

About IIIT-Allahabad

The Indian Institute of Information Technology, Allahabad (IIIT-A) was established in 1999, as a centre of excellence in Information Technology as allied areas by Ministry of Human Resources and Development (MHRD), Govt. of India. The institute was conferred with the 'Deemed University' status by Govt. of India in the year 2000, thus became empowered to have a perpetual seat and award degrees subsequent to the conduct of its own examinations.

Since, the Information Technology (IT) domain has become instrumental in influencing virtually every sector of development and social activity, the concept of IIIT-Allahabad has been conceived with the ambitious objectives of developing professional expertise and skilled manpower in IT and related areas to meet the technological and economic challenges being thrown up by the rapid growth of global IT sector. As an apex nucleating institute in the area of IT, the establishment of IIIT-A, was a major step of Govt. of India towards strengthening the indigenous capability necessary for exploiting profitability and harnessing multi-dimensional facets of IT at all levels, and attaining expertise to enable the country to emerge as a leading player in the global arena. The Institute owes its existence to the vision and untiring efforts of Prof. Murli Manohar Joshi, Union Minister of Human Resources and Development, Science and Technology and Ocean Development, Govt. of India.

The beautiful 100 acres campus, situated at Deoghat, Jhalwa, designed meticulously on the Penrose Geometry pattern, is being further topped by fine landscaping to give an all-around ambient atmosphere to create a stimulating environment for indulging the true pursuit

of excellence in the field of Information Technology and Allied Sciences. The campus plan, based on a bird taking flight symbolizes a launch pad for students to shoot for stars. The Jhalwa Campus is fully residential one, with the faculty, staff and students housed in the campus accommodation. Penrose Geometry was chosen because the process of constructing a 'Penrose Universe' has a remarkable congruence with the fundamentals of the quantum nature of consciousness. The basic units of information are aggregated in simple or complex sequences to provide a variety of 'information structures' that span the entire range of human activity.

With the Penrose layout for the campus, a central zone has been marked out for the academic core consisting of an administrative building, lecture theater complex, central library, computer laboratories and research facilities. The sun pattern has been chosen for laying out the library, computer laboratories and lecture hall complex. The computer laboratories and the administrative buildings are derived from selected tessellated blocks in the star patterns. The lecture theater complex has pentagonal lecture halls seating 100 students. Multimedia labs, tutorial rooms, language labs and meeting rooms are included. The basement of the building contains the air-conditioning plant and other services machinery.

The central library provides students with connectivity to the latest technological material through networked workstations. These are around 140 systems distributed over two floors to access the electronic reading materials.

For more details, visit <https://www.iiita.ac.in/>

Two Day Workshop

on

Internet of Things and Aerial Mesh Networks

19th and 20th December 2019

organised by



**Department of Information Technology
Indian Institute of Information Technology**

in collaboration with

Industrial Venture

at

**Indian Institute of Information Technology
Prayagraj - 211 015**

**Course Coordinators
Prof. Shirshu Varma
Prof. Shekhar Verma**

Internet of Things

Nowadays, Internet of Things (IoT) applications aim to leverage pervasive connectivity that aims to provide its services at anytime to anyone at anyplace. These applications have the capabilities to manage and control devices remotely and process the information in the form of large amount real-time streaming data. Advancement in the technologies made it possible to adapt IoT widely, from the coke vending machine that can pull out the coke from the machine, to smart home devices that can access the environmental conditions and make it comfortable. Over a long haul, IoT facilitates an improved infrastructure using wide variety of technologies for different applications.

Unmanned Aerial Vehicles (UAVs) has been opened new opportunities by enabling new applications in different areas where spatial monitoring is required e.g., surveillance, medicine, military, traffic monitoring applications etc. IoT technologies have great potential on UAVs fitted out with GPS for communication, sensors, and cameras to deliver its services by creating an airborne space of IoT. As a result, UAVs offers collaborative networked environment using "flying" object for various applications.

WSN Lab

The Wireless Sensor Networks (WSN) Lab has been set up at the Indian Institute of Information Technology, Allahabad as an initiative of the Department of Information Technology and Indo korea Research Project. The WSN Lab aims to build up the technical expertise and to foster a culture of entrepreneurship in Wireless communication and Internet of Things.

About the Workshop

The Department of Information Technology is organizing a workshop on Internet of Things from December 19 - 20, 2019. The objective of workshop is to equip Research and Engineering students with the essential tools for designing and realizing IoT related projects. The workshop will comprise of lectures and hands-on sessions on the following topics.

- Raspberry Pi & Raspbian
- Python programming
- Sensors and Actuators
- IoT cloud platforms
- M2M protocols for IoT
- Open source resources for IoT

Resource Persons

The workshop sessions will be conducted by Faculty members from the Indian Institute of Information Technology, Allahabad and resource persons from Research industry and academia.

Who can Apply

Students, Researchers, and Faculties belong to academic institutions and industries from all over the world are eligible to apply for the workshop.

Fee

Fee for the Two day workshop is Rs.500 only. The fee covers study materials and lunch during the workshop. The workshop timings are from 9:30 am to 3:30 pm on all days. Outstation participants can avail the facility of accommodation on the payment basis.

Selection

Only 50 seats are available for the workshop. Participants will be selected from among the applicants to ensure representation from more institutions across the country.

Certification

Participation certificates will be issued by the Indian Institute of Information Technology, Allahabad.

How to Apply

Please apply for the workshop at the url given below. Applicants who are selected for the workshop will be intimated via email to pay the fee and confirm participation for the workshop.

Important Dates

Last date to Apply	November 15, 2019
Intimation of selection	November 30, 2019
Confirmation of participation	December 5, 2019

Contact

Please add our email id shirshu@iiita.ac.in to your address book to receive information from us about the course.

Apply

