

ONE WEEK RESEARCH SENSITISATION NATIONAL WORKSHOP
ON
“5G and Industrial Internet of Things (IIOTs)”
01-06, April, 2019



April 01-06, 2019

Organized By

TEQIP-3

Technical Education Quality Improvement Program

INSTITUTE OF ENGINEERING & TECHNOLOGY, DR. RAMMANOHAR LOHIA AVADH UNIVERSITY, AYODHYA
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Website
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ABOUT THE CITY

Ayodhya is a holy city of ancient India, where the religious faiths of Hinduism, Buddhism, Islam and Jainism united together to build a place of enormous sacred importance. It is one of the seven most sacred cities of the Hindus in India and situated about 135 km from Lucknow, on the banks of the river Saryu. It was the capital of Hindu kingdom of Kosala. The city is known for being the court of King Dasharatha, who was the father of Lord Rama, an incarnation of Lord Vishnu. Ayodhya is a city of temples as there are about 300 temples. It also holds an important position among Jain

ABOUT THE INSTITUTE

Established in the year 2000, Institute of Engineering & Technology, Ayodhya is one of the leading technical institutions of the region and is responsible for producing top-grade engineers with the skill sets comparable with the best in the world. The institute offers B.Tech. & M.Tech. courses in Mechanical, Information Technology, Computer Sciences, Electronics & Communication, Electrical Civil disciplines in addition to M.C.A. course as well



ATTRACTIONS NEAR US



Ram Janmabhoomi

Ram Janmabhoomi (literally, "Rama's birthplace") is the name given to the site that is the birthplace of Rama, the 7th avatar of the Hindu deity Vishnu. The Ramayana states that the location of Rama's birthplace is on the banks of the Sarayu river in a city called "Ayodhya"



Bahu Begum ka Maqbara

(The Mausoleum of the Queen Bride) the memorial built for queen of Nawab Shujah-ud-Daulah, Unmatuzzohra Bano Begum. Its one of the tallest buildings in Faizabad and is an example of non-mughal Muslim architecture. The monument is a victim of neglect and is crumbling



Kanak Bhavan

Kanak Bhawan is a temple said to have been given to Sita and Rama by Rama's stepmother Kaikeyi as a wedding gift, and only contains statues of Sita with her husband.



Gulab Bari

Literally meaning 'Garden of Roses', the tomb of Nawab Shuja-ud-Daula (third Nawab of Awadh), this place has a good collection of roses of various

varieties set by the sides of water fountains. Gulab Bari also houses a maqbara (Mausoleum) of Nawab Shuja-ud-Daula in the campus.



Hanuman Garhi

Hanuman Garhi, a massive four-sided fort with circular bastions at each corner and a temple of Hanuman inside, is the most popular shrine in Ayodhya. Situated in the center of town, it is approachable by a flight of 76 steps. Its legend is that Hanuman lived here in a cave and guarded the Janambhoomi, or Ramkot. The main temple contains the statue of Maa Anjani with Bal Hanuman seated on her lap. The faithful believe wishes are granted with a visit to the shrine. Kanak Bhawan is a temple said to have been given to Sita and Rama by Rama's stepmother Kaikeyi as a wedding gift, and only contains statues of Sita with her husband.



SARYU GHAAT

A record number of three lakh diyas or earthen lamps will be lit on the banks of Saryu river, by Dr RLAU, while an attempt will be made to enter into the Guinness Book of Record with the lighting ceremony. About 3.35 lakh 'diyas' are planned to be lit up on both the banks of the river and students from various colleges of the Avadh University have come to lit them up, along with other people to light them up," a member of the event management team told news agency PTI.

ABOUT THE WORKSHOP

The aim of this workshop is to sensitize faculty member and young researchers to find the new domain of research area in “5G & Industrial Internet of Things (IIOT)”. The one week course on “5G & Industrial IOT” is especially designed for the faculty members, researchers, scientist working in this field. This workshop will enhance technical and professional skills of the participants. It will provide a forum to bridge a gap between industry and academia. In this workshop different resource persons from industry scientific Labs and academic institutions (like IISC Bangalore, IIT Kanpur, IIT (BHU) Varanasi etc.) will deliver their expert talks on various topics related to the theme of the Workshop.

WORKSHOP OBJECTIVES

- ❖ Wireless Access Technologies
- ❖ Smart Antennas and throughput enhancement
- ❖ 5G Network Architecture, Offloading and relay
- ❖ 5G NR, NR Waveforms and Numerologies
- ❖ Anatomy of IoT device ; Consumer IoT and Industrial IoT requirements
- ❖ Channel Estimations and Equalization Techniques
- ❖ Concept of industry 4.0 requirement, and it's challenges
- ❖ mm wave communication and 5G
- ❖ Cloud based Random Access Network
- ❖ Concept of Small Cell Communication for internet everywhere everytime

WHO SHOULD ATTEND

★ Researchers and engineers from academia, R&D organization, research scholar and industry person can attend this workshop to update their knowledge in the field of emerging technology in the recent context.

DISTINGUISHED SPEAKERS



Dr. Chandramani Kishore Singh
IISC Bangalore



Vishal Karira
Samsung Research center
Koriya



Dr. Chetna Singhal
IIT KHARAGPUR



Dr. N Rajput
IIT (BHU), Varanasi



Satyam Agarwal
IIT Ropar



Anshul Verma
IIT (BHU), Varanasi



Gaurav Baranwal
IIT (BHU), Varanasi



Dr. Prashant Gupta
IIM Trichy



Dr. Anil K. Tiwari
IIT Jodhpur



Dr. R S Singh
IIT (BHU), Varanasi

HOW TO REACH US



The nearest airport Lucknow (Chaudhari Charan Singh International Airport).

Ayodhya city, on NH-27, is connected to all parts of the country by good roads and easily available transport. The important neighboring cities are:

The Ayodhya railway stations are well connected by trains with all major cities such as Delhi, Kolkata, Mumbai, Lucknow, Kanpur, Praya-graj, Varanasi, Agra & Jhansi.

Prayagraj----(157.9km)
Lucknow----(127.5km)
Kanpur-----(222.1 km)
Varansi----- (222.1 km)

STEERING COMMITTEE

CHIEF PATRON

Prof. Manoj Dixit

Hon'ble Vice Chancellor, Dr. R. L. A. U., Ayodhya

PATRON

Prof. P. B. Sharma

BoG Chairman, IET, Dr. RLAU, Ayodhya & Vice Chancellor,

Prof. S. N. Shukla

Pro-VC, Dr. RLAU, Ayodhya

Dr. S. Mariswamy

Chairman PVPWT Dr. AIT Bangalore

CO-PATRON

Prof. R. P. Mishra
Director, IET, Ayodhya

Dr. C. Nanjundaswamy
Principal, Dr. AIT, Bangalore

CO-ORDINATORS

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Er. Ankit Kumar Srivastava

Er. Amit Singh Bhati
Dr. M. V. Mandi

CONVENERS

Er. Ashish Kumar Pandey
Er. Ramesh Mishra

Er. Nitesh Kumar Dixit
Dr. Jyothi Koujalagi

ORGANIZING SECRETARY

Er. Dilip Kumar
Er. Samridhi Singh
Dr. G. V. Jayaramaiah

Er. Paritosh Tripathi
Er. Amit Bharadwaj

COLLABRATIVE RESEARCH COMMITTEE

Er. Amit Bharadwaj IET, Ayodhya Dr. Satyam Agarwal IIT, Ropar Er. Amit Bhati IET, Ayodhya Er. Shambhavi Shukla IET, Ayodhya Er. Ramesh Mishra IET, Ayodhya Prof. Kavita Devi CS Dr. AIT Bangaluru

ORGANIZING COMMITTEE

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Er. Chandan Kumar	Er. Manisha Yadav	Er. Murli Manohar Sharma	Er. Kriti Srivastava
Dr. Vandita Pandey	Er. Chandra Shekhar Verma	Er. Amitesh Kumar Pandit	Er. Anurag Singh
Dr. Brijesh Kr. Bhardwaj	Er. Dviya Tripathi	Er. Ashish Kumar Gupta	Er. Parimal Tiwari
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Er. Umesh Singh	Er. Nupur Singh	Dr. Rakesh Kumar Pandey	Er. Piyush Rai
Dr. Mahima Chaurasia	Er. Praveen Mishra	Mr. Amit Kr. Bhasker	Er. Amit Singh
Er. Nishant Singh	Mr. Ramanadan Tripathi	Er. R K Singh	Er. K L Pandey