
Report On In-House Skill Development Training Program, Organized By Faculty Of Pharmacy & Co sponsored by SNETIC Pharma, Mumbai.

1 message

Communication Cell IUL <communications@iul.ac.in>

Sat, May 16, 2026 at 10:31 AM

Bcc: phfc@iul.ac.in

**A Brief Report On In-House Skill Development Training Program
(For B.Pharm & M.Pharm Students) - “Integrated Laboratory & Research Skill Development”
Organized By Faculty Of Pharmacy, Integral University & Co sponsored by SNETIC Pharma,
Mumbai
09 March to 16 March 2026**

The Department of Pharmacy organized a **one-week In-House Skill Development Training Program** entitled “*Integrated Laboratory & Research Skill Development*” from **09 March to 16 March 2026** co-sponsored by **SNETIC Pharma, Mumbai**. The program was designed to enhance the **practical knowledge, laboratory skills, and research competencies** of B.Pharm and M.Pharm students. Emphasis was given to **hands-on training, analytical techniques, and experimental methodologies**, aligning with the requirements of academia and the pharmaceutical industry.

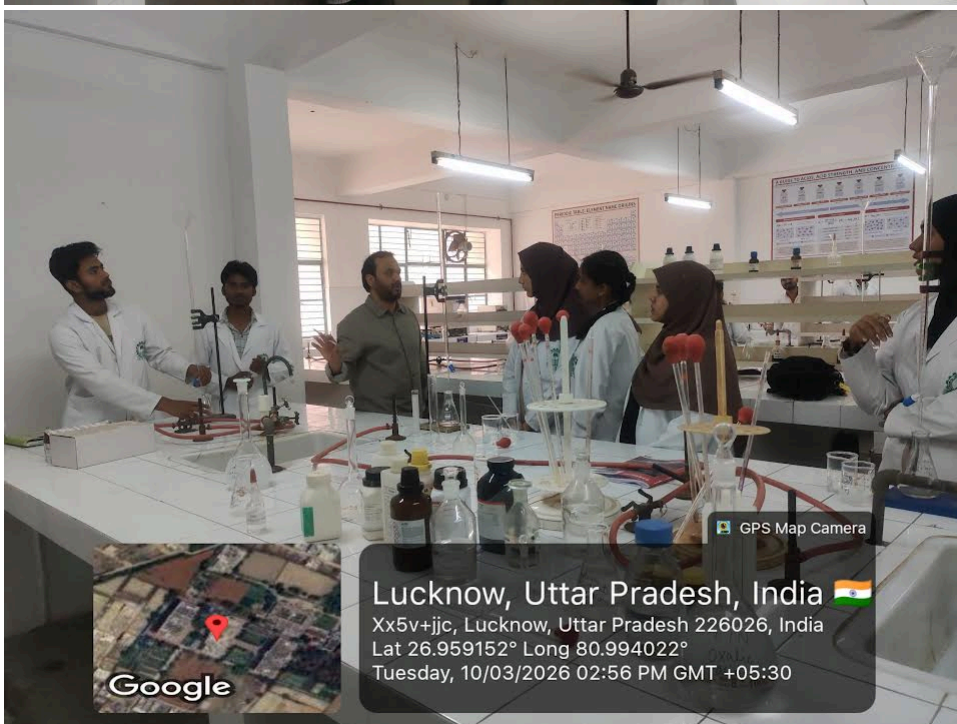
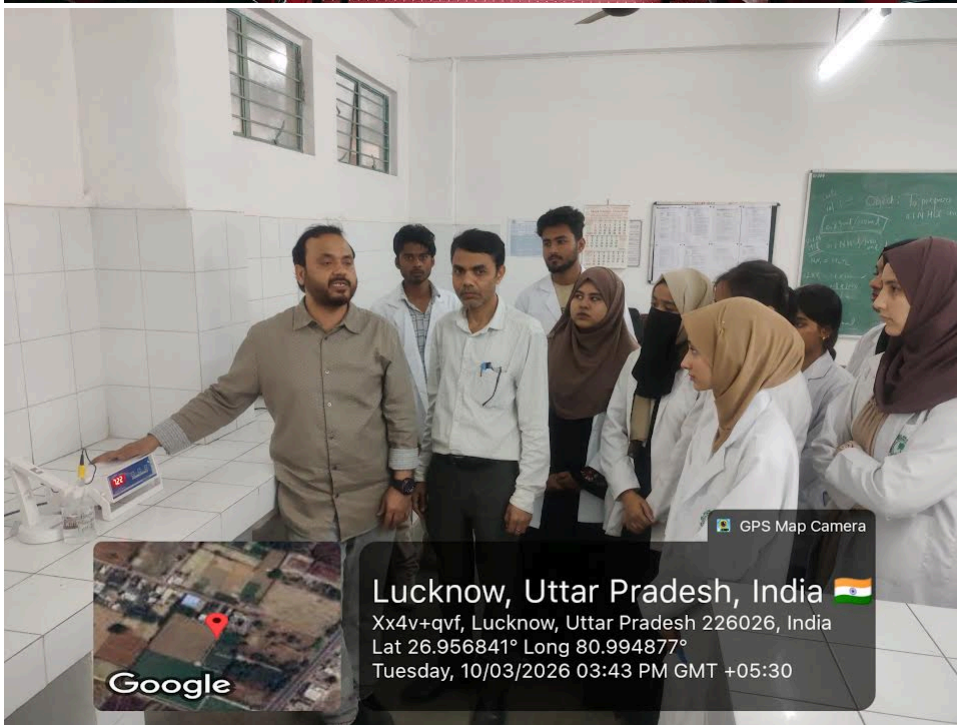
The Objectives of the Program were as follows:

- To enhance laboratory technical skills among students
- To provide hands-on training in preparation of reagents and buffer systems
- To impart practical knowledge of analytical instruments like UV-Visible Spectroscopy and HPLC
- To train students in experimental animal handling and drug administration techniques
- To promote research-oriented learning and experimental accuracy

Program Structure: The training program was structured into **three major modules**, combining both **theoretical concepts and practical training sessions**.

Details of Modules Conducted**Module 1: Laboratory Reagents, Solutions & Buffers****Moderator: Dr Ahsan Ahmad Khan****Key Highlights:**

- Understanding types of reagents and chemicals
- Preparation of molar, normal and percentage solutions
- Concept and preparation of buffer systems
- Standardization of solutions
- Proper labeling, storage and documentation



Module 2: Analytical Instrumentation – UV-Visible Spectroscopy and HPLC

Moderator: Dr Shom Prakash Kushwaha & Dr Mohammad Shariq

Key Highlights:

- Principles of UV-Visible Spectroscopy and HPLC
- Instrument components and working
- Sample preparation techniques
- Calibration curve development
- Basic troubleshooting and maintenance



Module 3: Experimental Animal Handling, Dose Calculation & Drug Administration Techniques

Moderator: Dr Mohammad Ahmad

Key Highlights:

- Types of laboratory animals and ethical guidelines
- Handling and restraining techniques
- Dose calculation based on body weight and surface area
- Routes of administration (Oral, IP, SC, IV)
- Preparation of dosing solutions

Apart from internal moderators, we were honored to host **Dr. Pragati Shakya, Scientific Officer, FDA, U.P.** as an *External Expert* for this In-House Skill Development Training Program. During her insightful session, Dr. Shakya shared her vast expertise with our trainees, focusing on the core pillars of modern

analysis emphasized on applying advanced principles of analytical instrumentation to prepare high-quality samples, mastering the generation of calibration curves for reliable quantification and correctly interpreting analytical results to ensure safety and efficacy in pharmaceutical research.

Heartiest gratitude to Dr. Shakya for bridging the gap between academic learning and industry and regulatory standards



After completion of the training program, students were achieving following learning outcomes

- Prepare laboratory reagents, buffers and standard solutions accurately
- Operate analytical instruments such as UV-Vis and HPLC
- Perform calibration and interpret analytical data
- Handle laboratory animals ethically and safely
- Calculate drug doses and administer drugs using different routes

- Follow Good Laboratory Practices (GLP) and documentation standards

After completion of all modules an **Assessment & Feedback session** was conducted by **Dr. Mohd. Shariq** in which a Quiz was taken having questions from all training Modules along with feedback was collected from participants regarding the quality of training, content delivery, and practical exposure. Majority of participants rated the program as **excellent/good**, students appreciated the **hands-on training approach**. Suggestions were received for increasing duration of practical sessions

A total of **no. of 73 students** actively participated in the training program. Attendance was collected of all sessions. All participants were awarded **Certificates of Participation** upon successful completion and assessment of the training program.

This **In-House Skill Development Training Program** was successfully conducted and achieved its intended objectives which also mapped with Sustainable Development Goals (SDG) 4,7 &17. The program significantly contributed to improving the **technical competence, analytical skills, and research aptitude** of students. Such initiatives are essential for bridging the gap between **theoretical knowledge and practical application**, and the department aims to continue organizing similar programs in the future

Training Coordinator : Prof. Tarique Mahmood



Prof. (Dr.) Juber Akhtar,
Head,
Department of Pharmacy.

Prof. (Dr.) Syed. Misbahul Hasan,
Dean,
Faculty of Pharmacy