

WHO CAN PARTICIPATE

For UG, PG, and PhD students, staff (technical, administrative, and others), faculties, scientists, post-doctoral fellows, industry participants, and international participants.

□ **Free Accommodation and Meals:**

All offline participants will be provided **complimentary accommodation and meals** for the duration of the STC.

□ **Seats Available: 26 Offline | 60 Online**

□ **Admission:** Seats will be allotted on a **First-Come, First-Served basis**.

REGISTRATION

Registration Link:

<https://forms.gle/kcizDn6wmmcnkaP6>

Course Details:

- **Hybrid (Both online and offline)**
- **10 Sessions (20 Hours) Planned Over 5 Days**
- **Duration: 2 Hours per Session**

CONTACT

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ABOUT NM-ICPS

The National Mission on Cyber-Physical Systems (NM-ICPS) is identified as one such emerging field with a significant impact on health care and 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 resources from technicians to researchers and entrepreneurs. It will have modernization and digitalization of socio-technical systems and services.

ABOUT I-DAPT

The Interdisciplinary Data Analytics and Predictive Technologies (I-DAPT) is one of the most prominent fields with significant impact on socio-economic issues. At HT (BHU), the verticals include Telecommunications, Power, Road Transport and Highways, Defense Research and Development, Health and Family Welfare, and other areas such as Energy, Environment, and Agri-Tech under EDAPT. The endeavor aims to create skilled engineers, researchers, technicians, and entrepreneurs and, along with human resources at all levels, contributes to realizing the vision of "Digital India", "Innovate in India", and "Make in India".

Biomedical Signal Analytics & AI for Healthcare in I-DAPT

The proposed STC, Biomedical Signal Intelligence for Smart Healthcare Systems: Integrating AI & ML, aligns with DAPT by advancing Health & Family Welfare through AI-based biomedical signal analysis, supporting Energy and Environment via low-power wearable systems, enabling defense R&D through remote monitoring, and enhancing telecommunications with real-time and telemedicine solutions.

Short-term Course

on

Biomedical Signal Intelligence for Smart Healthcare Systems: Integrating AI & ML

A TECHNOLOGY INNOVATION HUB ON

INTERDISCIPLINARY DATA ANALYTICS AND PREDICTIVE TECHNOLOGY (IDAPT)

Under

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



September 12-16, 2026

Coordinators:

Dr. I. A. Ansari, DoEEE, ABV-IIITM Gwalior
Dr. Vinal Patel, DoEEE, ABV-IIITM Gwalior

ABOUT ABV-IIITM GWALIOR



Atal Bihari Vajpayee Indian Institute of Information Technology & Management Gwalior, established in 1997 by the Ministry of Human Resource Development, Government of India, is India's premier institute offering quality education in Information Technology and Management. Located in Gwalior, Madhya Pradesh, it fosters a culture of inquiry and research in a competitive academic environment with strong industry connections. Certified as an NAAC 'A' Institute and declared an Institute of National Importance, ABV-IIITM focuses on excellence in education and collaboration with the corporate world.

ABOUT EEE

The Department of Electrical and Electronics Engineering, established in 2022, is focused on advancing the institute's mission through teaching, research, and development in areas such as VLSI, RF and Microwave Communication, Signal Processing, and Control and Automation. It offers an M. Tech. in IC Design and Technology and Ph.D. programs in diverse domains, including VLSI, AI, signal and image processing, wireless communication, and biomedical systems. The department also promotes academic and industry collaboration through workshops, conferences, and faculty development programs, while actively undertaking government-funded research projects supported by agencies like SERB, DST, DBT, MeitY, DSIR, and TEQIP.

SPEAKERS

The programme will feature distinguished speakers from IITs, NITs, IIITs, medical practitioners and Industry professionals.

COURSE CONTENTS (Tentative)

The Short-Term Course (STC) on Biomedical Signal Intelligence for Smart Healthcare Systems: Integrating AI & ML is designed to provide participants with a comprehensive understanding of biomedical signal processing and the application of AI/ML techniques in modern healthcare. The course covers key aspects of biomedical signals, signal acquisition, sensors, preprocessing, feature extraction, and intelligent data analysis. Participants will also gain hands-on exposure to Python-based tools for signal visualization, processing, and AI/ML model development. The course further introduces smart and connected healthcare systems, IoT-enabled healthcare, telemedicine, wearable technologies, and emerging digital health solutions. Emphasis will be placed on practical learning, real-world applications, and the use of intelligent computational approaches to support efficient, reliable, and accessible healthcare systems.

REGISTRATION DETAILS

Registration Link:

<https://forms.gle/kcizDn6wmmcnkaP6>

Last Date of Registration:

August 31, 2026

Registration Fees Including 18% GST)

Participation	Online (including GST)	Offline (including GST)
For UG, PG, and PhD students	Rs. 750/-	Rs. 1500/-
Staff (Technical, Administrative, and Others)	Rs. 1500/-	Rs. 3000/-
For faculty, scientists, and post- doctoral fellows	Rs. 2000/-	Rs. 4000/-
Industry Participants	Rs. 3500/-	Rs. 7000/-
International Participants	100 USD	
** The registration fee & GST are non-refundable to participants.		

Payment Mode

Beneficiary Name: I-DAPT-HUB FOUNDATION

Account Number: 40298890505

Nature of Account: Current Account

IFSC Code: SBIN0011445

Bank Branch Name: SBI Bank, BHU, Varanasi



UPI ID: idapthubfound@sbi

In case of any query, you can contact us at

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