

Short Term Course

On

Cloud & IoT based Systems, Tools, and Applications

1st July- 6th July 2019

Organized by:



**Department of Computer Science
Engineering
& Information Technology**

Jaypee Institute of Information Technology
(Declared Deemed to be University u/s Sec3 of UGC Act 1956)

Venue: A-10, Sector 62, NOIDA, U.P., INDIA

ABOUT JIIT

Jaypee Institute of Information Technology (JIIT), Noida was established in the year 2001 and has been declared as a “Deemed to be University” under Section 3 of UGC

Act 1956. The undergraduate programs of the university have been accredited by the National Board of Accreditation of AICTE. JIIT’s state-of-the-art, environmentally conditioned campus comprises smart buildings with Wi-Fi connectivity covering the Academic Block, Business School cum Research Block, Faculty Residences, Student Hostels, and Annapurna. Well equipped modern laboratories and an intellectually stocked Learning Resource Centre with over 43750 books and 1.7 lacs e-Resources and resources provide a pleasant and stimulating ambience.

The Department of Computer Science Engineering and Information Technology is a lively and invigorating academic centre for higher education, research, and innovation in key areas of computing. The vision of the department is to be a centre of excellence that provides high quality education to develop future leaders in all aspects of computing including education and entrepreneurship, contributes practically relevant and cutting edge research, and catalyzes IT entrepreneurship.

For more info: <http://www.jiit.ac.in>

ABOUT THE SHORT TERM COURSE

An intensive One week Short term course is being organized for faculty and students of engineering and technological institutions. It is also open to persons from industry and doctoral/M.Tech students. The objective is to provide an exposure in “Cloud & IoT based Systems, Tools and Applications” through interaction with experts in different domains of research in Cloud and IoT. The technical program will include state-of-the-art lectures, discussion/presentation sessions, specifically focused on Insights, Research Scope and Hands-on sessions in the area of Cloud Computing Systems and IoT. The recent emerging trends into the digital technology are the Cloud and Internet of Things (IoT) and their integration. IoT is a technology platform for blending different industries like telecom industry, software development industry,

and electronic hardware manufacturing industry. It is estimated that the IoT will connect trillions of sensors controlled by billions of enhance computing systems for enormous number of applications to address the needs of human challenges. The escalated on demand for the skilled professionals in IoT field with knowledge of extensive computing aspects is the need of hour. Cloud computing is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user. The goal of cloud computing is to allow users to take benefit from all of these technologies, without the need for deep knowledge about or expertise with each one of them. The cloud aims to cut costs and help the users focus on their core business instead of being impeded by IT obstacles. The main enabling technology for cloud computing is virtualization. Cloud as a services is available as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). Integration of IoT and cloud offers public cloud based services to IoT infrastructures by providing third party access. Hence, the integration can help IoT data or computational components operating over IoT devices. By doing this short term course, participants will learn to develop a smart IoT based systems and applications that may ease our day to day and real life activities. Further, they will enhance their skills in cloud and its application. The user can also access the data and analyze it from a remote location. It can be programmed in such a way that the user will get an updates on social media based on a threshold value that they set. The objective of this course is to provide an opportunity for researchers and practitioners from academia and industry to gain insights into the developments along with the existing research challenges in this domain, as well as a practical exposure to effective Cloud & IoT systems, tools, and related applications.

SHORT TERM COURSE CONTENT

Expert lectures and extensive hands-on sessions cover following topics:

- *IoT Ecosystems*
- *IoT Networking*
- *IoT Applications*
- *Cloud Computing and its Services*
- *Virtualization*
- *Big Data, Hadoop & Analytics*
- *Simulation on CloudSim and AWS*
- *Private Cloud Deployment and Usage*
- *Intergation of IoT with Cloud Platforms*
- *Intergation of IoT with Big Data*
- *IoT Development Frameworks*

CHIEF PATRONS

Hon'ble Shri Jaiprakash Gaur ji
Hon'ble Shri Manoj Gaur ji

PATRONS

Prof. S.C. Saxena, Vice Chancellor, JIIT
Prof Hari Om Gupta , Director (Sec-128)
Prof. R.C.Mittal, Dean (RID)
Prof. D.K. Rai , Dean(AR)

CONVENERS

Dr. Prakash Kumar
Dr. Taj Alam

ORGANIZING COMMITTEE:

Dr. Charu
Dr. Chetna Dabas
Dr. Gagandeep Kaur
Dr. Gaurva Verma
Dr. Kavita Pandey
Dr. K. Rajalakshmi
Dr. Nisha Chaurasia
Dr. Raghu Vamsi

Dr. Ruby Beniwal
Dr. Sangeeta Mittal
Dr. Sanjeev Patel
Mr. Kashav Ajmera
Mr. Mahendra Gurve
Mr. Sudhanshu Kulshrestha
Ms. Varsha Garg
Mr. Vikas Hassija
Mr. Vivek Kumar Singh

RESOURCE PERSONS

Eminent academicians affiliated to IITs, IIITs, NITs, other renowned institutes and Industry experts will deliver the sessions with practical demonstrations.

HOW TO APPLY

Registration can be done using Google form link below:

<https://forms.gle/EmRypxVWx42YW84XA>

Registration fee should be paid through NEFT/DD and the transaction details should be mentioned in Google form.

Expected Audience: Industry personnel, Faculty, Research Scholars, and M.Tech/B.Tech Students.

Registration fees:

Industry Personnel	Rs. 3000
Faculty	Rs. 2000
Research Scholar/ M.Tech Students	Rs. 1000
Internal faculty	No Fee

Last date of Registration: 19th June 2019.

Bank Details for NEFT:

Account Name: Jaypee Institute of Information
Technology Noida Sec 62
Bank name: IDBI bank, Sector 18 Noida
Account Number: 109102000007436
IFSC Code: IBKL0000109

Demand Draft drawn in favour of “Jaypee Institute of Information Technology” payable at Noida.

For any query, contact:

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HOW TO REACH

Metro: The institute is at a walking distance from the metro station ‘Noida Electronic City’ (Noida City Centre is extended till this station).

Railway Station: Hazarat Nizamuddin, New Delhi Railway Station, Old Delhi railway station and Ghaziabad Railway Station connect Noida to the Indian Railway Network.

Accommodation & Support

- The registration fee contains Lunch and Tea during short term course.
- The participants will have to bear their own travelling and accommodation expenses.
- Limited accommodation will be provided on first come first served basis to the participants, based on the availability of rooms in the institute Guest House and Hostels on payment basis.