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 sean and award degrees subsequent to the conduct of its own examinations.

Since, the Information Technology (IT) domain has became instrumental in influencing virtually every sector of development and socila 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 nucleting 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 multidimensional 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 brid 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 sir-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/`

One Day Virtual Workshop

on

Internet of Things

System Configuration Perspectives

20^{th} **June 2020**

organised by

Wireless Sensor Networks
integrated with
Internet of Things and Aerial Mesh Networks
Laboratory

Department of Information Technology

at

Indian Institute of Information Technology
Prayagraj - 211 015

Overall Coordinator

Prof. Shirshu Varma

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.
Research community has various opportunities to explore various aspects of IoT technologies. In this direction, we take a small step towards configuration of IoT for different application.

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

Wireless Sensor Networks Lab Inegrated with Internet of Things and Aerial Mesh Networks is organizing a workshop on Internet of Things: System Configuration perspective on June 20, 2020. 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 hands-on related to system configuration, with theoretical description.

- Raspberry Pi & Raspbian
- Basic Python programming
- Sensors and Actuators configuration using python libraries
- setup a cloud interface
- setup machine to cloud communication using application programming interface
- Real-Time data capturing and cloud storage

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.

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 selected for the workshop will be intimate via email, and a confirmation response by the participant is required to generate the workshop's final list of participants. Further, participants who listed on the final list can only attend the workshop, which will be displayed on the website.
`iotamn.iiita.ac.in`

Fee

There is No Entry Fee for this virtual workshop.

Selection

Seats are limited to 150 for the workshop. Participants will be selected from among the applicants to ensure representation from more institutions across the country.

Workshop Time Line

Last date to Apply	June 7, 2020
Intimation of selection	June 16, 2020
Virtual Certificate Distribution	June 21, 2020

Contact

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