WHO CAN PARTICIPATE

PG/PhD students, early-career researchers and faculty members from Computer Science, Data Science, Artificial Intelligence, Environmental Science, Water Resources, Remote Sensing and GIS, and professionals interested in AI-enabled environmental monitoring. International participants are welcome (online mode only).

REGISTRATION

Name:

Designation:

Institute:

Address:

Email ID:

Contact No:

Undertaking:
I shall abide by rules and regulations and shall attend the course.

Signature of Participant

CONTACT

Dr. Priya Stella Mary I, Assistant Professor, Department of Computer Science
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Dr. Kokilavani T, Associate Professor, Department of Computer Science
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Dr. Balakrishnan C, Associate Head, Department of Computer Science
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Dr. Vinay M, Head of the Department, Department of Computer Science
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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 resources 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 I-DAPT. The endeavour shall catalyse the creation of skilled young engineers, researchers, technicians and entrepreneurs, besides becoming a key contributor to realizing the vision of "Digital India", "Innovate in India" and "Make in India".

Environment & Water Monitoring in I-DAPT

This STC aligns with the Data Analytics and Predictive Technologies theme, addressing a) Agentic AI and multi-agent systems, b) data analytics and predictive technologies, c) satellite intelligence and geospatial analytics, d) remote sensing and image processing, e) AI-enabled environmental and water monitoring, and f) explainable, reliable and responsible AI.

Short Term Course on

Agentic AI for Intelligent Water Monitoring: Data Analytics, Predictive Technologies, and Satellite Intelligence

BY

CHRIST

DEPARTMENT OF COMPUTER SCIENCE
CHRIST (DEEMED TO BE UNIVERSITY)
BANGALORE YESHWANTHPUR CAMPUS
IN ASSOCIATION WITH

INTERDISCIPLINARY DATA ANALYTICS AND PREDICTIVE TECHNOLOGIES (I-DAPT) IIT (BHU), Varanasi

Under
NATIONAL MISSION ON INTERDISCIPLINARY CYBER PHYSICAL SYSTEMS (NM-ICPS)

07 - 11 DECEMBER 2026, 10:30 AM TO 3:30 PM

COURSE COORDINATORS
Dr. PRIYA STELLA MARY I
Dr. KOKILAVANI T
Dr. BALAKRISHNAN C
Dr. VINAY M

ABOUT INSTITUTE



CHRIST (Deemed to be University) Yeshwanthpur Campus is a contemporary, research-driven campus in Bengaluru that emphasizes interdisciplinary education, innovation, and industry relevance. It offers a dynamic academic ecosystem with a strong focus on Computer Science, Artificial Intelligence, Data Science, and allied emerging technologies, supported by state-of-the-art laboratories, smart classrooms, advanced computing infrastructure, and comprehensive library resources. The campus nurtures a robust research culture through funded projects, collaborations with premier institutions, and regular organization of STCs, workshops, and conferences.

ABOUT DEPARTMENT

The Department of Computer Science at CHRIST (Deemed to be University) – Yeshwanthpur Campus offers UG, PG, and PhD programs with a strong focus on AI, Machine Learning, Data Science, Cybersecurity, Cloud Computing, and IoT. The department emphasizes hands-on, outcome-based education through modern laboratories, industry-aligned curriculum, and project-based learning, and actively promotes research, innovation, and interdisciplinary collaboration.

EMINENT SPEAKERS

(Tentative)

- **Prof. M. Sekhar (Professor, Dept. of Civil Engineering), IISc, Bengaluru**
- **Dr. T. V. Ramachandra (Environmental & Geospatial Research Expert), IISc, Bengaluru**
- **Dr. H. N. Chanakya (Former Chief Research Scientist, CST), IISc, Bengaluru**
- **Dr. K. Ganesha Raj (Former General Manager, RRSC–South), NRSC/ISRO, Bengaluru**
- **Dr. Uttam Kumar (Associate Professor, Dept. of DS & AI), IIIT Bangalore**
- **Dr. S. Saravanan (Associate Professor, Dept. of Civil Engg.), NIT Tiruchirappalli**
- **Dr. K. Ch. V. Naga Kumar (Senior Scientist & Head i/c), CWRDM, Kozhikode**
- **Mr. Giridharan Sengaiah (Co-founder & COO), SmartTerra Urban Water Management, Bengaluru**
- **Mr. Belal Khan (Google Developer Expert – Android), Simplified Coding, Bengaluru**
- **Mr. Ajoe Joseph (Google Developer Expert), People10 Technologies, Bengaluru**
- **Ms. Sumaiya Sultan (Researcher), BITS Pilani, Dubai Campus**

COURSE CONTENTS (Tentative)

With a focus on Agentic AI, data analytics, predictive technologies and satellite intelligence for water monitoring, this Short-Term Course covers:

- **Water-monitoring datasets, preprocessing, EDA and time-series forecasting**
- **Generative & Agentic AI, multi-agent systems; hands-on agents with ADK/MCP**
- **Earth observation, Sentinel multispectral imagery and image preprocessing**
- **Spectral features for water-quality prediction; research visit to ICWaR, IISc**
- **Reliable, explainable & responsible AI with a team mini-project**

REGISTRATION DETAILS

Registration Link:
https://www.idapthub.org/applications/stc

Last Date of Registration: 4 December 2026

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**. Fee concessions for women and SC/ST participants.

Payment Mode:

Branch: SBI, IIT(BHU), Varanasi
IFSC: SBIN0011445
Name: I-DAPT-HUB-FOUNDATION
Account No: 40298890505

Course Mode:

Both online and offline (International: online only)

Venue: CHRIST, Yeshwanthpur Campus

In case of any difficulty, you can contact us at

priya.stella@christuniversity.in
kokilavani.t@christuniversity.in
balakrishnan.c@christuniversity.in
vinay.m@christuniversity.in