

ABOUT IIT (BHU) Varanasi



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

idential university of modern India, the Banaras Hindu University. IIT-BHU became IIT (BHU) in June 29, 2012 by an Act of Parliament. The Institute has maintained high academic standard since its inception.

ABOUT IIT PATNA

Indian Institute of Technology Patna is one of the new IITs established by an Act of the Indian Parliament on August 06, 2008. The Institute has developed modern facilities that are fully equipped with the state-of-the-art facilities that are routinely used to train and educate students.

ORGANIZING TEAM

Patron and Advisor

Prof. Pramod K Jain, Director, IIT (BHU) Varanasi

Organizing Committee

Prof. Rajiv Prakash, Dean (R&D) IIT (BHU) Varanasi

Prof. P. K. Roy, IDAPT, IIT (BHU) Varanasi

Prof. V. K. Dubey, IDAPT, IIT (BHU) Varanasi

Prof. R. K. Singh, IDAPT, IIT (BHU) Varanasi

Prof. N. S. Rajput, IDAPT, IIT (BHU) Varanasi

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 a 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 IDAPT

The Interdisciplinary Data Analytics and Predictive Technologies (IDAPT) has been regarded as one of the most prominent fields whose progress will add significant impact on various socio-economic issues. At IIT (BHU) five verticals 1)Telecommunications, 2) Power, 3)Road Transport and Highways, 4) Defence Research and Development, and 5) Health and Family Welfare 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”.

COORDINATORS

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Short Term Course on

**Advanced Techniques for
Traffic Data Analysis,
Visualization and State
Estimation for Indian Cities**

A TECHNOLOGY INNOVATION HUB

ON

**INTERDISCIPLINARY DATA ANALYTICS
AND PREDICTIVE TECHNOLOGY**

(IDAPT)

Under

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



20th –24th December 2021

Coordinators:

**Dr. Ankit Gupta
Dr. Anilkumar Bachu
Dr. Agnivesh Pani**

EMINENT SPEAKERS

Prof. P. Vedagiri, IIT Bombay
Prof. Akhilesh K. Maurya, IIT Guwahati
Prof. Nagendra Velaga, IIT Bombay
Dr. Pranamesh Chakraborty, IIT Kanpur
Dr. Shriniwas Arkatkar, SVNIT Surat
Dr. Abhisek Mudgal, IIT (BHU) Varanasi
Dr. Pushpa Choudhary, IIT Roorkee
Dr. Sanhita Das, IIT Roorkee
Dr. Nipjyoti Bharadwaj, IIT Guwahati
Mr. Rahul Pandey, Assoc. Director, Deloitte
Mr. Ravishankar Rajaraman, Director, JPRI
Dr. Rajesh Krishnan, CEO, ITS PE
Mr. Manraj Singh Bains, Director, UNITRANS

COURSE CONTENTS (Tentative):

- Traffic State Estimation
- Microscopic Traffic Data Collection using Onboard Sensors
- Microscopic Traffic Modelling
- Traffic Data visualization techniques - Tableau and Leaflet
- Traffic Crash Analysis using Naturalistic Driving Data
- Travel time prediction – Machine Learning and Deep Learning
- Intelligent Transportation System (ITS) applications and their Implementation
- Simulator-based Driver Behaviour Analysis
- Industry Perspectives on Traffic Management
- Industry Perspectives on Traffic Safety Technologies

REGISTRATION DETAILS

Registration link :

<https://tinyurl.com/idaptstc>

Last Date of Registration: **16th December, 2021**

Registration Fees:

For faculties, scientists and post doctoral fellow: Rs. 1000/- (non-refundable)

Industry: 4000/- (non-refundable)

For UG and PG students : Rs. 100 (refundable)

Payment may be made by one of the following methods:

(i) Demand draft In favor of I-DAPT-HUBFOUNDATION

Payable at SBI, IIT(BHU) Varanasi.

(ii) For online payment

Branch: SBI, IIT(BHU) Varanasi

IFSC Code: SBIN0011445

Name: I-DAPT-HUB-FOUNDATION

Account No: 39818711510

Course Mode: **Online**

In case of any difficulty you can contact us at ankit.civ@iitbhu.ac.in (or) anilkumar@iitp.ac.in (or) agnivesh.civ@iitbhu.ac.in

WHO CAN PARTICIPATE

This workshop is specifically designed for UG/ PG/PhD students, researchers, faculties and technical staffs from the branches of engineering/ Science who are working or interested in the areas of traffic engineering, Intelligent Transportation Systems.

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.
