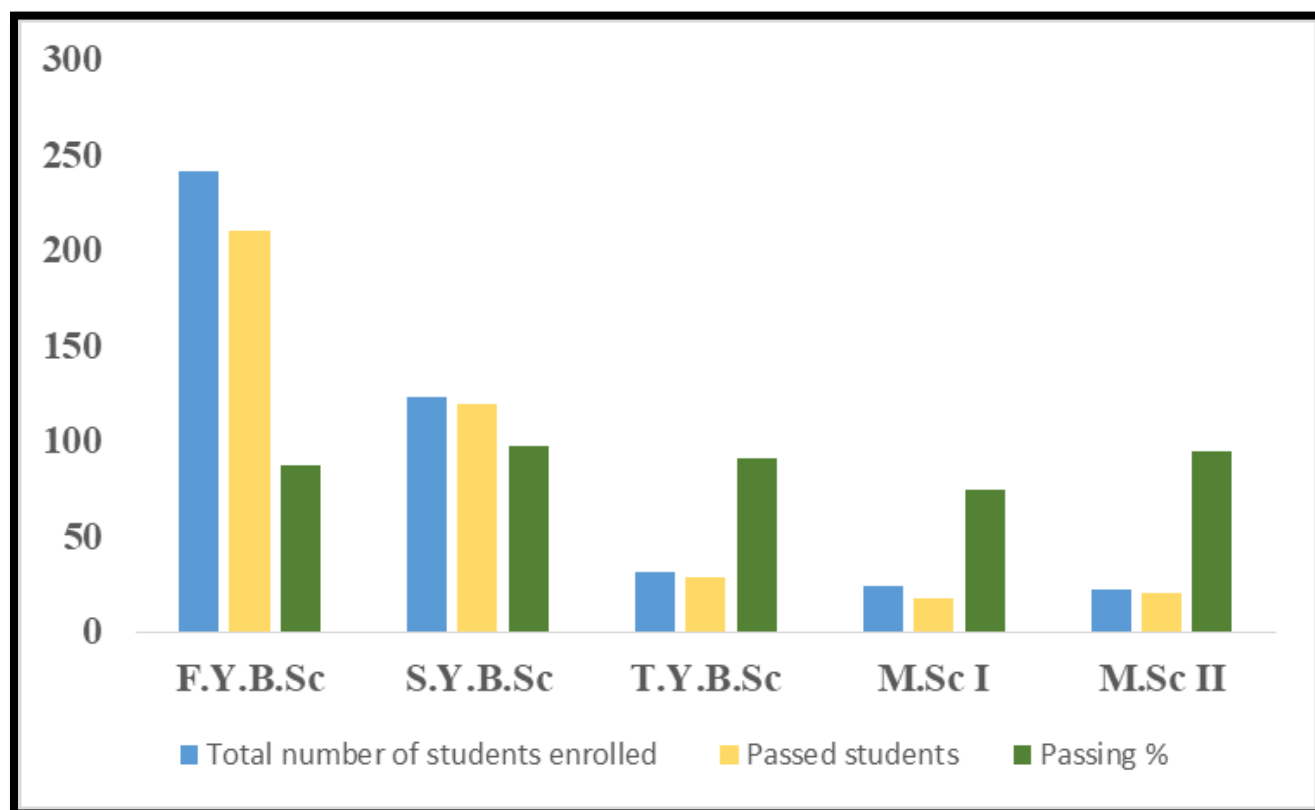
**Diagnostic Evaluation and Remedial Coaching**

**Bridge Courses**

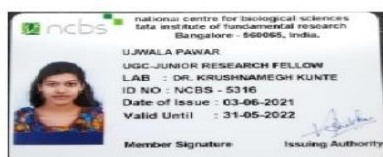
**Special Guidance for Advanced Learners.**

**Research Induction Programme**

## STUDENT PROGRESSION



## STUDENT PLACEMENT



**Ujwala Pawar (2017-18)**  
JRF at NCBS, Bangalore



**Yashodhara Yadwad (2018-19)**  
Employed at Springer Nature



**Preeti Kakati (2018-19)**  
Employed at Samarth Educational Institute



**Prashant Mane (2019-20)**  
Employed at Shri Bhagwati HR services



**Bhawana Singh (2020-21)**  
Employed at Radcliffe International



**Chetan Choudhary (2020-21)**  
Employed at Allen Institute

20-Dec-22

Department of Zoology, MCASC, Gk



*Towards innovation and excellence....*



**Designing of cost effective microscope- Project selected for State level Avishkar, 2022**



**Felicitation of Dr. Ranjit More for being awarded Ph.D.**



**Awards and recognitions**



# DEPARTMENT OF ZOOLOGY - ACTIVITIES AT A GLANCE



Council of Scientific and Industrial Research  
National Chemical Laboratory



विज्ञान एवं प्रौद्योगिकी विभाग  
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## BEST PRACTICES OF THE DEPARTMENT

# SELF I...

## *Self-Enhanced Learning for Innovation*

*Objective: Promote students to participate in experiential and self-learning activities and strive towards excellence and innovation....*

Van  
Project

Mother  
Earth

Zoocraft

Gaur  
Conflict  
Project

Zoologica

QUEST FOR EXCELLENCE