IIT Remote Center

Don Bosco College of Engineering

Academic year 2019-2020

Inside this issue

♦Departmental Activities♦

- Electronics and Telecommunication Engineering Department
- Mechanical Engineering Department

OVERVIEW

- The "Teach 1000 Teachers" programme was initiated by IIT Bombay in 2009 under the project, "Empowerment of Students/Teachers," sponsored by NMEICT (MHRD.) The main aim of this programme is to work with Engineering Colleges in the country to enhance the teaching skills of faculty colleagues in core Engineering and Science subjects.

- The "Teach 1000 Teachers" uses an ICT enabled process involving both synchronous and asynchronous mode to actually reach out and engage a large number of teachers and Live lectures are given by IIT faculty. The participating teachers attend at a remote centre close to their own college, and also attend tutorial and lab sessions conducted in the same centre.

- The lecture transmission and live interaction takes place through distance mode using the AVIEW technology and the internet, at selected remote centres across the country. Faculty coordinators are appointed at each remote center, to handle the technology infrastructure and other operational logistics. Additionally, for each

workshop, there is a workshop faculty coordinator for that subject who will help in the conduct of labs and tutorials at that center. All the lectures and tutorial sessions are recorded. The final edited audio-visual contents, along with other course material are released under Open Source. These contents can be freely used later by all teachers and students.

- A Remote Center acts as the intermediary between IIT Bombay and the participating teachers during the workshop. It is usually a reputed engineering college, with high academic standards, excellent infrastructure and good faculty with expertise and experience of handling workshop subjects, to guide the participants in Lab work.

- A Remote Center (RC) is a place from where the participants/people can interact with the instructor (faculty at IIT) who is conducting the course or delivering a lecture from IIT Bombay. The live lectures are transmitted at Remote Centers using A-VIEW software.

- Lectures are delivered at IIT Bombay, using multi-way visual interaction. Tutorials and labs are conducted at remote centers by a local senior faculty, trained earlier by the expert.

OBJECTIVES

•The Remote Center (RC) is usually a reputed engineering college with good facility and infrastructure .

•It acts as a host for the virtual classroom environment created by A-VIEW and enhances distance learning.

•The participant can attend the workshop in a RC close to his/her place. The RC minimizes the logistics of travel, boarding and lodging.

IIT REMOTE CENTER AT DON BOSCO COLLEGE OF ENGINEERING

Don Bosco College of Engineering has been selected as a remote center for IIT workshops since August 2018. Being a part of this project our Institute has been conducting several remote center workshops, jointly with IIT Bombay.

DBCE being a second remote center in the state of Goa, has been conducting effective faculty development programs and soft skills training for students. The remote center Id of Don Bosco College of Engineering is 1538.

DEPARTMENTAL ACTIVITIES

The Remote center coordinator of Don Bosco College of Engineering is Prof Amrita Naik.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT

Don Bosco College of Engineering under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching organized a one – day Workshop on "eSim" on 21 September 2019.

IIT REMOTE CENTER WORKSHOP ON eSim

Around 120 Remote Centres participated in this workshop all over India, Don Bosco College of Engineering being one of them. The workshop coordinator was Prof. Kimberly Morais and remote center coordinator for the workshop was Prof. Amrita Naik. The entire workshop was guided by Prof. Kimberly Morais and well assisted by Mr. Ignatius Dias, Mr.Romeo D'Cruz and Mr.Amit Sapkal. In the inaugural function, Prof. Kannan Moudgalya, FOSSEE project, IIT Bombay spoke of the importance of eSim and also talked about the flow of the workshop and the teaching faculty of the workshop, Prof. Pramod Murali explained why hardware has been included. Following this, Ms. Nancy Varkey introduced the Spoken Tutorial Forum. The workshop was solely based on learning eSim using Spoken Tutorial wherein participants were introduced to 9 videos on eSim.

The content of videos included getting started with eSim Linux installation, getting started with eSim Windows installation, schematic Creation and Simulation, device Model creation and Simulation, Mapping Components with Footprints, setting Parameters for PCB designing, laying Tracks on PCB, PCB Layout for Astable Multivibrator.

The participants of the workshop were teachers from various colleges in the states such as GEC, Padre Conceição College of Engineering, Shree Rayeshwar Institute of Engineering and Information Technology, Parvatibai Chowgule college, ITI-Cacora, ITI- Canacona & Government Polytechnic Panaji. The participants had to watch each of these videos, follow the instructions and replicate the same. If there were any difficulties then such questions were to be put up on the forum which was then replied to by the organizers. This workshop was entirely based on self-learning so that the participants familiarized themselves to eSim by getting a first-hand experience.

For the valedictory function, there was a panel discussion wherein the participants asked difficulties related to eSim in their respective Remote Centres.

MECHANICAL ENGINEERING DEPARTMENT

Don Bosco College of Engineering under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching organized a **One – Day Workshop on "R Programming" software for statistical computing on 9th November 2019**..

IIT REMOTE CENTER WORKSHOP ON R PROGRAMMING

Around 188 Remote Centre participated in this workshop all over India, Don Bosco College Of Engineering being one of them. The Workshop was conducted online through A-VIEW software. The workshop coordinator was Prof. Sanjeel Naik and remote center coordinator of the workshop was Prof. Amrita Naik. The entire workshop was guided by Prof. Sanjeel Naik and well assisted by Mr. Amit Sapkal, and Mr.Romeo D'Cruz.

In the inaugural function which wasa Online session through A-VIEW, Prof. Radhen duskha Srivastava and Prof Kannan Moudgalya,spoke the importance of "R" and also talked about the total course content to be learnt.

Following this, Ms. Nancy Varkey introduced the Spoken Tutorial Forum. The workshop was solely based on this Spoken Tutorial Forum wherein participants were introduced to 22 videos on R.

The content of videos included Getting started with Introduction to basics of R, data frames in R, Indexing and data slicing in R, plotting Histograms, Pie charts, Bar charts. Scatter plot etc covering a total of 22 Spoken Tutorial videos which are freely available.

The participants of the workshop were teachers from various colleges in the states such as Padre Conceição College of Engineering, Goa College of Engineering, Chowgule College of Arts and Science, Agnel Polytechnic, and Don Bosco College of Engineering. The participants had to watch each of these videos, follow the instructions and replicate the same in the R Studio interface. If there were any difficulties then such questions were to be put up on the forum which was then replied to by the organizers. This workshop was entirely based on self-learning so that the participants familiarized themselves to R by getting a first-hand experience. The Workshop was a good learning experience for the participants.

For the valedictory function, there was a panel discussion wherein the participants asked difficulties related to R in their respective Remote Centres and was answered by Prof. Kannan Moudgalya.

Compiled by:

Amrita Naik

Remote Center Cordinator

Don Bosco College of Engineering