

## **Report on Five day online STC “Cloud of Things: Theoretical and Practical Implications” held between 10-14 August, 2020 in IT Department, NITJ**

### **Theme of the STC**

The Information Technology Department has organized an online five day Short Term Course on the topic “**Cloud of Things: Theoretical and Practical Implications**” during August 10-14, 2020.

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.

For the ease of beginners, the program was divided into various phases with their following respective objectives:

- 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

### **Itinerary of the STC:**

Prof. Lalit Kumar Awasthi, , NIT Jalandhar was the Chief Guest on the inauguration of this occasion. **Dr S K Mishra, Registrar** NIT Jalandhar, Dr. A Mukhopdhay Dean Academic, Dr S. K. Sinha Dean Research and Consultancy were also present during this occasion.

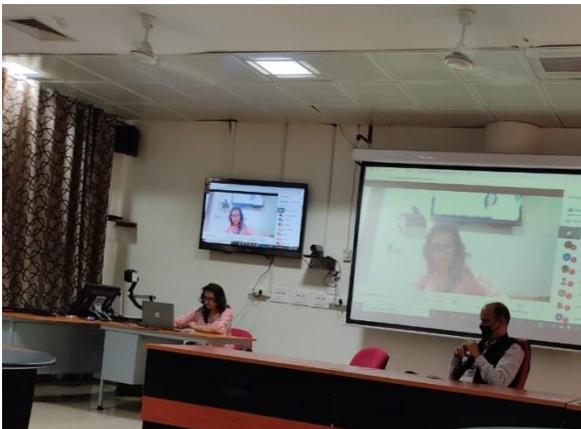
Dr. Renu Dhir Head(IT Department) and Convener of the course, Dr. Rajneesh Rani, Dr Mohit Kumar and Dr Nisha Chaurasia (Co-ordinators) of the Programme, were also present in this online inaugural session.

In the inaugural speech, Prof. Lalit Kumar Awasthi, Director NITJ, while pointing out the progress the Institute has made in last couple of years, said that the theme of the course is apt in the today's context. He also added that there was a lot of scope whereby field of Cloud of things can be linked with other branches of engineering for joint collaboration in terms of Research and Development activities. Prof. Awasthi appreciated the efforts of the organizing team under the guidance of Dr Renu Dhir, for bringing the renowned personalities working in diverse spectrum of the field of Cloud Computing on one common platform to enable them to exchange their eminence and experience in their respective fields with the stakeholders. Dr Renu Dhir Head(IT), also spoke on this occasion and attributed success of such endeavours to the guidance and encouragement rendered by Prof. L.K. Awasthi, Director.

The speakers who spoke in 10 different sessions of this five days' course on various topics pursuant to the theme of the course include: Dr Deepak Jain (Chongqing University, China), Prof. D.P Vidharthi (Professor, JNU, New Delhi), Professor Mayank Dave(NIT Kurukshetra), Dr Shubhakar Pilli (NIT Jaipur), Dr Narotam Chand(NIT Hamirpur), O P Verma (DTU), Dr Suryakant(PostDoc Researcher, UK), Dr Sateesh K Peddoju(IIT Roorkee).

In all 550 delegates including faculty members, scientists, field professionals, practicing engineers; and UG and PG students along with research scholars affiliated to various IITs, NITs, Central and State Universities and affiliated colleges thereof from different parts of the country and also from abroad participated in the course via online mode.

At the valedictory function, Prof. Awasthi expressed happiness on the overwhelming response from participants and their positive feedback and assured many more such programmes in the future. Dr. Renu Dhir (Convener) presented the report of the proceedings of the Course and proposed vote of thanks.



*Valedictory of Online STC "Cloud of Things: Theoretical and Practical Implications" organized by department of Information Technology between 10-14 August, 2020*

