National Institute of Technology (NIT), Warangal

National Institute of Technology (Formerly, Regional Engineering College (REC)), Warangal was the first to be established (in 1959) among the chain of 15 RECs in the country, setup as joint venture of the Government of India and the state Government. Pandit Jawaharlal Nehru laid the foundation stone for this institute on October 10, 1959. Over the years, the college has established itself as a premier institution imparting technical education of a very high standard leading to the B. Tech. degrees in eight branches of engineering, M. Tech. degrees in twenty-five specializations, P. G. degrees in eight specializations and Ph. D. programs in twelve specializations. It is a self contained residential campus located in a beautiful wooded land of about 248 acres. It is located on either side of Hyderabad - Warangal highway at a distance of 3 Kms from Kazipet railway station and 12 Kms from Warangal railway station. It is located at a distance of 140 Kms from Hyderabad. The Institute has more than 3600 students, 270 teaching staff and 360 administrative and supporting staff. It has a vast and strong alumni base, spread across the globe.

For more details, visit `nitw.ac.in`

Department of Computer Science and Engineering (CSE)

The Department of CSE was established in the year 1991. The Department offers high quality undergraduate, postgraduate and doctoral programs. The B. Tech. (CSE) program was started in the year 1983 with an intake of 20 students. The intake was subsequently increased to 120 in 2008. The M. Tech. (CSE) program was started in 1987 with an intake of 18 and subsequently increased to 20 in 2008 and M. Tech. (Information Security) was introduced in the year 2008 under Information Security Education Awareness (ISEA) project sanctioned by Ministry of Communication and Information Technology (MCIT), Department of Expenditure, Government of India, New Delhi with intake of 20. Later, it was renamed as M. Tech. (Computer Science and Information Security). The Master of Computer Applications (MCA) program was started in 1986 with an intake of 30 and increased to 46 from 2008. B. Tech., M. Tech. (CSE) and M. Tech. (CSIS) programs were accredited in 2014 by National Board of Accreditation (NBA) as per Washington accord.

For more details, visit `nitw.ac.in/department/cse/`

Contact

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AICTE Training And Learning (ATAL)
Faculty Development Programme (FDP) on

Cloud & Fog Computing Platforms for IoT Applications

19th to 30th September 2022

Organized by

**Department of Computer Science and Engg.
National Institute of Technology, Warangal
Warangal - 506004, Telangana, India**

in association with

**All India Council for
Technical Education (AICTE)**
Government of India

Coordinator
**Dr. Rashmi Ranjan Rout &
Dr. Sanjaya Kumar Panda**

Cloud & Fog Computing Platforms for IoT Applications

Cloud and Fog Computing, and IoT have grown exponentially in the business and research community over the last few years. These are now the emerging paradigms and becoming more popular due to their recent advances and applications. Cloud offers dynamic provisioning of computing services on pay-per-use basis. The services are offered in the form of infrastructure, platform and software (applications) which are referred as Infrastructure as a Service, Platform as a Service and Software as a Service in information technology (IT) industry. Fog provides the operation of computing, storage, and networking services between end devices and computing data centers. IoT delivers enhanced customer service, improve decision-making and increase the value of the business. The objective of FDP is to equip the participants with the theory, essential tools and real-life applications of cloud and fog computing, and IoT. The FDP will comprise of lectures and hands-on sessions on the following topics. • Sensors and IoT, and Protocol Stack in Wireless Sensor Networks • Cloud and Fog Computing and its Platforms • Routing Protocols, Device to Device Communication and Service Discovery in IoT • Resource Management and Task Offloading • IoT Data Analytics • Cloud Computing Platforms: Amazon Web Service, Google App Engine and Microsoft Azure • Design Challenges in IoT Applications • Fog Computing Application in Smart City • Industrial IoT • Fog Computing Architecture for Cloud of Things • iFogSim Toolkit • Energy-Efficient Cloud and Fog Computing • Cloud-Fog-IoT Federation • Cloud-Fog-IoT Queuing Model • Security Issues in IoT-Fog-Cloud

Targeted Participants

The programme is open to the faculty members of the AICTE approved institutions, research scholars, PG scholars, Government officers/personnel, bureaucrats, technicians, researchers, practitioners, industry personnel and staffs of NIT, Warangal.

Resource Persons

The resource persons for the FDP are from IITs/NITs/IIITs/central universities/other reputed institutions/industries and host institution NIT Warangal.

Registration Fee, TA/DA, Accommodation, Fooding and Timing

There is **no registration fee** from any participant. **No TA/DA** will be paid to any participant. Participants will have to make their **own stay arrangement** during the offline days. Only tea during sessions and working lunch will be provided to the participants.

Selection

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

Certification

A test shall be conducted by coordinator at the end of the program. The certificate shall be issued to those participants who have attended the program with 100% attendance and scored minimum 60% marks in the test.

How to Apply

Interested participants are required to apply using the ATAL portal.

Important Dates

Last date to Apply	September 9, 2022
Intimation of selection	September 12, 2022
Confirmation of participation	September 13, 2022

Contact

Please add our email id `rashrr@nitw.ac.in` and `sanjaya@nitw.ac.in` to your address book to receive information from us about the FDP.

Apply

`https://atalacademy.aicte-india.org/login`