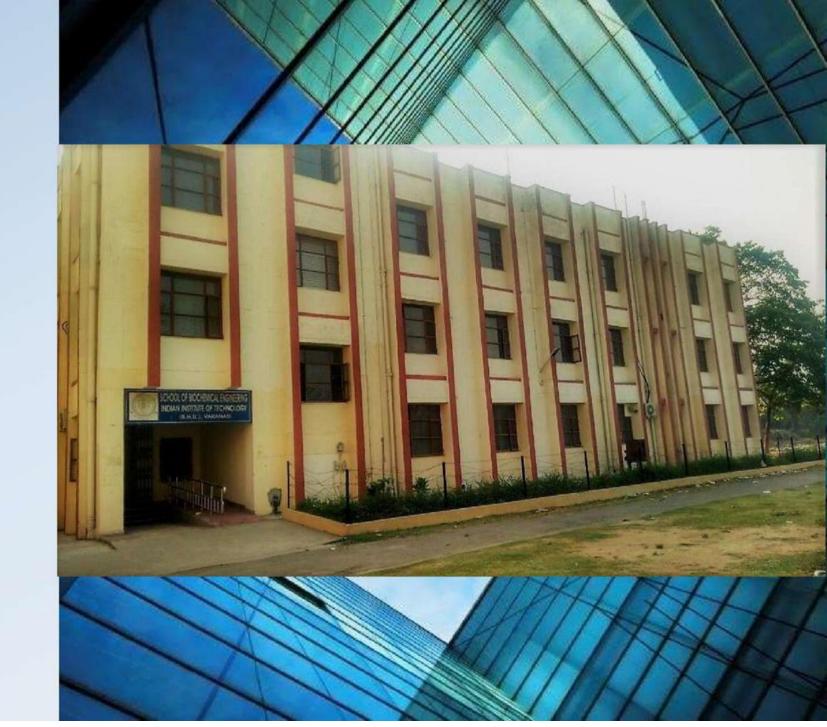


School of Biochemical Engineering

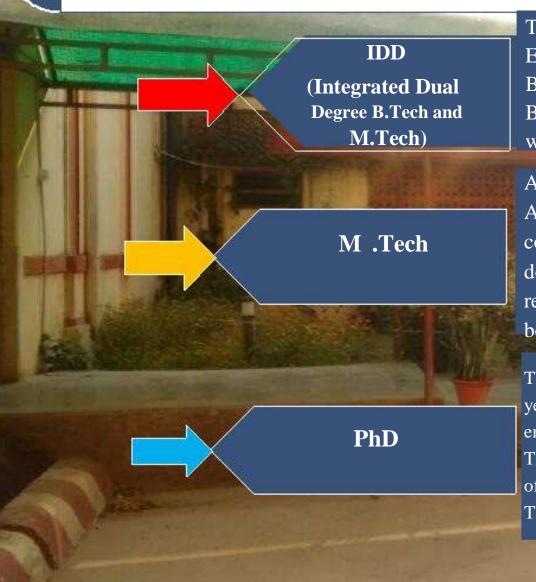
Indian Institute of Technology(BHU) Varanasi Placement Brochure2019-20





- The School presently offers courses leading to IDD, M. Tech. and Ph. D. degrees in Biochemical Engineering. The School also offers courses to undergraduate students of Department of Chemical Engineering, Department of Pharmaceutics, and postgraduate students of School of Materials Science & Technology, School of Biomedical Engg, Department of Civil Engg, Department of Food Science & Tech, Institute of Agriculture Sciences, and School of Biotechnology, Faculty of Science. In the new undergraduate curriculum, the School has been entrusted to offer a number of institute level courses either independently or jointly with other departments. The research facilities of the School are utilized not only by other departments of the institute and BHU but also by other teaching institutions and research laboratories. The faculty also guides inter departmental / interdisciplinary projects and dissertations.
- The School was established for achieving several benchmarks in teaching and research in the modern field of Bioengineering. It has kept on modernizing its programmes to impart education in upcoming areas of Biochemical Engineering.
- The School has been functioning the premise of Dept of Chemical Engineering since its inception. However, the school developed two dedicated laboratories in the Dept of Biochemical Engineering, IIT(BHU, subsequently has also developed its own building adjacent to the Dept of Chemical Engg (Total Area about 5,000 sq ft. Recently the school has a new building, three storied which includes all teaching and Laboratories. The floor area of the new building of School is 10,000 sq. feet (Total 30,000sq ft)

Admission



The admission to the IDD program is through the Joint Entrance Exam (JEE) conducted by the IITs. The degree is B.Tech in Biochemical Engineering and M.Tech in Biochemical Engineering and Biotechnology. This program was started from the year 2006 onwards.

Admission to the M.Tech Program is through Graduate Aptitude Test in Engineering (GATE) .The program involves coursework and project work of 2semesterseach.Theschool doesnotoffer anyspecialization but therearethrust areasof research as mentioned in subsequent pages. This program began from the year 1986 onwards.

The School offers Ph.D. Degree in Biochemical Engineering. The yearly intake varies between 10and 20. Students with Biochemical engineering degree or allied disciplines can join the Ph.D. programme. The School also offers joint research programmes with other Schools of the Institute or other academic institution/ R & D organizations. This program started from the year 1986 onwards.

Curriculum (IDD)

Core Courses

- Introduction to Biochemical Engineering
- Advances in Biochemistry
- Fundamentals of Microbiology
- Microbial Process Principles
- Bioprocess Calculations & Technology
- Microbial Engineering
- Enzyme Engineering
- Wastewater Engineering
- Biofuels & Bio Energy
- Molecular Biology and Genetic Engineering
- Bioinstrumentation and Control
- Bioreactor Design & Bioprocess Plant Design
- Fermentation Processes
- Structural Biology
- Downstream Processing
- Fundamentals of Bioinformatics
- Food Engineering & Technology
- Animal Cell Culture
- Protein Engineering
- Bioprocess simulation
- Cell & tissue Engineering

Institute Science and Engineering

Courses

- Engineering Mathematics-II
- Physics-II; Introduction To Engineering Electromagnetics
- Chemistry-I
- Engineering Thermodynamics
- Manufacturing Practices –I and II & Engineering Drawing
- Computer Programming
- Essentials of Biochemistry
- Fundamentals of Electronics and Instrumentation Engineering
- Chemical Reaction Engineering
- Numerical Analysis
- Energy resources and Utilisation
- New separation Processes
- Engineering Economics and Management
- Drug Delivery Techniques
- Process Optimisation
- Biotransport Processes

Curriculum (Postgraduates)

The School also offers many **PG** level courses to the students for their course credit requirement.

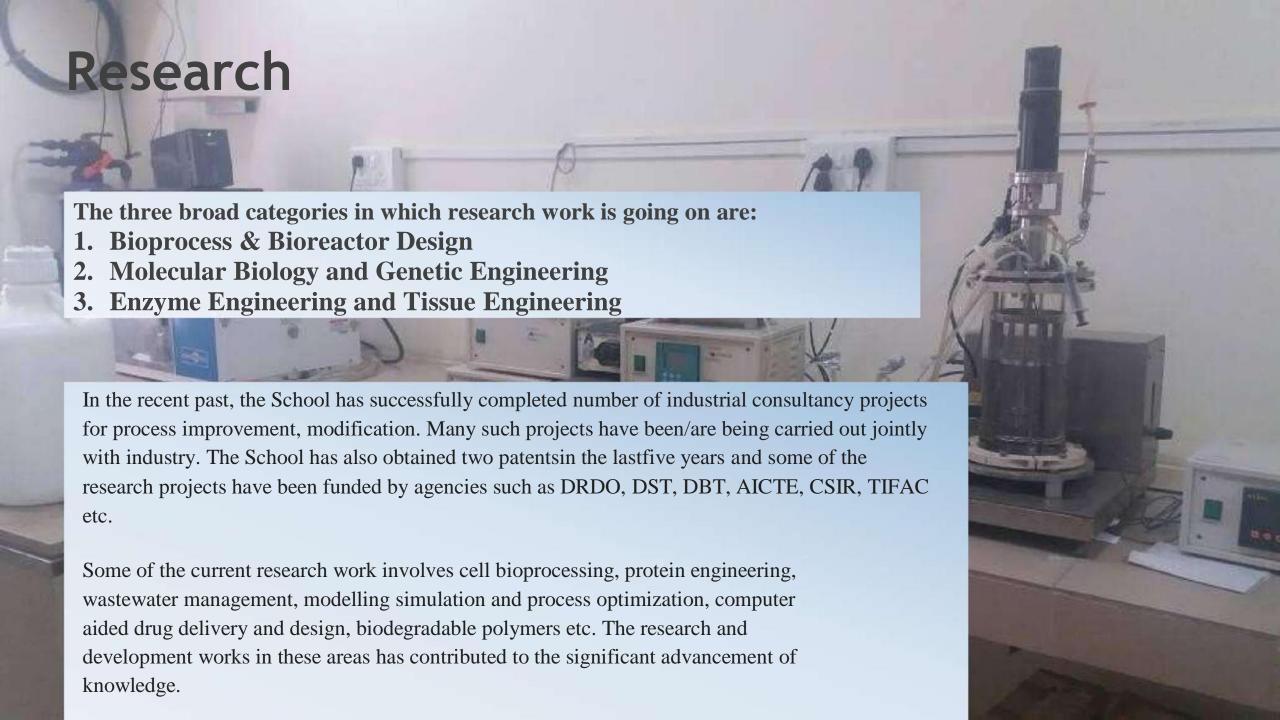
The School does not offer any specialization but runs a number of elective coursesat PG/ Ph. D. level. Such courses include:

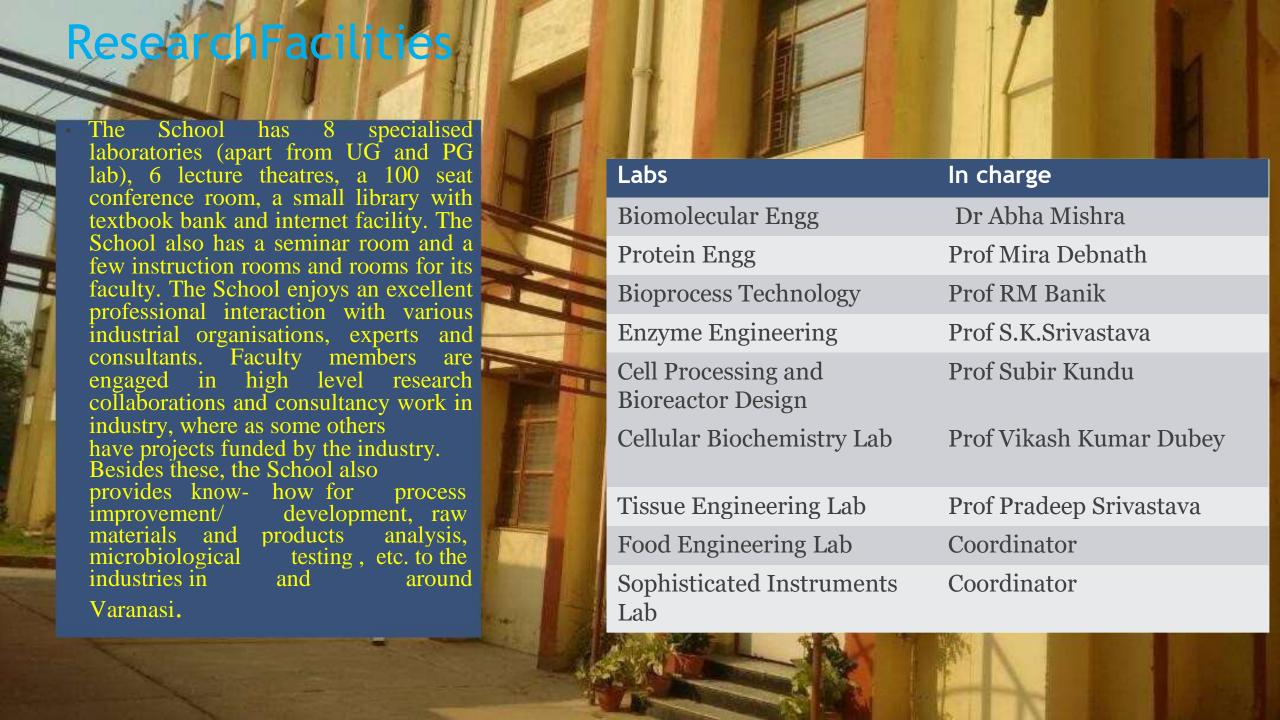
- Bioprocess Instrumentation & Control
- Enzyme Engineering and Technology
- Food Biotechnology
- Bioconversion
- WasteWaterTreatment
- Bioinformatics
- Biobusiness Planning and Management
- Animal Cell Culture

Student Achievements

In the past, students have done research work in top foreign universities in countries such as Canada, US, Germany, France, Australia, Singapore through fellowships like DAAD-WISE, MITACS-GLOBALINK, KHORANA etc. and also in prestigious research institutions and laboratories in India like IISc, IISERs, BARC, DRDO, IITs, Bose Institute, NIPGR, CIMAP Biocon, Genebox etc.

The School requires the IDD students to undergo a compulsory eight week internship at the end of the third year at universities, research institutions and industries.







Prof Pradeep Kumar Srivastava Coordinator

Email id: pksrivastava.bce@iitbhu.ac.in

Mob no:+91-9415302088

Dr Sanjay Kumar
DepartmentalTraining and Placement Officer

Email id: sanjaykr.bce@iitbhu.ac.in

Mob no:+91-8416804166

Harsh Narayan Tiwari

DepartmentTraining and PlacementCoordinator Email id: harshnarayan.tiwari.bce16@iitbhu.ac.in

Mob no: +91-8175058961

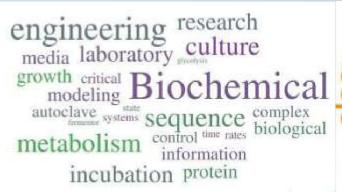
Kumar Prithvijeet

DepartmentTraining and PlacementCoordinator Email id: kumar.prithvijeet.bce16@iitbhu.ac.in

Mob no +91-8507275944

Contact no:+91-542-2307007
Email id: tpo@iitbhu.ac.in

For any queries please visit: www.iitbhu.ac.in/dept/bce





Training and Placement office Placement.iitbhu.ac.in Contact no:+91-542-2307007