

# Internet of Things & Applications

20 Feb-04 Mar 2023.

Under Asi@Connect Project



## Empowering Girls to Reduce the Gender Gap in IT and ITES Sectors in South Asia Region: Training and E-Content Development Programme



Co-funded by the European Union

### Course Features

SDP on Internet of Things & Applications aims at enhancing the skills of undergraduate and postgraduate students and help them learn about the fundamentals of IoT, design methodology, access technologies, IoT hardwares, data analytics and various IoT application domains. It will also introduce them to development of IoT applications through dedicated hands-on sessions.

### Course Contents

- Introduction to Internet of Things & Application
- Basics of wireless sensor networks
- IoT Hardware: embedded devices, sensors, actuators and other components
- Physical & Data link layer for IoT
- Networking and Transport Layers for IoT
- Application Layer, Cloud and data storage for IoT
- Data Analysis for IoT
- Securing IoT Networks
- Machine learning for IoT

#### Hands-on Sessions on:

- Introduction to Nodemcu board and Live sensor data upload to Thingspeak cloud
- Smart Home using Google firebase
- Predictive Maintenance

### About IIITDM

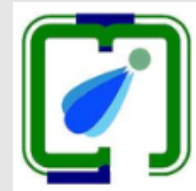
PDPM IIITDM Jabalpur was established by the Ministry of Education (Formerly MHRD), Government of India in 2005 with a focus on education and research in IT enabled Design and Manufacturing. Since its inception, IIITDM Jabalpur has been playing a vital role in producing quality human resources to contribute to India's mission of inclusive and sustainable growth. The Institute offers undergraduate, postgraduate and Ph.D. programs in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Smart Manufacturing, and Design, along with Ph.D. in Mathematics, Physics and English. Under the IIIT act, the Institute has been declared as an Institute of National Importance.

### About Asi@Connect

Asi@Connect provides dedicated high-capacity internet connectivity for research and education communities across Asia-Pacific; operating at speeds of up to 10Gbps. It currently interconnects universities and research centers in 21 countries /economics across the region. It Also connects 50 million European researches and academics served by the GEANT network and supports collaborative programmes in areas such as Earth observation, disaster warning , climate research , food security, delivery of e-health and e-learning.

The current programme is an activity under Asi@Connect to empower girls in IT/ITES sector and is sponsored by Trans-Eurasia Information Network(TEIN) & European Union.

### Organized By:



**Pandit Dwarka Prasad Mishra**

Indian Institute of Information Technology, Design and Manufacturing, Jabalpur  
(An Institute of National Importance established by an Act of Parliament)

### In association with:

1. Bangladesh University of Engineering and Technology, Bangladesh	6. Indore Institute of Science & Technology, Indore, M.P., India
2. Kathmandu University, Nepal	7. Devi Ahilya Vishwavidyalaya, Indore, M.P. , India
3. Anna University, Chennai, India	8. Maharishi University of Information Technology, Lucknow, U.P., India
4. Sikkim Manipal Institute of Technology, Majitar, Rangpo, Sikkim, India	9. Jaypee Institute of Information Technology, Sector-128, Noida, U.P., India
5. GLA University, Mathura, India	

### Speaker:

- Prof. Vijay Kumar Gupta, IIITDM J
- Prof. Alim A. Islam, BUET, Bangladesh
- Dr. Hari Prabhat Gupta, IIT BHU
- Dr. Mayank Agarwal, IIT Patna
- Dr. Amrit Pal, VIT Chennai
- Mr. Jitesh Kumar, Industry Personal
- Dr. Munesh Singh, IIITDM J
- Mr. Mayur Mungole, IIITDM J

### How to apply

The course is free of cost. Preference will be given to female students. Interested participants can fill the registration form available on the webpage or register using the following link:

<https://forms.gle/hyufP7FK72obKB386>

### Contact Us :

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**Note - It is mandatory, for all participants attend the programme on physical mode at your prescribed center.**