



**Dr. B.R. Ambedkar National Institute of Technology, Jalandhar**

Grand Trunk Road, Amritsar Bypass, Jalandhar, Punjab - 144011

**TEQIP-III SPONSORED  
ONE WEEK ONLINE  
SHORT TERM COURSE (STC)**

on

***Cloud of Things: Theoretical and Practical  
Implications***

Department of Information Technology

***Eminent Speakers***



Prof. Lalit K Awasthi  
Director  
NIT Jalandhar



Dr. Deepak Puthal  
Newcastle University  
UK



Dr. Sateesh K  
Peddoju  
IIT Roorkee



Dr. Mayank Dave  
NIT Kurukshetra  
India



Dr. N C Kaushal  
NIT Hamirpur  
India



Dr. Pilli Emmanuel  
Shubhakar  
MNIT Jaipur, India



Dr. D P Vidyarthi  
JNU, Delhi  
India



Dr. O P Verma  
NIT Jalandhar  
India

***PATRON***

Prof. (Dr.) Lalit Kumar Awasthi  
Director, NIT Jalandhar

***CONVENER***



Dr. Renu Dhir (HoD-IT)

***CO-CONVENER***



Prof. A. L. Sangal (HoD-CSE)

***COORDINATORS***



Dr. Mohit Kumar



Dr. Nisha Chaurasia



Dr. Rajneesh Rani

***ORGANISING  
COMMITTEE***

Dr. Harsh K. Verma  
Dr. Geeta Sikka  
Mr. D. K. Gupta  
Dr. Samayveer Singh  
Dr. K. P. Sharma  
Dr. Nonita Sharma  
Dr. Amritpal Singh  
Dr. Prashant Kumar  
Dr. Kunwar Pal  
Dr. LalatenduBehra  
Dr. Urvashi



<https://forms.gle/V28CJxzYj3uXivxC9>

**No Registration Fee**

**One Week Online**

**Short Term Course**

ON

***Cloud of Things: Theoretical and  
Practical Implications***

**10<sup>th</sup> August- 14<sup>th</sup> August 2020**

**(TEQIP-III Sponsored)**

**Organized by:**



**Department of Information Technology**

**Dr B R Ambedkar National Institute of  
Technology Jalandhar**

**Grand Trunk Road, Amritsar Bypass, Jalandhar,  
Punjab 144011**

***Venue: Google Meet***

### ***ABOUT NIT Jalandhar***

Dr B R Ambedkar National Institute of Technology was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed University) by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. Now the Ministry of Human Resource Development, Government of India has declared the Institute as “Institute of National Importance” under the act of Parliament-2007. A large number of reputed Industrial houses in the country visit the Institution and select the final year students as Engineers/ Management Trainees. As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high quality education in Engineering, Technology and Sciences to produce competent technical and scientific manpower for the country. The Institute offers B.Tech, M.Tech, M.Sc, MBA and Ph.D. programmes in the several disciplines of Engineering, Technology and Sciences.

For more info: <http://www.nitj.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/B. Tech students. The aim of short-term course is to provide an exposure in “Cloud of Things: Theoretical and Practical Implications” 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 challenges and Hands-on sessions in the area of Cloud/Fog Computing and IoT. The recent emerging trends into the digital technology are Cloud and Internet of Things (IoT) and their integration as CoT. IoT is a technology platform for blending different industries like

telecom industry, software development industry, and electronic hardware manufacturing industry.

### ***OBJECTIVES OF SHORT TERM COURSE***

- Reviewing cloud computing concept
- Understanding sensor cloud and its future directions.
- Discussion about Fog/Edge Computing and its Applications
- Identify sensor and IoT devices as big data generator
- Provide insight on Integration of IoT with Cloud Platforms
- Provide machine learning as research opportunity in big data
- Practical demonstration at CloudSim and AWS

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 computing 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.

## ***SHORT TERM COURSE CONTENT***

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

- *Cloud Computing and its Services*
- *Fog/Edge Computing and its Applications*
- *IoT Networking*
- *IoT Applications*
- *Big Data & Analytics*
- *Simulation on CloudSim and AWS*
- *Machine vs Deep Learning*
- *Integration of IoT with Cloud Platforms*
- *Integration of IoT with Big Data*

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**Dr. Kunwar Pal**  
**Dr. Lalatendu Behra**  
**Dr. Urvashi**

## ***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/V28CJxzYj3uXivxC9>

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

**Last date of Registration:** 9<sup>th</sup> August 2020.

**Certificate of participation will be provided online.**

## ***For any query, contact:***

**Dr. Mohit Kumar**  
**Dr. Nisha Chaurasia**  
Department of IT  
Dr B R Ambedkar NIT Jalandhar, Punjab, India-144011  
Ph: +91-9759950380, 7000591658  
Email: kumarmohit@nitj.ac.in, chaurasian@nitj.ac.in