

## INTRODUCTION AND OBJECTIVES

AICTE Training And Learning (ATAL) ONLINE FACULTY DEVELOPMENT PROGRAMME (OFDP), on MOBILE COMPUTING AND WIRELESS NETWORKS (MCWN), intended for Faculty of Technical Institutions, sponsored by MHRD/AICTE, New Delhi, is being organized by Meerut Institute of Engineering and Technology (MIET), Meerut, Uttar Pradesh, to be held during 07-11 September, 2020. This program aims at equipping Faculty of Technical Institutions with requisite knowledge and exposure to the concepts, principles and applications of Wireless Networks and Mobile Computing.

The program would give a rich opportunity to the participants to get introduced and learn concepts in the following: Wireless Communication and Networks, Mobile Computing, Cellular Technologies (GSM, GPRS, etc.), Wireless PANs, Wireless LANs and Mobile Adhoc Networks, Mobile IP, Wireless TCP, J2ME Technologies, WAP and WML, Network Simulator, Smart Antenna Technologies, Security issues in wireless networks, Operating systems for mobile devices, mobile agents, mobile data management, Simulation and Modeling of MANET protocols. The course contents of the SDP are given below. It is aimed to cover as many of the course contents as possible depending on the availability of the Resource Persons.

## COURSE CONTENTS

- ❖ Overview of wireless communications, networks and mobile computing
- ❖ GSM, GPRS and other cellular technologies
- ❖ Wireless Personal Area Networks (WPANs)
- ❖ Wireless Local Area Networks (WLANs)
- ❖ Wireless Ad hoc Networks
- ❖ MAC and routing protocols for MANETs
- ❖ Mobile IP
- ❖ Wireless TCP
- ❖ Simulation and Modeling of Wireless Networks
- ❖ WAP and WML
- ❖ J2ME technologies
- ❖ Smart antenna technologies
- ❖ OS for mobile devices
- ❖ Security issues in wireless networks
- ❖ Mobile agents
- ❖ Mobile data management
- ❖ network simulator

## METHODOLOGY

The Online One-week program (05 days in continuum, 07<sup>th</sup> – 11<sup>th</sup> September 2020) will be judiciously utilized by integrating theory classes, practical and audio-visual presentations in online mode. Besides the faculty of MIET, experts will be invited from institutions of science and technology and R & D departments, as Resource Persons.

## TARGET GROUP

Faculty members of CSE/ECE/EE/IT disciplines working at AICTE approved engineering colleges/universities can apply for this program. Applications will be screened for eligibility, and eligible candidates will be selected on First-Come-First-Served basis. Interested applicants need to get them sponsored from the Heads of their Institutions and follow the instructions given under the link (<https://atalacademy.aicte-india.org/signup>) on the AICTE ATAL website (<https://www.aicte-india.org/atal>) regarding registration. Correspondence by email is entertained.

[Note: Seats are strictly to 200 as per AICTE norms, so get your admission confirmed in advance].

## REGISTRATION LINK

<https://www.aicte-india.org/atal>

## REGISTRATION FEES

There is no Registration fee from any participant.

## PEDAGOGY

PPT slides handout, online lecturing, demonstration videos

## ADDRESS FOR CORRESPONDENCE

**Mr. Abhilash, Associate Professor**  
**Department of Information Technology**  
**Meerut Institute of Engineering & Technology (MIET), NH-58, Baghpat Crossing, Delhi Bypass, Meerut, UP,**  
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Tel: 0121-2439057, Fax: 0121-2439058  
Cell No: +91-9412311727  
**E-mail: [abhilash.sharma@miet.ac.in](mailto:abhilash.sharma@miet.ac.in)**

## FIVE DAYS AICTE TRAINING AND LEARNING (ATAL) ONLINE FACULTY DEVELOPMENT PROGRAMME (OFDP)

on

**Mobile Computing and Wireless Networks (MCWN)**

at

**Meerut Institute of Engineering & Technology (MIET), Meerut, Uttar Pradesh**

**07-11, September, 2020**

Name (in block letters): \_\_\_\_\_

Age: \_\_\_\_\_ Sex: Male  Female

Highest Qualification: \_\_\_\_\_

Designation: \_\_\_\_\_

Experience (Teaching/Industrial/Others): \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_

STD-Landline No: \_\_\_\_\_

Cell No: \_\_\_\_\_

E-Mail : \_\_\_\_\_

Signature of the Applicant

**Recommendation of the Principal/Head of the Sponsoring Institute (Signature with seal)**

[Last Date for receiving applications as mentioned on ATAL website <https://www.aicte-india.org/atal>]

### CHIEF PATRONS

Prof. Anil D. Sahasrabudhe, (Chairman, AICTE)

Prof. M. P. Poonia, (Vice Chairman, AICTE)

### PATRON

Prof. Vinay Pathak, (Vice Chancellor, AKTU, Lucknow)

### MENTOR

Er. Vishnu Saran Agarwal (Chairman, MIET)

### PRESIDENT

Er. Puneet Agarwal (Vice Chairman, MIET)

### VICE-PRESIDENT

Dr. Mayank Garg (Director, MIET)

Dr. D. K. Sharma (Dean, Academic, MIET)

### COORDINATOR

Prof. Abhilash (Department of IT, MIET)

### Faculty members of DIT, MIET Meerut

Prof. Nidhi Tyagi

Prof. Satyam Rana

Prof. Gaurav Goyal

Prof. Ramander Singh

Prof. Ajay Verma

Prof. Swati Sharma

Prof. Babli Kunari

Prof. Joney Kumar

Prof. Mukesh Mishra

### GUIDELINES

Due to countrywide lockdown which prevent the conduct FDP face-to-face at this point of time therefore as decided by AICTE OFDP on MCWN is being conducted online. All 14 session will be conducted by resource persons from their respective residence and the registered participants can interact with them online using their Desktop/Laptop/Tablet/Smart Phone with internet connectivity from anywhere.

- Session time will be from **10 AM to 4:45 PM**
- Eligible participants will be selected based on first come first serve basis and will be intimated by email only.
- Coordinators decision will be final regarding the selection of participants.
- An online test will be conducted at the end of the program.
- The certificates shall be issued to those participants who have attended the program with **minimum 80% of attendance** and scored **minimum 60% marks** in the test.

### ABOUT THE CITY

Meerut, the city of Mangal Pandey, is a famous historical city from which indeed the 1857 Indian Independence Drive started. It is the 16<sup>th</sup> largest metropolitan area and the 25<sup>th</sup> largest city in the nation. It is also an ancient city, known as the birth place of Maharani Mandodari of the Ramayana epic, located 56 km north-east of New Delhi. Meerut also has one of the largest army garrisons, cantonments in the country. It is famous for its scissors and Gazak. Meerut is also the sports capital of India.

### ABOUT THE INSTITUTE

MIET, located in the National Capital Region, is one of the oldest self-financed Engineering Institutions in Uttar Pradesh and also one of the best. MIET is declared a **STAR PERFORMER** (an Academic Excellence Award by UPTU). Like a true leader, it has taken several initiatives in the field of technical education that are being followed by other Institutions across the state now. It is a privilege to say that MIET was the earliest to introduce the B.Tech. Course in Information Technology, demonstrating farsightedness on the technological needs of the nation. MIET has an intensive academic environment aimed at bringing out the best out of the students. It lays claim to the finest faculty in the region, offers the best laboratory infrastructure, excellent hostels, mess facilities and promotes several extra-curricular activities. It also has a well stocked library in the state with over 96,000 volumes and subscribes to a number of National and International journals.

### ABOUT ATAL ACADEMY

AICTE Training And Learning (ATAL) Academy was digitally announced with establishment of four Academies in the country at Jaipur, Vadodara, Guwahati and Trivendram by MHRD, Govt. of India on 24.9.2018. In September 2019, eleven new ATAL Academies have also been established at Dehradun, Kanpur, Bhopal, Bangalore, Chennai, Murthal, Srinagar, Patna, Kolkata, Hyderabad and Pune.

Some of the objectives of ATAL being:

- To support technical institutions in fostering research innovation and entrepreneurship through training
- To stress upon empowering technical teachers & technicians using ICT
- To provide a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning communities, peer mentoring and other FDPs



Five Days

**AICTE Training And Learning (ATAL)**

**Online Faculty Development Programme (OFDP)**

on

**Mobile Computing and Wireless Networks (MCWN)**

07-11 September, 2020

**CO-ORDINATOR**

Prof. Abhilash

**Sponsored by**

**AICTE, NEW DELHI**

under

AICTE Training & Learning (ATAL) Academy

Organized by

Department of Information Technology

Meerut Institute of Engineering & Technology,

Meerut



Venue: On your Desktop/Laptop/Tablet/Smart Phone with internet connectivity anywhere