

### WHO WE ARE

The **Department of Biosciences** at **JIS University** is committed to excellence in teaching and cutting-edge research. We offer a range of academic programs including **B.Sc., M.Sc. and Ph.D.**, designed to cultivate both theoretical knowledge and practical skills. Our faculty members possess diverse academic and research backgrounds, with expertise spanning **biotechnology, microbiology, computational biology**, and various interdisciplinary domains. The department promotes **academic flexibility**, strong **faculty-student engagement**, and a collaborative learning environment. We are equipped with **state-of-the-art laboratories** that support both basic and applied research. Our programs emphasize on **Internships, Project Work** and **Seminar Presentations**, providing students with a comprehensive view of current trends and advancements in biological sciences. Our mission is to **nurture inquisitive and innovative minds**, preparing them to tackle global challenges in **academia, research, and industry**.

### MEET OUR FACULTIES



**Dr. Avik Acharya Chowdhury**  
Associate Professor and HOD  
[Specialization: Cell and cancer biology, molecular biology]



**Dr. Dipankar Ghosh**  
Associate Professor  
[Specialization: Microbial engineering and algal biotechnology]



**Dr. Mainak Mukhopadhyay**  
Associate Professor  
[Specialization: Enzyme technology, protein chemistry, bioenergy]



**Dr. Sukanta Shekhar Bhattacharya**  
Associate Professor  
[Specialization: Applied Microbiology, Toxicology and Microbiomes]



**Dr. Dibyarupa Pal**  
Assistant Professor  
[Specialization: Environmental bioremediation]



**Dr. Suparna Ghosh**  
Assistant Professor  
[Specialization: Bioremediation, nanobiotechnology]



**Dr. Agniswar Sarkar**  
Assistant Professor  
[Specialization: Clinical Virology, Molecular Epidemiology, Bioinformatics]



**Dr. Soumyabrata Roy**  
Assistant Professor  
[Specialization: Cancer biology, Immunology and Virology]



### PROGRAMS OFFERED

#### B.Sc. in Biotechnology

- **Duration:** 4 Years
- **Eligibility:** 10+2 in Science with minimum 50% marks, Biology compulsory
- **Admission Criteria:** JET (JIS University Entrance Exam)
- **Details:** Equips students with skills in molecular biology, genetic engineering, and bio-based technologies for diverse industrial and research applications.

#### M.Sc. in Biotechnology

- **Duration:** 2 Years
- **Eligibility:** Minimum 50% in relevant B.Sc. course
- **Admission Criteria:** JET (JIS University Entrance Exam)
- **Details:** Focuses on advanced concepts in biotechnology, including molecular biology, genetic engineering, and bioinformatics.

#### Ph.D. in Science

- **Duration:** Minimum 3 Years
- **Eligibility:** Postgraduate degree in a related discipline with at least 55% marks
- **Admission Criteria:** JIS University Research Entrance Examination
- **Details:** A research-intensive program designed to produce independent scientists and innovators capable of addressing real-world challenges.

#### B.Sc. in Microbiology

- **Duration:** 4 Years
- **Eligibility:** 10+2 in Science with minimum 50% marks, Biology compulsory
- **Admission Criteria:** JET (JIS University Entrance Exam)
- **Details:** Offers foundational and advanced knowledge of microorganisms and their role in health, environment, and industry.

#### M.Sc. in Microbiology

- **Duration:** 2 Years
- **Eligibility:** Minimum 50% in relevant B.Sc. course
- **Admission Criteria:** JET (JIS University Entrance Exam)
- **Details:** Offers in-depth training in microbial genetics, pathogenesis, industrial microbiology, and environmental applications.

### CONTACT US



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**81, Nilgunj Road, Agarpara, Kolkata-700109**





## EXTRA-MURAL RESEARCH FUNDING(S)

- ICMR-ADHOC
- SERB TARE
- BIRAC-EYUVA INNOVATION FELLOWSHIP
- MSME GRANT



## COLLABORATIONS

- Kalyani Mahavidyalaya
- SHRM Biotechnologies Pvt. Ltd.
- Alona Life Sciences Pvt. Ltd.
- E-YUVA Centre, ADAMAS University
- Guwahati Biotech Park
- Gurudas College



## OUR SUCCESS STORIES

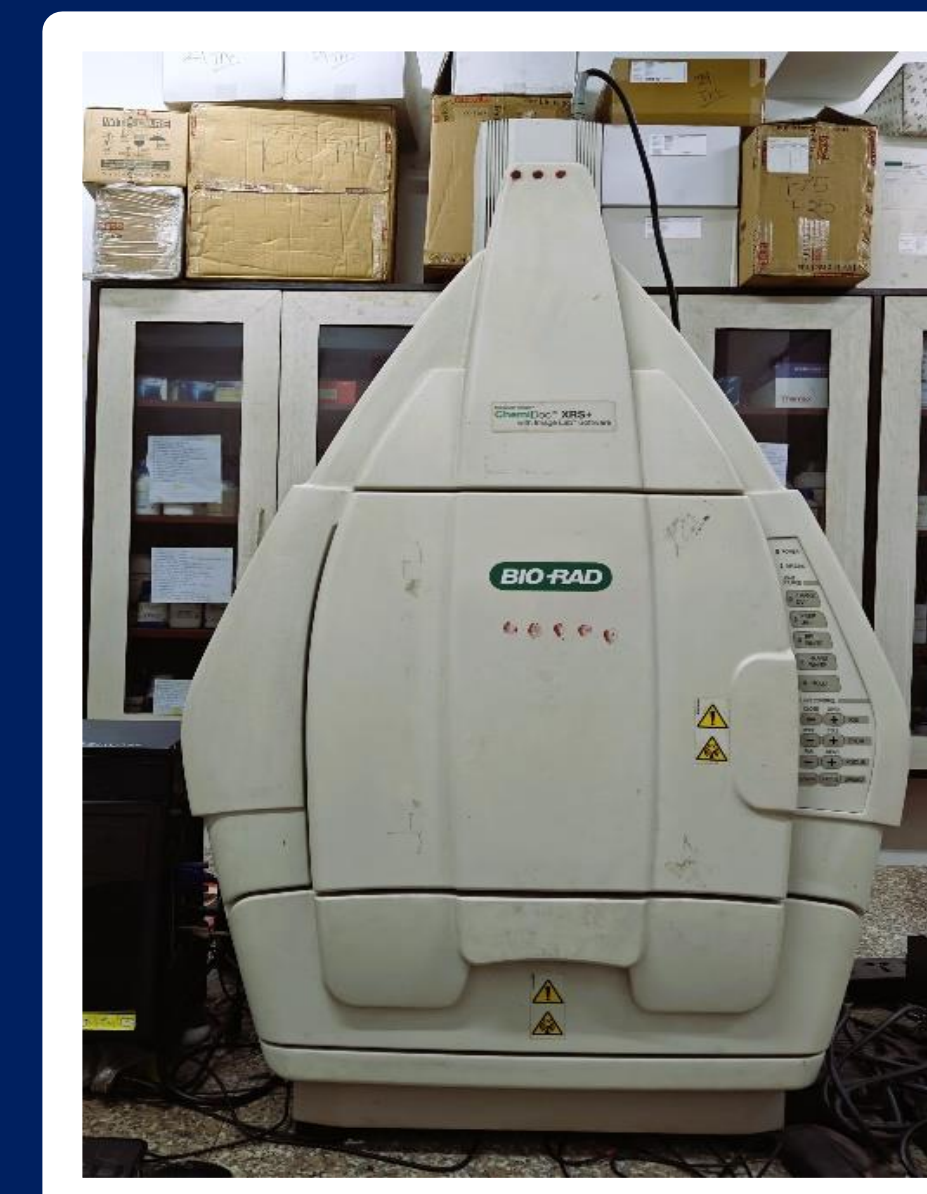
### Academic Excellence

- Gayatri Das – IIT-JAM
- Rangan Mitra – GATE-XL, GATE-BT, IIT-JAM, CUET PG, TIFR JGEEBILS
- Bibhav Pandit – TIFR JGEEBILS, IIT-JAM
- Suvodeep Saha – GATE-XL
- Mrinmoy Dey – GATE-XL, GATE-BT
- Sushmita Mallick – CUET PG
- Ankita Roy – GATE-XL, GATE-BT, IIT-JAM, CUET PG
- Somnath Jana – IIT-JAM, GAT-B
- Kunal Pradhan – IIT-JAM
- Biswajit Chowdhury – IIT-JAM, GATE-XL
- Sayan Adhikary – IIT-JAM
- Shruti Singh – IIT-JAM
- Sampriya Sarkar – GATE-XL

### Placements

- Successful placements occurred in the following companies over the span of 5 years
- Cipla
  - Promea Therapeutics Private Limited
  - Alteus Biogeneics
  - Krish Biotech Research Pvt. Ltd.
  - Macleods Pharmaceutical Pvt. Ltd.
  - Advantmed
  - Artech Information Systems
  - Corizo Edutech Company

## DEPARTMENTAL FACILITIES



ChemiDoc XRS+ IMAGING SYSTEM



Prima 96PLUS<sup>TM</sup> THERMAL CYCLER



37°C BOD Incubator Shaker



-86°C Freezer



1300 Series Class II, Type A2 Biological Safety Cabinet



Thermo Scientific<sup>TM</sup> BB15 Carbon Dioxide Incubator



Olympus-Magnus INVI Phase Contrast Microscope

## GLIMPSES OF DEPARTMENTAL ACTIVITIES



UV-VIS Spectrophotometer



Laminar Airflow Cabinet



High Speed Cooling Centrifuge