

## CONVENER

**Prof. (Dr.) Alvina Farooqui**  
Head, Department of Bioengineering,  
Integral University

## CO-CONVENER

**Dr. Zeeshan Rafi**  
Assistant Professor, Department of Bioengineering,  
Integral University

**Dr. Imran Hussain**  
Assistant Professor, Department of Bioengineering,  
Integral University

## PROGRAM COORDINATION COMMITTEE MEMBERS

### 1. Animal Cell Culture

Dr. Zeeshan Rafi  
Dr. Imran Hussain

Dr. Latafat Choudhary  
Er. Abu Junaid

### 2. Chromatography Techniques

Dr. Ashish  
Dr. Azhar kamal  
Mr. Faizan Hafeez Khan  
Dr. Taufeeq Ahmad  
Dr. Haram Sarafaraz

### 3. Food Safety & Security

Er. Gazia Nasir  
Er. Sameer Ahmad  
Ms. Priyanka Dubey  
Er. Nuzhat Bashir  
Ms. Gazala Anjum

## ABOUT INTEGRAL UNIVERSITY, LUCKNOW

Integral University, a seat of educational excellence, is a premier university in Lucknow, the capital city of the state of Uttar Pradesh, India. It was established under Act Number 9 of 2004 by the State Government. The University is duly approved by the University Grants Commission (UGC) under sections 2(f) and 12B of the UGC Act, 1956, Medical Council of India, Pharmacy Council of India, Indian Nursing Council, Council of Architecture, Bar Council of India, Indian Association of Physiotherapists, National Council for Teacher Education, UP State Medical Faculty and Distance Education Bureau. Integral University is accredited by A+ NAAC and recognized as a Scientific & Industrial Research Organisation (SIRO) by the Department of Scientific & Industrial Research, Ministry of Science & Technology, Government of India

## REGISTRATION FORM

# ONE-WEEK SKILL DEVELOPMENT WORKSHOP ON "ANIMAL TISSUE CULTURE, CHROMATOGRAPHIC TECHNIQUES & FOOD SAFETY & SECURITY (25<sup>th</sup>-30<sup>th</sup> AUGUST, 2025)

## HOW TO APPLY?

Candidate must apply online solely through Integral University Website.

### REGISTRATION LINK

<https://www.iul.ac.in/FrmAdvProgramReg.aspx>

1. Animal Tissue Culture & Chromatography  
INR-3500 (Outside IU) INR-3000 (Inside IU)
2. Food Safety & Security  
INR-2000 (Outside IU) INR 1500 (Inside IU)

**Note:** External student have to upload a Forwarding letter from the Head/Dean/Director of Department /Faculty/Institute

## VENUE

**DEPARTMENT OF BIOENGINEERING**  
INTEGRAL UNIVERSITY, LUCKNOW

## FOR ANY QUERY CONTACT

**Dr. Zeeshan Rafi**  
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**Dr. Imran Hussain**  
E-mail: [imranhussain@iul.ac.in](mailto:imranhussain@iul.ac.in) | Contact : +91-9235 98 0611

**Accommodation : Is available for limited seats  
at a minimal charge of  
Rs. 800/- per day Including Food.**

SCAN QR  
CODE FOR  
REGISTRATION



**INTEGRAL  
UNIVERSITY**  
LUCKNOW - INDIA

**A+** ACCREDITED  
BY NAAC

NABH  
ACCREDITED  
800 BEDDED HOSPITAL

NABL  
ACCREDITED  
LABS

NBA & ICAR  
ACCREDITED  
PROGRAMS

CS I-GAUGE  
DIAMOND

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# ONE WEEK SKILL DEVELOPMENT WORKSHOP

ON

# ANIMAL TISSUE CULTURE, CHROMATOGRAPHIC TECHNIQUES & FOOD SAFETY & SECURITY

**25<sup>th</sup>-30<sup>th</sup> AUGUST, 2025**

Organized by

**DEPARTMENT OF BIOENGINEERING  
FACULTY OF ENGINEERING  
INTEGRAL UNIVERSITY, LUCKNOW-226026**





## ABOUT THE DEPARTMENT

The Department of Bioengineering under the Faculty of Engineering is committed to apply engineering principles to biological sciences in order to develop systems and processes that will prove to be beneficial for the society.

The department offers undergraduate and post graduate courses in engineering viz. B.Tech Biotechnology, B.Tech Food Technology, B.Tech Biomedical Engineering, M.Tech Biotechnology (Full Time 2 Year Course), M.Tech Biotechnology (Evening 3 Year Course), M.Tech Bioinformatics, M.Tech Food Technology, M.Tech Biochemical Engineering, M.Tech Bio Medical Engineering and PhD in various areas of specialization under the Faculty of Engineering. The Department has fully equipped research laboratories and well qualified faculty members having doctoral, post doctoral degrees in engineering and research trainings from India and abroad. The department is working in the area of genetic engineering, infectious diseases, targeted drug delivery systems, nanobiotechnology, cancer biology, molecular immunology, bioinformatics, plant biotechnology, computational and system biology, animal biotechnology, microbiological engineering, fermentation technology, mathematical modelling and simulation, bioprocess engineering and controls etc. The department also has the distinction of providing good placement to the students in association with CCG&D and many students qualify national level exams like GATE, CSIR-NET, UGC-NET, ICAR-NET, CAT, MAT etc.

## ABOUT THE WORKSHOP

Biotechnology is indeed a rapidly growing field with diverse application with significant impact across various sectors. It's a field that combines biology with technology to solve real world problems.

Animal tissue culture is a cornerstone of modern biotechnology, offering crucial tools for research, drug development, and the production of valuable biological products, HPLC technology analyze and purifies biological molecules like proteins, peptides, and nucleic acids. It's also crucial for developing biopharmaceuticals, enhancing biocatalysts, identifying and, purifying proteins and food technology is revolutionizing by offering tools to improve food production, processing, and safety. These techniques are needed in industries involved with the research and development, acquired knowledge and skill to contribute in innovation and progress in these critical areas. It is a need of hour to provide participants with in-depth theoretical knowledge and practical expertise in these technologies through hands on training. This workshop aims to bridge the gap between academic learning and industrial application, fostering skill development and career growth.

## WORKSHOP MODULE (OPTIONAL)

### Animal Cell Culture & Chromatographic Techniques:

1. Preparation of Media for animal cell culture
2. In vitro maintenance of cell line
3. Cell viability using (MTT) Assay
4. Cryopreservation & revival of cell line
5. Thin layer chromatography
6. Ion exchange chromatography
7. High performance liquid chromatography

### Food Safety & Security:

1. Introduction of food safety & hygiene practices (GMP, GHP, HACCP & COP)
2. Proximate Composition Analysis
3. Detection of Food adulterants in dairy products
4. Food quality evolution parameters
5. Advanced scientific equipments demonstration

6. New product development (NPD) & sensory evaluation

## WHO SHOULD ATTEND THE WORKSHOP?

The course is open for students of UG and PG Level with the background of Biochemical Engineering, Microbiology, Biochemistry, Biotechnology, Life Sciences, Chemical Sciences, Chemical Engineering & Technology and allied disciplines & Food Technology. The number of seats is limited to 100 candidates and the registration for the program will be made on the first come first serve basis.

Candidates outside of lucknow may be provided with lodging and fooding facilities in university's hostel on payment basis.

## EVENT SCHEDULE AND CRUCIAL DATES

**Registration Begins : Aug 05, 2025**

Last date for receipt of filled online application form: **AUGUST 21, 2025**

Commencement of workshop: **AUGUST 25, 2025**

## RESOURCE PERSONS

The faculty members, Supporting Staff Members of the Department to deliver lectures on the various topics to cover entire spectrum of the Workshop's theme.

