



AWaDH
IIT Ropar-TIF

Short Term Course

on

Internet of Things

With Hands on Experience

at

AWaDH Cyber Physical Systems (CPS) Lab

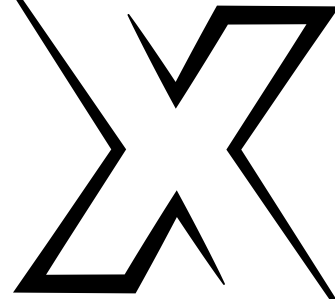
at

National Institute of Technology Delhi

June 03 – 08, 2024

Last Date to Register: May 28, 2024
(Limited seats only)





About NIT Delhi:

Established in 2010 by an act of parliament, National Institute of Technology Delhi (NITD), with **NIRF rank 51**, is one of the thirty-one NITs and holds the status of an Institute of National Importance. Operating under the Ministry of Education, Government of India, NIT Delhi is an autonomous Institute. It aims to provide education and research facilities in various Engineering, Science, and Technology disciplines. Currently offering UG, PG (M.Tech. & Ph.D.), and conducting research, consultancy, and developmental activities, NIT Delhi caters to over 1200 students in leading fields of engineering & technology.

About AWaDH:

iHub-AWaDH, hosted at IIT Ropar, under India's National Mission on Cyber Physical Systems, promotes deep tech innovation in Agriculture and Water using CPS, IoT, AI, etc. It accelerates startup growth, advances research, and builds ecosystems to tackle sector challenges. Through partnerships, incubation, and collaboration, iHub-AWaDH aims for positive, sustainable transformations.



The event is launched by distinguished panel of dignitaries:

Dr. Akhilesh Gupta, Senior Advisor, DST,

Rajesh Kumar Pathak, DG, Bharat 6G Alliance

Dr. Anita Gupta, Head, CEST, DST

Dr. Ekta Kapoor, Mission Director, NMICPS, GoI

Mr. Jeet V., CEO, Meity Startup Hub

Dr. Pushpendra P. Singh, Project Director, AWaDH

at

Bharat Mandapam, Pragati Maidan, New Delhi.



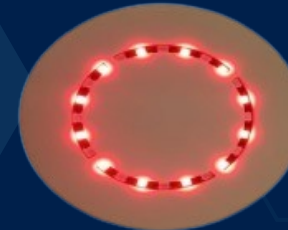
100+ Experiments available at CPS Lab, NIT Delhi



BLE GATEWAY



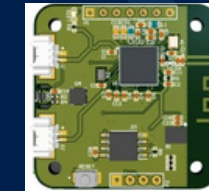
Low Power SNAP



Air Sense



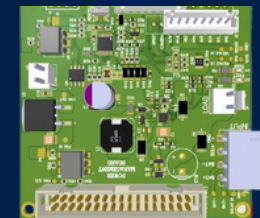
Activity Monitor Kit



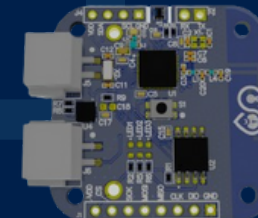
Acoustic Module Node



Weather Monitoring Sensor System



Solar Charging Module



BLE NODE



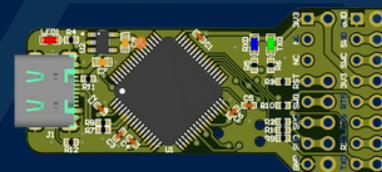
4G/5G WITH BLE



LUX Sensor



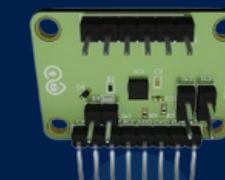
BLE Grove Shield



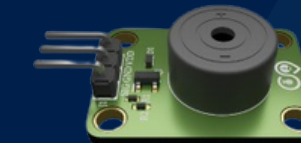
FLASH TOOL



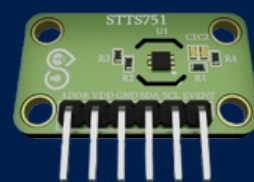
SOLAR BMS



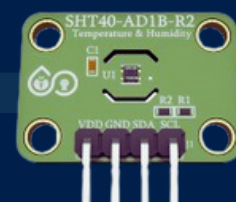
LIS3DH Sensor Board



Buzzer Board



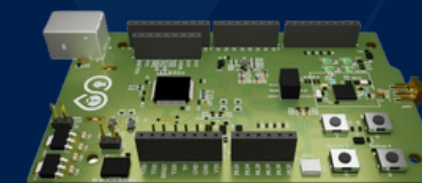
STTS751 Sensor Board



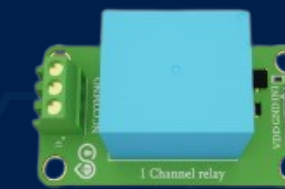
SHT40 Sensor Board



W25Q16 Memory



BLE Development Kit



Relay Board

Day-wise Module

Day 1 (Domain Introduction)

- Inauguration Ceremony
- Introduction to IoT
- IoT Frameworks and Case Studies
- Hand On: Component Identifying

Day 2 (Electronics: Dive In)

- Introductory Lecture
- Introduction to Sensors and Interfacing.
- Component assembly using breadboard.

Day 3 (3D Printing)

- Solidwork Introduction and Design
- Hands on with design files, Slicing and 3D Printing
- Panel Discussion

Day 4 (Data Visualization and Analysis)

- Data Handling and Visualization
- Data Analytics for IoT
- Hands on: Data Analysis and Visualization

Day 5 (Project Development)

- Idea-Brainstorming
- IoT-based Project Development

Day 6 (Project Discussion)

- Project Discussion
- Valedictory Ceremony and Certificate Distribution

The hands-on nature of the sessions emphasizes a practical approach to learn and skill development in the IoT domain. Join us for an immersive learning experience and gain the knowledge and skills needed to excel in the exciting field of IoT.

- Immersive learning experience
- Gain knowledge and skills
- Excel in IoT

This program will be carried out by eminent Professors from IITs/NITs and Industry experts.



Eminent Speakers



Kavya Dashora

Associate Professor,
IIT Delhi



Dr. Suman Kumar

Assistant Professor,
IIT Ropar



Dr. Pushendra P. Singh

Dean R&D, IIT Ropar; Project Director, iHub –
AWaDH



Saif K. Mohammed

Professor, Electrical Engineering Dept
IIT Delhi



Dr. Anurag Singh

Associate Professor
NIT Delhi



Dr. Pankaj Mukhija

Associate Professor
NIT Delhi



Dr. Mahesh K. Singh

Assistant Professor
NIT Delhi



Shubham Singh

Head, Product & Innovations
Ubreathe



Taranjeet Singh Bhamra

Founder & CEO
AgNeXT



Sanjay Maurya

Co-Founder
Ubreathe

- **Join our transformative six-days program tailored to equip you with a profound understanding of the Internet of Things (IoT) and its real-world applications.**
- **Delve into the heart of IoT technology and unlock its vast potential to revolutionize industries and drive innovation.**
- **Our expertly curated sessions cover a diverse spectrum of topics essential for mastering IoT, ensuring you gain the knowledge and skills needed to thrive in this dynamic field.**
- **Don't miss this opportunity to immerse yourself in hands-on learning, gain invaluable insights, and pave the way for a successful career in IoT.**
- **Register now and embark on your journey towards IoT mastery.**

ELIGIBILITY

Engineers, Researchers from Academia & Industry, and Tech-Enthusiasts.

Entry to the course is on first come first serve basis for Limited Seats

Coordinators:

Anurag Singh
Pankaj Mukhija
Mahesh K Singh
Sahil

Contact us

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Pradeep: 89208-25922
Email: cpslab@nitdelhi.ac.in

Registration fee

RS. 5000/- ONLY
(Only for Logistics and Food)



**Scan for Payment and
Registration**