

**AICTE-ISTE sponsored Refresher/Induction Programme on “Use of ICT in Engineering Education”**

**Organized by Department of ECE, MSIT**

**Coordinator: Dr. Meena Rao**

**Online programme**

Slot-1: 24<sup>th</sup> February to 2<sup>nd</sup> March 2021

Slot-2: 15<sup>th</sup> to 20<sup>th</sup> March 2021

Slot-3: 7<sup>th</sup> to 13<sup>th</sup> April 2021

A Refresher/Induction programme was organized by the Dept of ECE, MSIT in three different slots. It was an online programme wherein Slot-1 was from 24<sup>th</sup> February to 2<sup>nd</sup> March 2021, Slot-2 from 15<sup>th</sup> to 20<sup>th</sup> March 2021 and Slot-3 from 7<sup>th</sup> to 13<sup>th</sup> April 2021. The topic for all the three programmes was “Use of ICT in Engineering Education” and the programmes were funded by AICTE-ISTE. Coordinator of the programme was Dr. Meena Rao. The programme was organized for faculty members from all over India and the aim was to inform about various Information and Communication tools that can be used for teaching learning process. All the three slots saw the participation of 100 participants (maximum limit). The experts were from renowned Institutes like IIT, IIITs, NITs, NSUT, reputed industries etc. who gave wonderful insights to the participants. The topics ranged from blended learning, virtual labs, Google classroom, Virtual Labs etc.

Some of the major outcomes from the programme are listed below:

1. Interaction with AICTE and ISTE officials: The programme provided us an opportunity to interact with Col. B. Venkat, Director FDP, AICTE and Prof Vijay D. Vaidya, Executive Secretary ISTE. The faculty members and participants became more aware about the various programmes and schemes that are being offered by ISTE and AICTE.
2. The faculty members were made aware about various online tools, mediums and digital technologies that are available for better impartment of teaching learning process. Participants learnt that teaching learning can be made more effective through the use of various techniques and digital tools like Google classrooms, Mendeley, Google Jamboard, interactive board, pen tablets etc.

3. Participants also gained knowledge about Virtual Labs through which labs can be remotely accessed from anywhere and anytime. Various labs of different engineering branches are available through virtual labs and are quite helpful in imparting practical engineering knowledge especially during the Covid 19 pandemic.
4. The programme gave a platform for various teachers to interact and share their knowledge regarding various modes and means they can use for effective online teaching.
5. Participants also discussed the issues they faced during online teaching and the steps they took to tackle it and they also discussed about the ways for effective and better knowledge distribution.
6. Faculty members became aware about various methods for evaluation of students, improved communication and interaction, better doubt solving, improved ways of conveying lab knowledge.



17:04

## Flipped Classroom

### Flipped Learning

'Flipped Learning' is a pedagogical approach in which direct instruction moves from the **group learning space** to the individual learning space, And the resulting group space is transformed into a **dynamic, interactive learning environment** where the educator guides students as they apply concepts and engage creativity in the subject matter.

Dr. B

Dr. T. G. Srinivas, Professor in the Dept. of Engineering Education

08:27:14

Zoom meeting interface showing four participants in a 2x2 grid. The bottom bar contains icons for mute, video, chat, and other controls.

13:44

Zoom meeting interface showing a gallery view of participants. The top row shows SK (Saraj K.) and DG (Dr. G. (Guest)). The bottom row shows Dr. J., RG (Riche G.), SC (Seethi C.), and PA. The interface includes a sidebar with icons for mute, video, chat, and a red call button.

### VIRTUAL LAB AND REMOTE LAB

**Client side**



**Server side**



	Virtual Lab	Remote Lab
Accessibility	Not limited	Must respect a protocol
Cost	Low	High
Learning	Students can interact on	Learners can work in a remote mode
Maintenance	Software updating	Hardware maintenance and software updating
Security	Reasonable	Low
Reliability	Yes	Yes