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PRO- VICE CHANCELLOR

DR. VIJENDRA CHAUHAN,
DIRECTOR GENERAL - ACADEMIC
DEVELOPMENT



ORGANISING CHAIRPERSON :
PROF.(DR.) PREETI KOTHIYAL



CONVENER :
PROF. (DR.) GANESH KUMAR



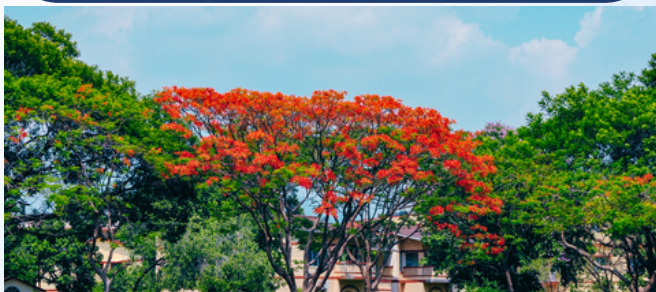
CO-CONVENERS :
DR. UJJWAL NAUTIYAL
DR. PRIYANK PUROHIT



COORDINATORS :
DR. SRISHTI DORA
MR. ABHISHEK CHANDOLA



ORGANISING TEAM :
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DR. RAGHAV DIXIT
MR. RAHUL PANDEY
DR. BHANWAR SINGH CHAUDHARY
MRS. HIMANSHI RATHAUR
MR. HARSH PRATAP SINGH



PROGRAM HIGHLIGHTS

AI & ML for Pharmacy Educators

Basics in Python Programming

Data Analytics in Pharmacy

Digital Therapeutics (DTx)

Registration Details

REGISTRATION FEE

₹1500/-

LAST DATE FOR REGISTRATION



23th June 2026

SCAN TO REGISTER



SCAN TO PAY



WHO CAN PARTICIPATE ?



Faculty Members



Research Scholars



Industry Professionals



LIMITED SEATS!



CERTIFICATE OF
PARTICIPATION



INTERACTIVE SESSIONS



SCHOOL OF PHARMACEUTICAL SCIENCES SWAMI RAMA HIMALAYAN UNIVERSITY

IN ASSOCIATION WITH

Indian Pharmaceutical Association, UK State Branch

&

Association of Pharmaceutical Teachers of India, UK State Branch

IN COLLABORATION WITH

SCHOOL OF SCIENCE AND TECHNOLOGY

ORGANISES

A FIVE- DAY

FACULTY DEVELOPMENT PROGRAMME

“FACULTY EMPOWERMENT – AN INTRODUCTION TO AI AND ML FOR PHARMACY TEACHERS”



26th June to 30th June 2026

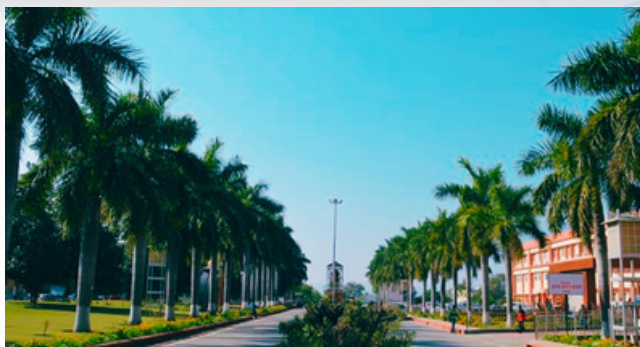


B. C. Roy Auditorium,
Swami Rama Himalayan University,
Jollygrant, Dehradun, Uttarakhand



For any queries contact:

Prof. (Dr.) Ganesh Kumar : 9897435971



ABOUT SWAMI RAMA HIMALAYAN UNIVERSITY

Swami Rama Himalayan University (SRHU), Dehradun, a NAAC A+ accredited institution, is a premier private university of North India, dedicated to transforming lives through holistic education, integrated healthcare, rural development, and social outreach. With the legacy of the Himalayan Hospital and Himalayan Institute of Medical Sciences—the first and largest NABH-accredited private teaching hospital and medical college in Uttarakhand. SRHU provides a unique platform for students to evolve into skilled, ethical, and committed professionals. Housing a multispecialty hospital, Cancer Research Institute, Ayurveda Centre, Rural Development Institute and eight diverse schools, SRHU fosters interdisciplinary learning, cutting-edge research, and well-rounded development, empowering students to lead and excel in their chosen fields.

ABOUT SCHOOL OF PHARMACEUTICAL SCIENCES

The School of Pharmaceutical Sciences has been striving to offer exceptional pharmacy education. With highly experienced faculty, state-of-the-art facilities, and a vibrant academic environment, the school nurtures innovation, collaboration, and interdisciplinary learning to thrive with an aim to become an institution of excellence. The vision of School of Pharmaceutical Sciences is to groom highly competent pharmacy professionals who can effectively contribute to pharmaceutical industry growth and the healthcare sector, thereby contributing to the upliftment of mankind.

VISION

To become an institution of excellence through continuous advancement of pharmaceutical research, technology, and education.

MISSION

To nurture highly competent pharmacy professionals through education and research to provide trained human resource for the pharmaceutical industry & for improved healthcare of society.

ABOUT THE FDP

The Pharmacy Council of India (PCI) has introduced significant curriculum reforms incorporating Artificial Intelligence (AI), Machine Learning (ML), Digital Health Technologies, and Data Analytics into pharmacy education. As healthcare rapidly embraces digital transformation, pharmacy educators must equip themselves with the knowledge and practical skills required to train the next generation of pharmacists.

This Faculty Development Programme (FDP) is designed to bridge the gap between traditional pharmacy education and emerging technological advancements. It offers participants a unique opportunity to understand how AI and ML can be integrated into teaching, research, clinical decision-making, drug discovery, and patient care. Through expert-led sessions and hands-on training, faculty members will gain practical exposure to modern tools and applications that are reshaping pharmaceutical sciences and healthcare globally. The programme aligns with the vision of the National Education Policy (NEP 2020) and the revised PCI curriculum, promoting innovation, interdisciplinary learning, research excellence, and digital competency among pharmacy professionals.

Key Learning Areas

-  Hands-On Training – AI Tools for Pharmacy Practice – ChatGPT, Gemini, AI-powered drug information retrieval, literature search, and patient counselling.
-  Hands-On Training – Machine Learning & Drug Discovery – Python basics, ML algorithms, ADMET prediction, virtual screening, and lead identification.
-  Hands-On Training – AI in Pharmacokinetics & Formulation Development – PBPK modeling, bioavailability prediction, formulation optimization, and novel drug delivery applications.
-  Hands-On Training – AI in Clinical Pharmacy & Pharmacovigilance – Drug interaction analysis, clinical decision support, ADR detection, and signal detection.
-  Hands-On Training – AI-Integrated Education & Research – Curriculum design, research writing, data analysis, assessment development, and ethical AI use.
-  Hands-On Training – AI chatbots, Google Colab, PK/PD prediction, clinical decision-support tools, and AI-powered research platforms.
-  Expert Technical Sessions –
 - Digital Therapeutics (DTx)
 - PBPK Modeling & Simulation
 - AI & ML for Pharmacy Educators.

GUEST OF HONOR



Prof. (Dr.) Vibhu Sahani
Member - Pharmacy Council of India
New Delhi, India

ACADEMIC EXPERT



Prof. (Dr.) Harish Dureja
Dean, Research & Development;
Dean, Faculty of Pharmaceutical Sciences,
Maharshi Dayanand University, Rohtak.



Prof. Prashant S. Kharkar
Department of Pharmaceutical Sciences
Institute of Chemical Technology,
Mumbai



Prof. (Dr.) Pramod Kumar
Professor & Dean
School of Science & Technology
Swami Rama Himalayan University

INDUSTRIAL EXPERT



Mr. Anuj Saini
Global Head- Clinical Management
Dr. Reddy Laboratories Ltd,
Banjara Hills, Hyderabad



Mr Alok Kumar
Sr. Associate-Projects
Cognizant Technology Solutions
Corporation Gurugram



Mr. Ashish Kumar
Consultant
EC Council and RedHat

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REPORT ON

Five-Day Faculty Development Programme

"Faculty Empowerment – An Introduction to AI and ML for Pharmacy Teachers"

Name of the Activity: Faculty Development Programme

Date: 26th –30th June 2026

No. of Attendees: 59

Faculty In-charge: Prof. (Dr.) Ganesh Kumar, Dr. Ujjwal Nautiyal, Dr. Priyank Purohit, Dr. Arvind Singh Farswan, Dr. Raghav Dixit, Mr. Rahul Pandey, Mr. Abhishek Chandola, Dr. Srishti Dora, Mr. Harsh Pratap Singh

The School of Pharmaceutical Sciences (SPS), Swami Rama Himalayan University (SRHU), in association with the Indian Pharmaceutical Association (IPA), Uttarakhand State Branch, and the Association of Pharmaceutical Teachers of India (APTI), Uttarakhand State Branch, in collaboration with the School of Science and Technology, successfully organized a Five-Day Faculty Development Programme (FDP) titled "Faculty Empowerment – An Introduction to AI and ML for Pharmacy Teachers" from 26th to 30th June 2026.

The programme was conceptualized with the vision of preparing pharmacy educators for the rapidly evolving technological landscape where Artificial Intelligence (AI), Machine Learning (ML), Digital Health, and Data Science are increasingly influencing pharmaceutical education, research, healthcare delivery, and patient outcomes. The FDP brought together academicians, researchers, healthcare professionals, and industry experts to create a dynamic platform for learning, interaction, and professional development.

Day 1: Building Foundations for AI-Driven Pharmacy Education

The programme commenced with an inaugural ceremony marked by the traditional lamp-lighting ceremony, symbolizing knowledge, wisdom, and enlightenment. The keynote speaker, Dr. Prashant Kharkar, was warmly welcomed with a sapling, representing sustainability, growth, and a commitment to nurturing future innovations.

The gathering was welcomed by Prof. (Dr.) Preeti Kothiyal, Dean, School of Pharmaceutical Sciences, who emphasized the importance of embracing technological advancements and cultivating a culture of continuous learning among educators. She highlighted the need for faculty members to remain adaptable and technologically proficient to meet the changing expectations of higher education and healthcare systems.

Prof. (Dr.) Preeti Kothiyal
Dean, SPS, SRHU

Dean

School of Pharmaceutical Sciences
Swami Rama Himalayan University
Dehradun

Dr. Priyank Purohit
Associate Professor

Dr. Srishti Dora
Assistant Professor

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The Hon'ble Vice-Chancellor delivered an inspiring and thought-provoking address, emphasizing that "Humour is the precursor of creativity." He encouraged faculty members to stay connected with reality, make informed decisions, and approach innovation with patience, resilience, and a long-term vision. Elaborating on the Return on Investment (ROI) model, he explained that meaningful achievements often require sustained effort and the ability to withstand initial setbacks before realizing significant outcomes.

Drawing examples from rose oil cultivation, he highlighted that the venture may incur losses during the first three years, recover investments by the fourth year, and generate substantial profits from the fifth year onwards. Through this analogy, he underscored the importance of perseverance and strategic planning in research and innovation. He further stressed the significance of understanding currency valuation and economic considerations while planning research initiatives and investments.

Relating these principles to clinical trials, scientific research, and innovation-driven projects, he noted that substantial investments are often required long before tangible results become visible. However, with consistent effort, evidence-based decision-making, and a clear vision, such investments can lead to transformative discoveries and impactful scientific contributions. His address motivated participants to embrace challenges, think creatively, and remain committed to excellence in their academic and research endeavors.

The keynote session was delivered by Dr. Prashant Kharkar, a distinguished pharmaceutical scientist from the Institute of Chemical Technology, Mumbai. His lecture, titled "*Artificial Intelligence and Machine Learning for Pharmacy Educators and Knowledge Providers: Opportunities, Challenges, and the Way Forward*," provided participants with a comprehensive overview of the growing role of AI and ML in pharmaceutical sciences. He discussed applications ranging from drug discovery and development to pharmacovigilance, clinical pharmacy, regulatory sciences, therapeutic drug monitoring, and digital pharmaceuticals. He emphasized that future pharmacy professionals must possess competencies in data science, automation, and AI-assisted decision-making to remain relevant in an increasingly technology-driven environment.

The inaugural day also featured an intensive hands-on training session by Mr. Alok Kumar, Senior Associate-Projects, Cognizant Technology Solutions Corporations, Gurugram, focused on introducing participants to AI-powered tools and platforms. Faculty members explored conversational AI systems such as ChatGPT and Gemini and learned how these tools can assist in teaching, content generation, lesson planning, academic writing, and student engagement. Practical demonstrations showcased the use of AI for drug information retrieval, literature searching, evidence synthesis, and patient counseling. Participants actively engaged in exercises that involved generating counseling scripts, designing educational content, and evaluating AI-generated responses against traditional pharmaceutical resources. These activities provided valuable insights into the opportunities and limitations of AI in pharmacy practice and education.



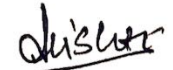
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Day 2: Exploring Machine Learning in Drug Discovery and Healthcare

The second day focused on strengthening participants' understanding of Machine Learning and its practical applications in pharmaceutical research and healthcare.

The day began with a hands-on session on "ML Fundamentals and Drug Discovery Applications" by Mr. Ashish Kumar, Consultant, EC Council and RedHat. Participants were introduced to the basic principles of Machine Learning, including supervised and unsupervised learning approaches, data classification, regression models, and clustering techniques. Through practical demonstrations using Google Colab, faculty members gained exposure to Python-based pharmaceutical data analysis and learned how machine learning algorithms can support decision-making in drug discovery.

The session also introduced participants to advanced AI-enabled platforms such as pkCSM and SwissADME, which are widely used for predicting pharmacokinetic and toxicity parameters of drug candidates. Through guided exercises, participants explored ADMET prediction, drug solubility modeling, and virtual screening approaches that are increasingly employed in modern pharmaceutical research.

The subsequent session focused on Artificial Intelligence in Pharmacokinetics and Drug Formulation. Participants learned about Physiologically Based Pharmacokinetic (PBPK) modeling and simulation tools that enable prediction of drug behavior within the human body. Discussions highlighted how AI and ML are transforming bioavailability prediction, dosage form optimization, formulation development, and personalized therapeutic strategies.

The afternoon technical sessions enriched participants with broader perspectives on healthcare innovation. Dr. Pramod Kumar, Dean, School of Science and Technology, delivered an insightful lecture on "*Artificial Intelligence in Healthcare*." He discussed AI applications in disease prediction, clinical decision support systems, healthcare analytics, personalized medicine, and patient management. The session emphasized the importance of interdisciplinary collaboration and digital competency among healthcare professionals.

The final session of the day was delivered by Dr. Anuj Saini, Global Head – Clinical Management, Dr. Reddy's Laboratories, Hyderabad. His expert lecture on "*Fundamentals of PBPK Modeling and Simulation and its Role in Drug Discovery and Development*" provided participants with valuable industry insights. He demonstrated how simulation-based approaches are reducing development timelines, improving regulatory decision-making, and accelerating pharmaceutical innovation. The interaction enabled faculty members to appreciate the growing convergence between artificial intelligence, pharmaceutical sciences, and industrial research.

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Day 3: Digital Transformation and Emerging Healthcare Technologies

The third day focused on regulatory advancements, digital therapeutics, and clinical applications of Artificial Intelligence.

The programme was honored by the presence of Guest of Honor, Prof. (Dr.) Vibhu Sahani, Member, Pharmacy Council of India (PCI), New Delhi. During his address, he highlighted the transformative journey of pharmacy education in India and discussed recent initiatives undertaken by PCI to strengthen professional standards and healthcare integration. He elaborated on the implementation of the Healthcare Professionals Registry (HPR), Ayushman Bharat Health Account (ABHA), digital healthcare initiatives, and the integration of emerging technologies into healthcare systems.

Prof. Sahani emphasized the need to bridge the gap between academia and industry by adopting skill-based curricula and incorporating emerging disciplines such as Artificial Intelligence, Machine Learning, Digital Health, and Digital Therapeutics into pharmacy education. His address inspired participants to actively contribute toward creating future-ready pharmacy graduates equipped with technological competencies.

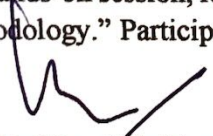
The technical session of the day was delivered by Dr. Harish Dureja, Dean, Research and Development, Maharshi Dayanand University, Rohtak. His lecture on "*Digital Therapeutics: Transforming Healthcare Through 21st Century Innovation*" introduced participants to the rapidly evolving field of software-based therapeutic interventions. He explained how evidence-based digital therapeutics are being used to prevent, manage, and treat various disease conditions while improving patient adherence, behavioral outcomes, and healthcare accessibility.

The afternoon hands-on session conducted by Mr. Ashish Kumar focused on Artificial Intelligence in Clinical Pharmacy and Pharmacovigilance. Participants explored AI-powered drug interaction checkers, clinical decision support systems, natural language processing tools, adverse drug reaction monitoring systems, and signal detection methodologies. Through case studies and practical exercises, participants performed medication reviews, prescription analyses, and drug utilization evaluations using AI-assisted platforms. The session highlighted the significant role of AI in improving medication safety, enhancing pharmacovigilance activities, and supporting evidence-based clinical decision-making.

Day 4: Integrating AI into Teaching, Research, and Academic Excellence

The fourth day was dedicated to empowering educators with advanced AI tools for teaching, curriculum design, research methodology, and academic assessment.

The hands-on session, led by Mr. Ashish, focused on "AI-Integrated Pharmacy Education and Research Methodology." Participants explored innovative strategies for incorporating Artificial Intelligence into

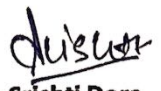


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classroom teaching and research activities. Demonstrations showcased how AI can assist in lesson planning, curriculum development, presentation preparation, educational content creation, and student engagement.

Participants were introduced to advanced research support tools such as Research Rabbit and Elicit, which facilitate literature reviews, citation mapping, evidence synthesis, and research discovery. The session demonstrated how AI can significantly enhance research productivity while supporting evidence-based academic writing and scientific communication.

An important component of the session addressed ethical considerations associated with AI adoption. Discussions focused on responsible AI usage, academic integrity, data privacy, transparency, algorithmic bias, and ethical governance. Faculty members were encouraged to use AI as a supportive tool that complements human expertise rather than replacing critical thinking and professional judgment.

The practical component of the workshop enabled participants to create AI-powered question banks, competency-based assessments, digital quizzes, and automated evaluation tools. A capstone project challenged participants to design comprehensive AI-integrated course modules that incorporated innovative teaching strategies, assessment methods, and research activities.

Beyond the technical sessions, participants visited the Swami Rama Centre and Rural Development Institute, gaining first-hand exposure to the university's community engagement initiatives, healthcare outreach programs, and rural development activities. The visit reinforced the importance of integrating technological advancement with social responsibility and community service.

The day concluded with a rejuvenating yoga session conducted by the School of Yoga Sciences. The session emphasized mindfulness, mental resilience, stress management, and holistic well-being, reminding participants of the importance of maintaining balance between technological advancement and human wellness.

Day 5: From Artificial Intelligence to Authentic Intelligence

The final day offered a unique experiential learning opportunity at Sadhana Mandir, Rishikesh, under the theme "From Artificial Intelligence to Authentic Intelligence: A Meditation Experience."

The session encouraged participants to reflect on the human dimensions of intelligence, including self-awareness, mindfulness, empathy, emotional intelligence, and ethical leadership. Through guided meditation and reflective discussions, participants explored how authentic intelligence complements artificial intelligence in shaping compassionate educators, responsible researchers, and ethical healthcare professionals.



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The serene environment of Sadhana Mandir provided an ideal setting for introspection and personal growth. Participants appreciated the opportunity to disconnect from routine professional demands and reconnect with the values that underpin meaningful teaching, leadership, and healthcare practice.

The programme concluded with a grand Valedictory Ceremony. Prof. (Dr.) Ganesh Kumar, Convener of the FDP, presented a comprehensive report summarizing the major activities, expert lectures, hands-on sessions, and key learning outcomes of the five-day programme. He acknowledged the enthusiastic participation of delegates and emphasized the growing importance of Artificial Intelligence and Machine Learning in transforming pharmacy education, research, and healthcare practice.

Certificates were distributed to all participants in recognition of their successful completion of the programme. Participants shared positive feedback and expressed appreciation for the diverse learning opportunities, practical exposure, expert mentorship, and collaborative environment provided throughout the FDP.

Conclusion

The Five-Day Faculty Development Programme successfully achieved its objective of empowering pharmacy educators with foundational knowledge and practical competencies in Artificial Intelligence and Machine Learning. Through a carefully curated blend of expert lectures, hands-on workshops, industry interactions, experiential learning, and wellness activities, the programme created a holistic learning environment that addressed both technological advancement and human development.

More than a professional development initiative, the FDP served as a catalyst for innovation, collaboration, and academic transformation. It strengthened participants' confidence in integrating AI-driven approaches into teaching, research, assessment, and healthcare practice while reinforcing the importance of ethics, responsibility, and human-centered learning.

As participants returned to their respective institutions, they carried with them not only new skills and technological insights but also renewed inspiration to shape the future of pharmacy education through innovation, excellence, and lifelong learning. The programme concluded with a shared commitment to harnessing the power of Artificial Intelligence responsibly, ensuring that technological progress continues to serve humanity and advance the profession of pharmacy.

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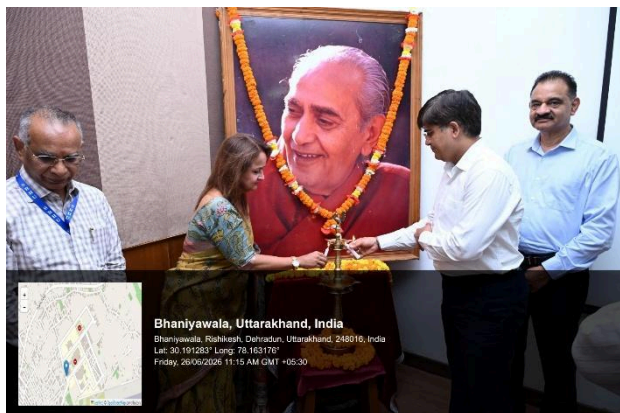


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SOME GLIMPSES OF THE FACULTY DEVELOPMENT PROGRAMME



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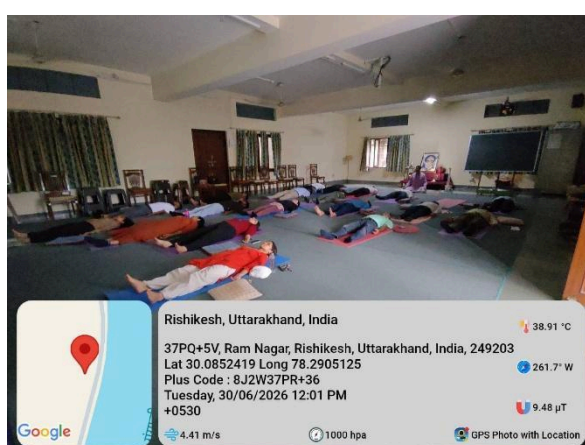
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