



One Week Faculty Development Program

On

Hand-on Workshop in Bioprocessing and Biomanufacturing: From Fundamentals to Industrial Applications

20th – 24th January 2025



Organized by:

**Association of Indian Universities -
Gautam Buddha University Academic &
Administrative Development Centre
(AIU-GBU AADC)**

at SoBT, GBU, Yamuna Expressway, Greater Noida, Gautam Budh Nagar, Uttar Pradesh

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IT SUPPORT

Dr. Sandeep Rana, System Manager, CCC, GBU
Mr. Rajkumar, Technical Superintendent, CCC, GBU

TOPICS TO BE COVERED

- Overview of Bioprocessing and Biomanufacturing Pipeline.
- Introduction to Design of Experiments (DOE).
- Hands-on experience in Fractional Factorial Design (FFR).
- Experimental design of Response Surface Methodology (RSM).
- Monitoring key parameters through bioreactor operations.
- Introduction to downstream Processing Technique (Affinity Chromatography).
- Data Interpretation and Analysis.

About the University

Gautam Buddha University, established with government funding on a sprawling 511-acre lush green campus in Greater Noida, is committed to fostering multidimensional growth through education, training, and research. Establishing incubation cells and strategic collaborations through various Memoranda of Understanding (MOUs) with industry leaders and research organizations further enhances the entrepreneurial environment. The academic programs at Gautam Buddha University are designed in line with the best universities worldwide, blending top-tier pedagogy, classroom teaching, and hands-on experiential learning. The focus on value-based education is further reinforced by establishing eight specialized schools. These include the School of Vocational Studies, School of Biotechnology, School of Engineering, and School of Information and Communication Technology, offering undergraduate, postgraduate, and doctoral-level studies in various scientific disciplines, including interdisciplinary domains. This holistic approach ensures that students and faculty have the resources to excel and contribute to developing knowledge, technology, and innovation.

Visit us @ <http://www.gbu.ac.in>

About the School

The University School of Biotechnology is housed in a state-of-the-art building with advanced teaching and research facilities. The school boasts well-equipped research laboratories and a team of highly skilled faculty members who are committed to academic excellence and innovation. Many of our faculty members have secured extramural funding from various national agencies, reflecting their active

involvement in cutting-edge research. The department is also proud to hold several patents and is engaged in numerous pioneering projects that contribute to the advancement of biotechnology. Our program aims to produce graduates and postgraduate professionals with in-depth knowledge and expertise in the rapidly evolving biotechnology field. The curriculum emphasizes emerging areas such as Genetic Engineering, Bioinformatics, Microbiology, Immunology, Cell and Molecular Biology, Bioprocess Engineering, IPR & Bioentrepreneurship, and Biotechnology Innovations.

About the FDP

The one-week Faculty Development Program (FDP) on Bioprocessing and Biomanufacturing, organized by the Association of Indian Universities (AIU) and Gautam Buddha University, aligns with India's BIOE3 policy, which promotes innovation, research, and skill development in biotechnology. The program covers bioprocessing fundamentals, experimental design techniques, and hands-on sessions on tools like Fractional Factorial Design, Response Surface Methodology (RSM), bioreactor operations, and downstream processing. It equips educators with practical skills to teach and mentor in biotechnology, fostering problem-solving and analytical thinking to enhance India's biotechnology sector and support research, teaching, and industry development.

Speakers

Reputed Scientists, Academicians &
Industry professionals

Participants:

All Faculty and Research Scholars

Session Timings:

Session 1: 10:00 am - 01:00 pm

Session 2: 02:00 pm - 05:00 pm

Certificate will be provided to all participants

Last date of Registration: 10th jan, 2025

Registration Link :

<https://forms.gle/kPvRyjLimXt56FQB6>

Registration Fee:

Registration Fees for participants: Rs 4000/- rupees
(*Accommodation charges will be applicable as per university norms)

The account details for online payment are -

Name of Beneficiary: Gautam Buddha University

Account No. : 6660000100000025

IFSC Code : PUNB0666000

Branch: PNB, GBU, Greater Noida

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