

One-week Faculty Development Program sponsored by AICTE Training and Learning (ATAL) Academy

on

“Wireless Sensor Networks and IoT”

January 10-14, 2022

Coordinators – Prof. S. Indu, ECE Department, DTU Delhi

Co-Coordinator- Prof. Gurjit Kaur, ECE Department, DTU Delhi

<p>ORGANIZING COMMITTEE</p> <p>Patron Prof. Jai Prakash Saini Vice Chancellor, DTU Delhi</p> <p>Convener Prof. N S Raghava HOD, ECE Dept., DTU Delhi</p> <p>Coordinator Prof. S. Indu ECE Dept., DTU Delhi</p> <p>Co-Coordinator Prof. Gurjit Kaur ECE Dept., DTU Delhi</p>	<p>ABOUT THE DEPARTMENT</p> <p>The Department of Electronics and Communication Engineering has experienced considerable growth since its inception in 1976. The vision of the department is to focus on the incubation of innovations in the areas of electronic design/ fabrication, and communication technologies, which are needed to address the growing challenges of tomorrow. The overall aim is to harbor a sustainable, and continuously evolving scientific, technological and educational environment which is both internationally-adapted and industry relevant.</p>	<p>One-week Faculty Development Program</p> <p>on</p> <p>“Wireless Sensor Networks and IoT”</p> <p>January 10-14, 2022</p> <div></div>
<p>ABOUT THE INSTITUTE</p> <p>Delhi Technological University located in Delhi is a premier institution of Engineering and Technology in India. The university plays a key role in the national and global knowledge network, empowering India with the wings of knowledge and innovation. The university aims to imbibe a culture of methodical research and to develop a scientific temper for the integration of science, engineering and management. DTU has been ranked amongst the top institutions in multiple reputed national and international surveys.</p>	<p>OBJECTIVE OF THE FDP</p> <p>The aim of this FDP is to provide a deep insight about basic concepts, technology and advancement about the latest development in field Wireless Sensor Networks and Internet of Things (IoT). It will further give impetus to the participants towards bringing out newer and efficient techniques. Moreover, this faculty development program explores this area, the future scope of the technology, the issues, the challenges, and research opportunities. The whole course is handled by academicians and industry experts. This FDP is organized by Delhi Technological University, Delhi and sponsored by AICTE Training and Learning (ATAL) Academy.</p>	<div></div> <p>Organized by</p> <p>Department of Electronics and Communication Engineering</p> <p>Delhi Technological University</p> <p>Bawana Road, Shahbad, Daulatpur</p> <p>Delhi-110042</p> <p>(Sponsored by AICTE and ATAL Academy)</p>

TOPICS TO BE COVERED

- ❖ Art of Living/ YOGA
- ❖ SG Networks and IoT
- ❖ Big Data Technologies
- ❖ Wireless sensor Networks and security
- ❖ Mobile Networks
- ❖ Artificial Intelligence based IoT System
- ❖ IoT based Smart Cities
- ❖ IoT Security using Blockchain
- ❖ Optical Technologies for IoT System
- ❖ Heterogeneous Devices in IoT
- ❖ Cognitive Networks
- ❖ Machine Learning in Wireless Sensor Networks
- ❖ Role of Cloud Computing in IoT

COMMITTEE MEMBERS

- ❖ Dr. Rohit Kumar
- ❖ Dr. Sachin Taran
- ❖ Dr. Anukul Pandey
- ❖ Dr. Manjeet Kumar
- ❖ Ms. Lavi Tanwar
- ❖ Ms. Akanksha Srivastava
- ❖ Ms. Garima Singh

RESOURCE PERSONS

- ❖ Prof. Muralidhar Kulkarni, NIT Surathkal
- ❖ Mr. Prabhjot Singh, Principal Software Engineer Salesforce, USA
- ❖ Dr. Karan Verma, NIT Delhi
- ❖ Dr. Sushama Yladkar, Heartfulness Institute, Roorkee
- ❖ Dr. S. Indu, Delhi Technological University
- ❖ Dr. Nidhi Goel, IGDTUW Delhi
- ❖ Dr. Gurjit Kaur, Delhi Technological University
- ❖ Prof. Deepak Kedia, Guru Jambheshwar University of Science and Technology, Hissar
- ❖ Dr. Brijesh Lall, IIT Delhi
- ❖ Dr. Rohit Kumar, Delhi Technological University
- ❖ Dr. Sunit Aggarwal, UIET, Panjab University, Chandigarh
- ❖ Prof. O P Verma, Delhi Technological University
- ❖ Dr. R. Ravi, Francis Xavier Engineering College, Tamil Nadu
- ❖ Dr. Ayetha Choudhary Jarraharal Nehru University, New Delhi
- ❖ Dr. Shilpa Jindal, Chandigarh College of Engineering and Technology

REGISTRATION

This FDP is open to the faculty members of AICTE/UGC approved Engineering Institutes/Universities / R&D Labs /Industry person/ PhD scholars/ post graduate and undergraduate students interested to know about the current status, scope and challenges about Wireless Sensor Networks, Internet of Things (IoT) and their applications.

The interested person for registration please follow these steps.

1. Step 1: Register in Atal Academy Portal
Link: <https://atalacademy.aicte-india.org/>

2. Step 2: After registration on the Atal Academy Portal, the candidates need to register for the workshop/FDP by selecting Delhi Region
Title: Wireless Sensor Networks and IoT
Level: Elementary
Mode: Online
Application No: 1614585732

No Registration fee is required for attending this FDP.

Important Dates

Last date of registration: Jan 8, 2022
Confirmation to the participants: Jan 9, 2022

Address for Correspondence

Contacts:
Mr. John Tomat
Mr. Shashank
ECE Dept., DTU Delhi
Email: Edgordha2022@gmail.com
Phone: 9971027856, 9716574295

Website: <http://fu.ac.in/>

Note: E-Certificates will be provided to those participants whose attendance will be minimum 75% after successful completion of FDP.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "IoT Architecture" which illustrates a multi-layered system. The layers from top to bottom are: Application (with sub-categories: Energy, Healthcare, Transportation, Retail, Surveillance), Management Service, Gateway and Network, Sensors Connectivity and Network, and Sensor Network/Sensors/Actuators/Tags (including RFID and Barcode). The slide also shows various network protocols like WAN (GSM, UMTS, LTE, LTE-A), Wi-Fi, Ethernet, and Gateway Control. The Zoom interface includes a video grid on the right with participants such as Muralidhar Kulkarni, Satish Parkash J., and Chiranjeev B. The bottom toolbar shows standard Zoom controls like chat, mute, and video.

Yoga Psychology and Heartfulness Meditation - Introduction

Day 1

File Home Insert Design Layout References Slide Show Window View Help

Wireless Sensor Networks & Internet of Things

DTU

11-01-22

YOGIC PSYCHOLOGY & HEARTFULNESS MEDITATION

Dr. Sushama Viladkar

Heartfulness Trainer

0987800000

Towards Infinity

Yoga chitta vritti nirodha is Patanjali's definition of yoga. It means that yoga is the removing of the fluctuations of the mind. The Indraksha describes the purpose of the yoga practice, saying "Yoga chitta vritti nirodha", which means "Yoga is stilling the fluctuations of the mind", or literally translated as: *Still the mind*.

Slide 1 of 11 "Still the mind" Yoga India

Sushama Viladkar

Arvind Kumar

Subha Kanta Swain

Akanksha Shrivastava

Piyush Bedia

ER.MANJU Sharma

Vijay Jadhav

aravind kumar

Er.Arjit

SHISHIR SINGH

Divya Mishra

Dr. Manikarjun B.C

Indu a

Aparna

Pravin Jaronde

jitendra arya

Deepak Gupta

Akash Bhagat

SUCHA GUPTA

S. MANI KANDAN CSE

Adithyashree Inavolu

Events DTU

DEEPA HEMRAJANI D

Dr. Gurjit Kaur

Ashok Kumar Kujla

Gajendra Singh

49 others

You

4:27 PM | uaf-tgjd-qcu

Single Camera Application

• Fall detection

- When elderly people live alone, fall accident can lead to various health complications,
- Important activity to detect – differentiate with other daily activities such as lying down, sitting
- **Green:** usual activity
- **Red:** Fall



10-06-2022



Dr. Apurva Choudhary, MSc, PhD, FRCR



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Apurva Choudhary

