

WHO CAN PARTICIPATE

This short-term course is specifically designed for UG/PG/PhD students, researchers, faculties, and technical staff from the branches of engineering/Science who are interested in the field of quantum communication systems, wireless communication systems, machine learning, artificial intelligence, quantum communication and information theory, quantum computing, data science, and predictive technologies.

REGISTRATION

Name: _____

Designation: _____

Institute: _____

Address: _____

Email ID: _____

Contact No: _____

Undertaking:

I shall abide by rules and regulations and shall attend course. Failing which certificate may not be issued.

Signature of Participant

CONTACT

Dr. Rajnish Kumar

Associate Professor

**Department of Pharmaceutical Engineering
Indian Institute of Technology (BHU), Varanasi**

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ABOUT NM-ICPS

The National Mission on Cyber-Physical Systems (NM-ICPS) is identified as one such emerging field to have a significant impact on health care, urban transportation, water distribution, energy, urban air quality, manufacturing and governance. The activities envisioned under this Mission will give an impetus to Indian manufacturing via the invention of new products, services and the creation of skilled young human resource from technicians to, researchers and entrepreneurs. It will have modernisation and digitalisation of socio-technical systems and services.

ABOUT I-DAPT

The Interdisciplinary Data Analytics and Predictive Technologies (I-DAPT) has been regarded as one of the most prominent fields whose progress will add significant impact on various socio-economic issues. At IIT (BHU) the verticals 1) Telecommunications, 2) Power, 3) Road Transport and Highways, 4) Defense Research and Development, 5) Health and Family Welfare and 6) Other Areas such as Energy, Environment and Agri-Tech have been identified under IDAPT. The endeavour shall catalyse the creation of skilled young engineers, researchers, technicians, and entrepreneurs, together with human resource at all levels, besides becoming a key contributor to realizing the vision of "Digital India", "Innovate in India", and "Make in India".

ABOUT WORKSHOP

This STC aims to provide participants with an understanding of AI applications in drug discovery through practical and hands-on learning. The sessions will cover data preprocessing, machine learning, cheminformatics, bioinformatics, deep learning, virtual screening, and AI-based tools, supported by real-world case studies and interactive workshops

Short Term Course on

Transforming Healthcare with AI-Driven Drug Discovery

A TECHNOLOGY INNOVATION HUB

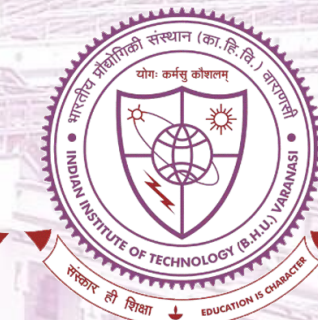
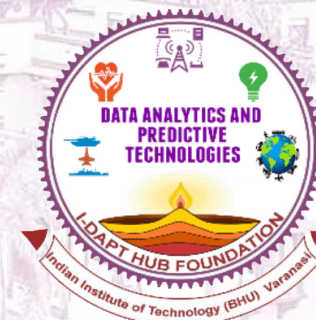
ON

INTERDISCIPLINARY DATA ANALYTICS AND PREDICTIVE TECHNOLOGY

(IDAPT)

Under

NATIONAL MISSION ON INTERDISCIPLINARY CYBER PHYSICAL SYSTEM (NM-ICPS)



December 01-05, 2026

Coordinators

Dr. Rajnish Kumar

ABOUT INSTITUTE



The Indian Institute of Technology (Banaras Hindu University) owes its existence to Mahamana Pandit Madan Mohan Malviya, Bharat Ratna-the founder of

the first residential university of modern India, the Banaras Hindu University. The three of the erstwhile engineering colleges of BHU, namely BENCO, MINMET and TECHNO, were merged to form the Institute of Technology (IT-BHU) in 1968 to provide an integrated educational base. The IT-BHU has been admitting students through the JEE conducted by the IIT's since 1972, and has been consistently ranked amongst the top few engineering institutions of the country. IT-BHU became IIT (BHU) in June 29, 2012 by an Act of Parliament. The Institute has maintained high academic standard since its inception. It has turned out luminary engineers and administrators who served the nation with great distinction.

ABOUT DEPARTMENT

The Department of Pharmaceutical Engineering at Indian Institute of Technology (IIT-BHU), Varanasi, provides quality education and research in pharmaceutical sciences and engineering. With experienced faculty, motivated students, and dedicated staff, the Department promotes innovation and interdisciplinary research in areas such as drug delivery, pharmaceutical technology, analysis, and computational drug design.

EMINENT SPEAKERS

- Dr. M Karthikeyan (National Chemical Laboratory, Pune)
- Dr. Priyanka Narad (ICMR, New Delhi)
- Dr. Lisha Wang (Karolinska Institutet, Sweden)
- Prof. B. Mishra (IIT (BHU) Varanasi)
- Dr. Rakesh Pandey (MMV, (BHU) Varanasi)
- Dr. Vikas Sharma (National institute of Virology, Pune)
- Dr. Om Jee Pandey (CSE, IIT(BHU), Varanasi)
- Prof. Senthil Raja (IIT (BHU) Varanasi)

KEY OBJECTIVES

- To give an in-depth knowledge of the drug discovery paradigm and artificial intelligence
- To provide hands-on training on QSAR, hit identification using deep learning, pharmacokinetic property prediction including toxicity, de novo ligand design using deep learning, and biomolecular simulations
- To brief the participants on the use of high-performance computers/super-computers (Param-Shivay) to ramp up the speed of computational modeling for drug discovery.
- To provide a networking opportunity to the participants to enhance broaden their research network.

REGISTRATION DETAILS

Registration Link:

<https://www.idapthub.org/applications/stc>

Last Date of Registration: October 20, 2023

Registration Fees (Including 18% GST)

Participation	Online	Offline
For UG, PG and PhD students:	Rs. 750	Rs. 1,500
Staff (Technical, Administrative and Others	Rs. 1,500	Rs. 3,000
For faculties, scientists and Post-doctoral Fellow	Rs. 2,000	Rs. 4,000
Industry Participants	Rs. 3,500	Rs. 7,000
International Participants	USD 100	NA

NOTE Registration fees will be Non-Refundable

Payment Mode:

Branch: SBI, IT(BHU), Varanasi

IFSC: SBIN0011445

Name: I-DAPT-HUB-FOUNDATION

Account No: 40298890505

Course Mode:

Both online and offline

In case of any difficulty, you can contact us at

Mobile number;

rajnish.phe@itbhu.ac.in