

## WHO CAN PARTICIPATE

This short-term course is specifically designed for undergraduate, postgraduate PhD students, researchers, faculty members, and technical staff from engineering and science branches who are interested in the fields of organic semiconductors, electronics, materials science, sensing, and predictive analytics.

### 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 Shivam Verma and Dr Ankit Arora

Assistant Professor

Department of Electronics Engineering

Indian Institute of Technology (BHU), Varanasi

Email: [shivam.ece@iitbhu.ac.in](mailto:shivam.ece@iitbhu.ac.in), [ankit.ece@iitbhu.ac.in](mailto:ankit.ece@iitbhu.ac.in)

## 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 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) Defense 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".

## ABOUT THE STC

This STC focuses on advancements in organic flexible, sustainable, and data-powered electronic solutions such as a) Flexible Wearable Electronics: Real-time physiological monitoring with predictive analytics for digital healthcare, b) Energy & Environment: Organic photovoltaic systems optimized using predictive models for energy harvesting and IoT c) Health & Family Welfare: Organic bioelectronics enabling data-driven diagnostics and personalized medicine d) Agri-Tech: Low-cost organic sensors for soil, humidity, and crop health data analytics in precision agriculture.

## Short Term Course on

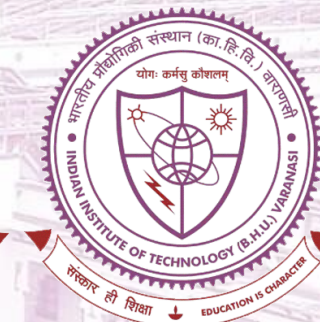
# Organic Electronics: Materials to Devices for Sustainability, Healthcare, Agriculture, and Industries

## A TECHNOLOGY INNOVATION HUB ON

## INTERDISCIPLINARY DATA ANALYTICS AND PREDICTIVE TECHNOLOGY (IDAPT)

Under

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



February 26 to 02 March, 2026

Coordinators

Dr Shivam Verma

Dr. Ankit Arora

## ABOUT INSTITUTE



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

the first residential university of modern India, the Banaras Hindu University. Three of the erstwhile engineering colleges of BHU, namely BEN- CO, MINMET, and TECHNO, were merged to form the Institute of Technology (IT-BHU) in 1968, providing an integrated educational base. The IT-BHU has been admitting students through the JEE conducted by the IITs since 1972 and has consistently ranked among the top few engineering institutions in the country. IT-BHU became IIT (BHU) on June 29, 2012, by an Act of Parliament. The Institute has consistently maintained high academic standards since its inception. It has produced luminous engineers and administrators who have served the nation with great distinction.

## ABOUT ECE

Department of Electronics Engineering (ECE) at Indian Institute of Technology (IIT BHU), where experienced faculty and highly motivated students are supported by a dedicated staff, offers a unique engineering education. The Department offers Bachelor's, Master's, and Doctoral programs in Electronics Engineering, with major thrust areas including Microelectronics, Microwave Engineering, Digital Techniques, and Instrumentation and Communication Systems. In addition, continuing education programs in specialised areas are offered on a regular basis for industry professionals and academic staff.

## EMINENT SPEAKERS

(Tentative list)

- Prof. A. N. Tiwari (ETH Zürich)
- Prof. S. K. Gupta (IIT Kanpur)
- Dr R. Srivastava (CSIR–NPL)
- Prof. Shree Prakash Tiwari (IIT Jodhpur)
- Prof. Satyabrata Jit (IIT BHU Varanasi)
- Industry Experts: Tata Electronics / Samsung Display India

## COURSE CONTENTS (Tentative)

A detailed session-wise lecture and hands-on schedule will be prepared and provided by the Course Coordinator. It will be designed with the following components:

- Introduction to Flexible and Organic Electronics – Materials, device physics, and fabrication techniques.
- Fabrication Demo of Organic Thin-Film Devices – Spin/dip coating, printing, and thermal evaporation.
- Data Acquisition from Sensors and Solar Devices – Interfacing with microcontrollers and DAQ platforms
- Predictive Modelling and Analytics Tutorials – Python-based tools (Pandas, Scikit-learn) for data analytics.
- Case Studies – Smart health monitoring, environmental and agricultural sensor networks.
- Guest Expert Lectures – Industry and academic leaders on emerging research trends and opportunities

## REGISTRATION DETAILS

Registration Link:

<https://forms.gle/FkHBidwEK1sZr2hP7>

Last Date of Registration: 20<sup>TH</sup> FEB. 2026

## Registration Fees

For Offline Participants: (Including 18 % of GST amount)

- Faculty, Scientists, Post-Doctoral Fellows: ₹4,000 (non-refundable)
- Industry Participants: ₹7,000 (non-refundable)
- UG, PG, PhD Students: ₹1,500 (non-refundable)
- Technical Staff: ₹3,000 (non-refundable)
- International Participants: NA

For Online Participants: (Including 18 % of GST amount)

- Faculty, Scientists, Post-Doctoral Fellows: ₹2,000 (non-refundable)
- Industry Participants: ₹3,500 (non-refundable)
- UG, PG, PhD Students: ₹750 (non-refundable)
- Technical Staff: ₹1,500 (non-refundable)
- International Participants: USD 100

Payment may be made by one of the following methods:

1. Demand draft in favour of I-DAPT-HUB FOUNDATION

Payable at SBI, IIT(BHU) Varanasi.

2. For online payment

Branch: SBI, IT(BHU), Varanasi

IFSC: SBIN0011445

Name: I-DAPT-HUB-FOUNDATION

Account No: 40298890505

Course Mode:

Both online and offline. Offline participants can be limited/restricted based on availability.

In case of any difficulty, you can contact us at

shivam.ece@iitbhu.ac.in,  
ankit.ece@iitbhu.ac.in