



NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY
(PHARMACY INSTITUTE), GREATER NOIDA, U.P. 201306

A Report on
Modern Pharmacy Practices: Drug Development, Regulations,
and Patient Care

Noida Institute of Engineering and Technology (Pharmacy Institute), Greater Noida, organized a short-term certification course for Bachelor of Pharmacy students on the topic **“Modern Pharmacy Practices: Drug Development, Regulations, and Patient Care”** from **5th August 2024 to 7th August 2024**. This course was conducted to provide undergraduate students with a comprehensive understanding of the evolving landscape of pharmacy to the students. It covered some key aspects of pharmaceutical research, regulatory frameworks, and the pharmacist’s role in healthcare. On the **first day, Dr. Mohd. Shahar Yar**, Professor, Jamia Hamdard, explored the process of drug discovery and development, focused on the preclinical and clinical trial phases. Further, covered modern approaches such as biopharmaceuticals, nanotechnology-based drug delivery, and artificial intelligence in drug design. The significance of pharmacokinetics and pharmacodynamics in optimizing drug therapy was also emphasized. **Dr. Harish Dureja**, MDU, Rohtak, highlighted the concept of regulatory affairs and their compliance on the next day. Topics included drug approval processes, pharmacovigilance, adverse drug reaction (ADR) monitoring, and post-market surveillance. Students learned about the importance of documentation in regulatory compliance. On the last day, the course addressed by **Dr. Avijit Mazumder**, Director, NIET (Pharmacy Institute), on patient care and clinical pharmacy, emphasizing the pharmacist’s role in medication therapy management. Topics such as personalized medicine, drug interactions, and patient counselling were discussed. The course concluded with a case study session where participants analysed real-world scenarios related to medication safety and patient-centric approaches. By the end of the course, students gained valuable insights into modern pharmacy practices, equipping them with essential skills in drug development, regulatory compliance, and patient care to excel in the evolving pharmaceutical industry.



