



# FACULTY DEVELOPMENT PROGRAM (FDP) 1.0

on

## “Innovating Pharmacy Education with Python, AI, Machine Learning and Psychology”



Python



AI



Machine Learning



Psychology

Mode: Online

Last Date of Registration  
25<sup>th</sup> July, 2026



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Organized by:  
School of Pharmaceutical Education and Research,  
Jamia Hamdard, New Delhi

in collaboration with:  
P.R.S Educational Trust and  
LLRM Medical College,  
Meerut

### **About Jamia Hamdard University, New Delhi, India**

Jamia Hamdard (Hamdard University), New Delhi, was conferred the status of a "Deemed to be University" by the Government of India under Section 3 of the UGC Act in 1989. The University has been accredited with an "A" Grade by NAAC in its first three cycles and an "A+" Grade in Cycle IV. With eleven schools offering programmes from Diploma to Ph.D. levels, Jamia Hamdard is a leading institution dedicated to healthcare education, encompassing Pharmacy, Medicine, Unani Medicine, Nursing, Biological Sciences, Chemical Sciences, and Allied Health Sciences. The University hosts the Hamdard Institute of Medical Sciences and Research and maintains active collaborations with internationally reputed industries and research organizations. It is supported by the prestigious DST-PURSE programme and has been recognized as a Centre of Excellence in Unani Medicine by CCRUM, Ministry of AYUSH, Government of India. Jamia Hamdard has earned national and international recognition for academic excellence. In NIRF 2025, it ranked 1st in Pharmacy, 40th in Medical, 47th among Universities, 74th Overall, and 87th in Management. In the QS World University Rankings 2026, it was placed 59th globally in Pharmacy & Pharmacology, 498th in Asia, and 1401+ worldwide. In THE World University Rankings 2026, it was ranked 801–1000 globally and 301–350 in Asia. The University was also ranked #27 in India by U.S. News Best Global Universities 2025–26 and placed in the 401–500 band globally in Pharmacy and Pharmaceutical Sciences by the Shanghai Ranking 2025. Notably, Jamia Hamdard's Pharmacy programme has secured the No. 1 NIRF Pharmacy ranking seven times, reaffirming its leadership in pharmaceutical education and research.

### **About P.R.S Educational Trust**

Pharmacy education in India faces several challenges in today's specialised and globalised world, creating an urgent need for curriculum reforms aligned with current and future developments in the pharmaceutical profession. Traditional teaching methods, limited learning opportunities, and uncertainty about career paths have led to confusion among students. Recognising these issues, P.R.S Educational Trust was established in 2016 by Smt. Pramod Sharma along with a dedicated team to promote value-based education and professional growth. The Trust aims to support the healthcare and pharmaceutical sectors by providing education, training, certification programmes, publications, networking opportunities, and career development resources. P.R.S is also an international membership organisation of pharmaceutical professionals committed to advancing the profession and supporting emerging healthcare professionals. Its members contribute significantly to the fields of biotechnology, pharmaceuticals, and medical devices, while promoting knowledge-sharing, innovation, and professional excellence across the healthcare industry.

### **About LLRM Medical College, Meerut**

LLRM Medical College is a renowned government medical institution in Uttar Pradesh recognized for excellence in medical education, clinical training, healthcare services, and biomedical research. The college is committed to developing competent healthcare professionals through quality education, practical exposure, and research-oriented learning. With experienced faculty members and advanced teaching facilities, the institution provides comprehensive academic and clinical training across various medical disciplines. LLRM Medical College actively promotes interdisciplinary collaboration, innovation, and evidence-based healthcare practices. The institution regularly organizes academic programs, workshops, conferences, and professional training activities to enhance knowledge and healthcare delivery systems. Its associated teaching hospitals provide extensive clinical exposure and patient care services, contributing significantly to public health. Through its dedication to academic excellence and healthcare advancement, LLRM Medical College continues to play an important role in strengthening medical and healthcare education in India.

### **About FDP**

The rapid advancement of Artificial Intelligence (AI), Machine Learning (ML), Python programming, and psychological sciences is significantly transforming healthcare, pharmaceutical sciences, and higher education. In the modern academic environment, pharmacy educators are expected to integrate digital technologies, data-driven approaches, and learner-centered psychological strategies into teaching, research, and professional practice. In line with the vision of the National Education Policy (NEP) 2020 and the evolving Pharmacy Council of India (PCI) curriculum, the Online Faculty Development Program (FDP) 1.0 on "Innovating Pharmacy Education with Python, AI, Machine Learning and Psychology" has been designed to equip faculty members with interdisciplinary knowledge and future-ready skills.

The FDP aims to provide participants with both foundational and practical understanding of Python programming, Artificial Intelligence, Machine Learning, AI-assisted educational tools, and psychological principles that enhance teaching effectiveness, student engagement, and academic productivity. The program includes expert lectures, interactive demonstrations, case studies, and hands-on learning sessions led by experienced academicians and professionals. Participants will gain exposure to modern computational tools, healthcare analytics, innovative educational strategies, and digital research methodologies relevant to pharmaceutical sciences and healthcare education.

## Objectives of FDP 1.0

- Introduce fundamentals of Python, AI, and ML in pharmacy and healthcare education.
- Familiarize participants with AI tools and digital technologies for teaching and research.
- Enhance faculty skills in technology-enabled and industry-oriented education.
- Provide hands-on exposure to Python-based data analysis and AI applications.
- Improve teaching-learning processes through psychological and communication principles.
- Promote innovation, interdisciplinary learning, and research productivity.
- Support NEP-aligned, skill-based, and digitally empowered curriculum practices..

## Expected Outcomes

After successful completion of the FDP, participants will be able to:

- Understand the fundamentals and applications of Python, AI, and Machine Learning in pharmacy and healthcare.
- Apply AI-assisted tools for academic, research, and professional activities.
- Perform basic data analysis, visualization, and interpretation using Python.
- Integrate innovative digital teaching methodologies into pharmacy education.
- Utilize psychological principles for effective communication, student motivation, and learning enhancement.
- Develop interdisciplinary approaches for research, innovation, and healthcare problem-solving.
- Enhance professional competencies aligned with modern pharmaceutical education and industry requirements.

## Who Can Attend

- Faculty members from Pharmacy, Medical, Allied Health Sciences, and Life Science institutions
- Research scholars and postgraduate students
- Academic administrators and educators
- Healthcare professionals and industry participants
- Individuals interested in AI, Python, Machine Learning, and educational innovation

## Registration Details



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REGISTRATION	
<b>Last Date of Registration</b>	<b>25<sup>th</sup> July 2026</b>
<b>Faculty Members/Research Scholar/Industry Professionals</b>	<b>Rs. 999/-</b>
<b>Group Registration Minimum 5 participants required</b> <b>Registration Fee: Rs699/- per participant</b>	
<i>Note: For group registration: a single payment of Rs. 3495/- must be made by one candidate on behalf of all five members. Each of five members must upload the same payment screenshot in the payment proof upload section of the Google Form during registration. Individual payments of Rs. 699/- per member will not be accepted</i>	
PR.S. Educational Trust Bank Name: Central Bank of India Account Name: PRS Educational Trust Account Number: 5399527741 IFS Code: CBIN0283749 Google Pay Number: 8766381032 PhonePe Number: 8766381032	<b>QR Code for Payment- QR Code-1</b> 
<b>For Queries Please Contact:</b> <b>+91-9319946511 (Whatsapp),</b> <b>+91-8009218455, +91-8766381032</b>	<b>QR Code-2</b> 

## Certification

E-Certificate will be provided to participants upon successful completion of the FDP.

## Program Schedule

**Total Program Duration: 12.5 Hours | 5 Days | 10 Topics**

Day / Date	Topic	Expected Outcomes
Day-1	1. Foundations of Machine Learning for Healthcare and Pharmaceutical Applications 2. Python for Healthcare Data Analysis and Visualization	<ul style="list-style-type: none"><li>Understanding ML Fundamentals</li><li>ML Applications in Healthcare</li><li>Python Data Handling</li><li>Healthcare Data Visualization</li></ul>
Day-2	3. Machine Learning Models in Precision Medicine and Drug Development 4. Python Applications in Bioinformatics and Multi-Omics Data Analysis	<ul style="list-style-type: none"><li>Precision Medicine Insights</li><li>Drug Development Modeling</li><li>Bioinformatics Data Processing</li><li>Multi-Omics Analysis Skills</li></ul>
Day-3	5. Machine Learning, IoT, and Big Data in Public Health and Food Systems 6. Statistical Inference and Hypothesis Testing Using Python	<ul style="list-style-type: none"><li>Public Health Analytics</li><li>IoT Data Integration</li><li>Statistical Testing Skills</li><li>Python-Based Inference</li></ul>
Day-4	7. AI in Personalized Medicine and Clinical Decision Support 8. AI in Drug Discovery and Pharmaceutical Research	<ul style="list-style-type: none"><li>Clinical Decision Support</li><li>Personalized Treatment Strategies</li><li>AI-Driven Drug Discovery</li><li>Pharmaceutical Research Applications</li></ul>
Day-5	9. AI in Pharmacy Automation and Public Health Analytics 10. Behavioral Psychology and Mental Health in Healthcare Education	<ul style="list-style-type: none"><li>Pharmacy Automation Concepts</li><li>Public Health Monitoring</li><li>Effective Student Engagement</li><li>Mental Health Awareness</li></ul>

### Organizing Board

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