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DEPARTMENT OF BIO-ENGINEERING

PLACEMENT BROCHURE 2018 - 19

ABOUT THE DEPARTMENT

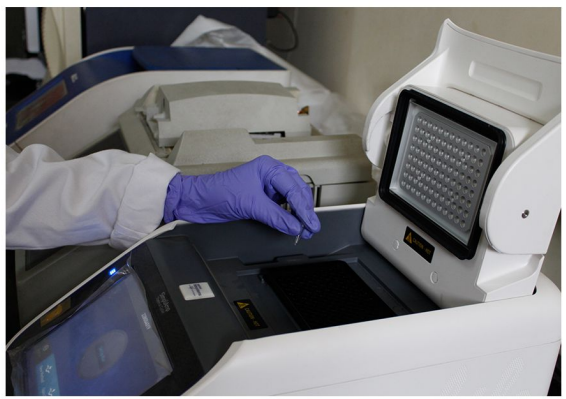
The department of Bio-Engineering was established in 2002 with financial support from the Department of Agriculture, Government of Jharkhand, with objectives like providing education and training facilities, carrying out application oriented research, developing in- house technologies and promoting consultancy services in various areas of Bio-Engineering.

Undergraduate Programmes

- B.E. (Bio-Engineering)

Post-Graduate Programmes

- M.Sc. (Bio-Engineering)
- M.Sc. (Bio-Informatics)
- M.Tech. (Bio-Engineering)
- M.Tech. (Biomedical Instrumentation)



2 COURSES OFFERED

BIO ENGINEERING

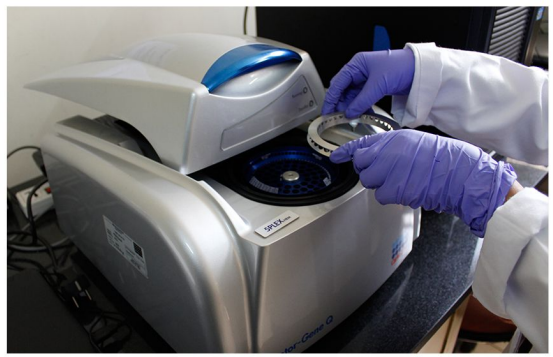
- Cell and Molecular Biology
- Bio-analytical Technique
- Bio-Molecules and Energetics
- Chemical Engineering 1
- Chemical Engineering 2
- Microbiology
- Immunology
- Thermodynamics of Biological System
- Bioprocess Engineering
- Chemical Engineering 3
- Functional Genomics and rDNA Technology
- Reaction Engineering
- Bio-Separation Engineering
- Plant and Agriculture Biotechnology
- Food and Enzyme Technology
- Process Measurement and Control
- Biological Waste Management
- Bioreactor and Bioprocess Design
- Bioenergy
- Bioremediation
- Pharmaceutical Biology
- Mineral Biotechnology
- Animal and Stem Cell Technology
- IPR, Bio-safety, Bio-ethics
- Biotechnology Management

BIO ENGINEERING LABS

- Cell and Molecular Biology Lab
- Bio-analytical Lab
- Bio-chemistry Lab
- Chemical Engineering Lab
- Microbiology Lab
- Immunology Lab
- Bioprocess Engineering Lab
- rDNA Technology Lab
- Bio-separation Engineering Lab
- Plant cell Technology Lab
- Enzyme Technology Lab
- Environment Biotechnology Lab
- Bio-informatics Lab

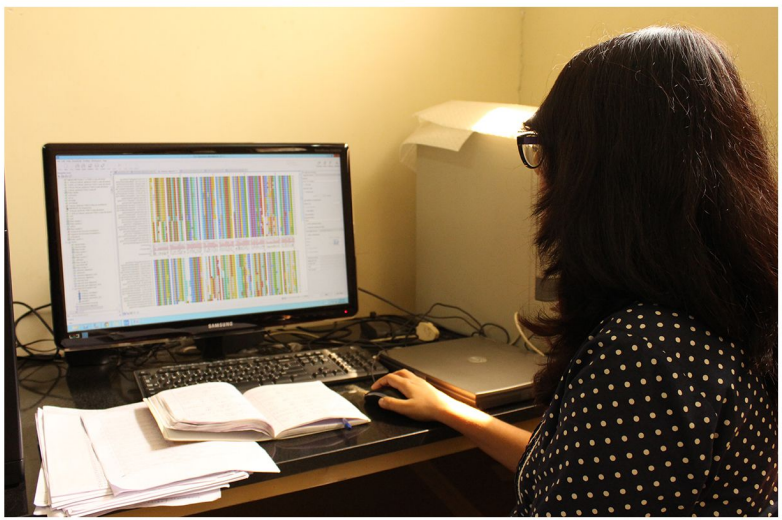
RESEARCH FACILITIES

- 12 well equipped high-end research laboratories.
- The ‘new state-of-the-art’ Instrumentation facilities include: GC Mass Spectrophotometer, Real time PCR, FPLC, HPLC, UPLC-QTOF, UPLC-MS/MS, Spray dryer, Rotary evaporator, Ultra water Purificatio system, Typhoon Laser imager, Lypholizer, Thermal cyclers, Gene pulser, Microplate reader, 2D electrophoresis system, SCF extraction system, Spectrophotometers, Fluorimeters, Modern microscope with digital imaging system, Stereo microscope with colony counter, Fluorescence microscope, Lab and pilot scale Bioreactors.



4 STUDENTS' ACHIEVEMENTS

- Two teams of two students participated in student research convention "ANVESHAN" organised by Association of Indian Universities,New Delhi and participated in National level after securing 1st position at Zonal level in the field of Bio-fuels and therapeutic switching.
- A team of five students was part of the 20 teams shortlisted for business plan workshop and final presentation at NCR for the Bio-entrepreneurship competition BEST 2016 (Biotechnology entrepreneurship student teams) organised by ABLE (Association of Biotechnology led Enterprise) and Department of Biotechnology, Ministry of Science and Technology, GOI.
- Student of our department Presented a paper on “Computational Study and Characterization of Green Synthesis of Silver Nanoparticles” at International Conference on Recent Research in Biomedical Engineering, Cancer Biology, Stem Cells, Bioinformatics and Applied Biotechnology at Jawaharlal Nehru University , New Delhi. The paper was published in International Journal of Basic and Applied Biology.



5 STUDENTS' ACHIEVEMENTS

- Students got selected for the internship "MIND OVER MATTER" organised by TATA Steel.
- Student got selected for the internship at CCMB (Centre for cellular and molecular biology).
- Research project on"Optimization of nutritional and physical parameters of the rhizobacterial isolate of Stevia rebaudiana"
- Paper publication in “Research Journal of Pharmaceutical, Biological an Chemical Sciences” on the topic: “Study and Evaluation Of Pathway Process of Polyol Producing Micro-organisms And their Enzymes through In Silico Approaches.”
- Student Selected at National Level Student Research Convention organized by Association of Indian universities Mar’17.
- Student Secured 1st Position in East zone Student Research Convention organized by Association of Indian universities Feb’17.
- Students selected as Research Intern at Illinois Institute of Technology.

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THANK YOU

For your Time & Attention!

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