



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REPORT ON EVENT

“Five Day Faculty Development Programme on Advanced Communication systems”

Event Type : Faculty development program

Date / Duration : 05th -09th June 2023

Resource Persons :

- Dr.Vimal Bhatia, Professor, Department of Electrical Engineering, IIT Indore.
- Dr.Raghvendra Kumar Chaudhary, Department of Electrical Engineering, IIT Kanpur.
- Dr.Hemanth Kumar, Department of Electronics and Communication Engineering, NIT Tiruchirappalli
- Dr. P. Maheswaran , Department of Electronics and Communication Engineering, NIT Tiruchirappalli
- Dr. Subrahmanya Swamy Peruru, Department of Electrical Engineering, IIT Kanpur.

Name of Coordinator: Dr.M.Venkata Sudhakar

Name of Co-Coordiators: Dr.B.Y.V.N.R.Swamy and Dr.P.Rakesh Kumar

Target Audience : Faculty and Research Scholars

Total no of Participants: 240

Objectives of the event:

The objectives of the FDP are:

- To investigate recent advances in the fields of Visible Light Communications (VLC), mm-wave Mountable Antennas and 5G technologies.
- To stimulate new ideas for research on VLC, 5G, Advanced antennas and mm-wave model.
- To provide a venue for researchers to improve their expertise in generating solutions for sophisticated communication systems.

Outcomes of event :

The outcomes of the FDP are:

- The development of models for fifth-generation (5G) communications
- The creation of visual communication systems for use in interior environments
- The modeling of milli-meter wave systems and Mountable antennas.

Description / Report on Event:

Department of ECE of Lakireddy Bali Reddy College of Engineering (Autonomous), has organized FDP on "Advanced Communication systems". The Program was conducted from 05-06-2023 to 09-06-2023. FDP started with the Inauguration Function, in which Principal, HOD, and Coordinator and chief guest presented their views on the importance and objective of conducting the FDP and motivated all the participants to effectively utilize all the sessions and gain knowledge.

During First day, Dr.Vimal Bhatia, Professor, Department of Electrical Engineering, Indian Institute of Technology indore, India, has given the presentation on "Visible light communications." During day two, Dr.Raghvendra Kumar Chaudhary, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Kanpur, India, has given the presentation on "Multifunctional MIMO Cognitive Radio System for Integrated Interweave-Underlay Operations for 5GCommunications".

During day three, Dr.HemanthKumar, Assistant Professor, Department of ECE, NIT Trichy, has given the presentation on "monopulse tracking for microwave/millimeter wave applications". During day four, Dr. P. Maheswaran, Assistant Professor, Department of ECE, NIT Trichy, has given the presentation on "Orthogonal Time Frequency Space Modulation: A Waveform for B5GCommunications". During day five, Dr. Subrahmanya Swamy Peruru, Department of Electrical Engineering, IIT Kanpur, has given the presentation on "Reinforcement learning and its application in communication networks".

The lectures have proven to be very inspiring and informative for the faculty. 240 ECE faculty members and research scholars have attended the FDP. The program ended by advising faculty members to effectively utilize the learned concepts in projects implementation, research paper writing, lab-development, and syllabus revision.

Below link used for FDP registration:

<https://tinyurl.com/LBRCE-FDP-ACS>

Link given below is used for attending FDP session:

https://teams.microsoft.com/l/meetup-join/19%3a25rqyp1n0q_BzG5Da6nSkjA6w6DUeu05IIRjo0ms9vg1%40thread.tacv2/1685592331657?context=%7b%22Tid%22%3a%2207f3ae2f-c55d-46be-9215-1453785ba103%22%2c%22Oid%22%3a%22772a082e-cdd3-42c1-9c84-6965a6c2aff8%22%7d

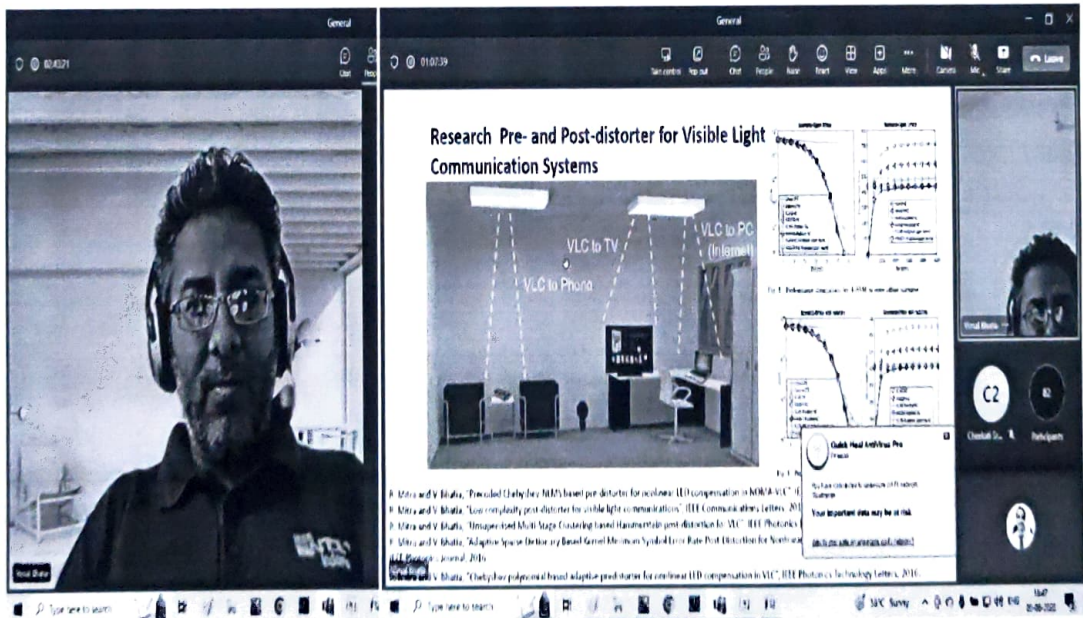
Feedback / Suggestions:

1. Conduct more number of FDPs on similar advanced topics.
2. More Practical exposure is required

Photographs



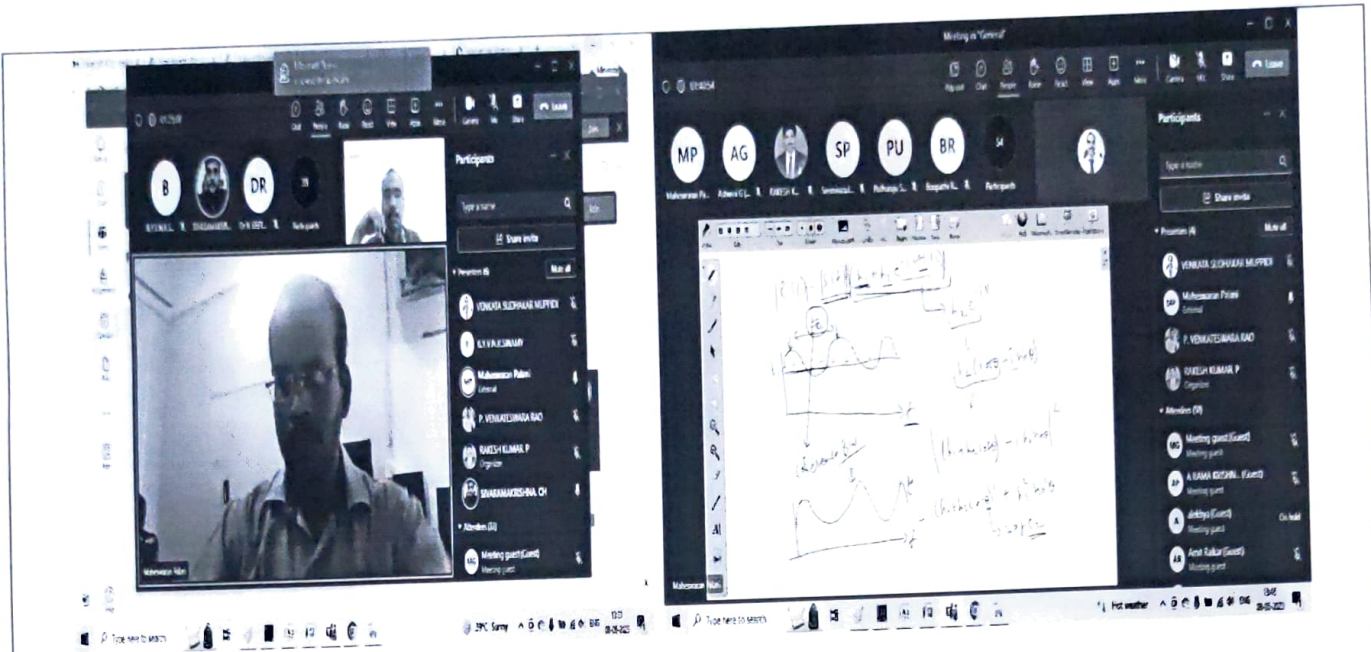
Inaugural Function by Dr.Y.Amar Babu, HOD ECE, Dr.Vimal Bhatia, IIT indore, and Dr.K.Appa Rao, Principal



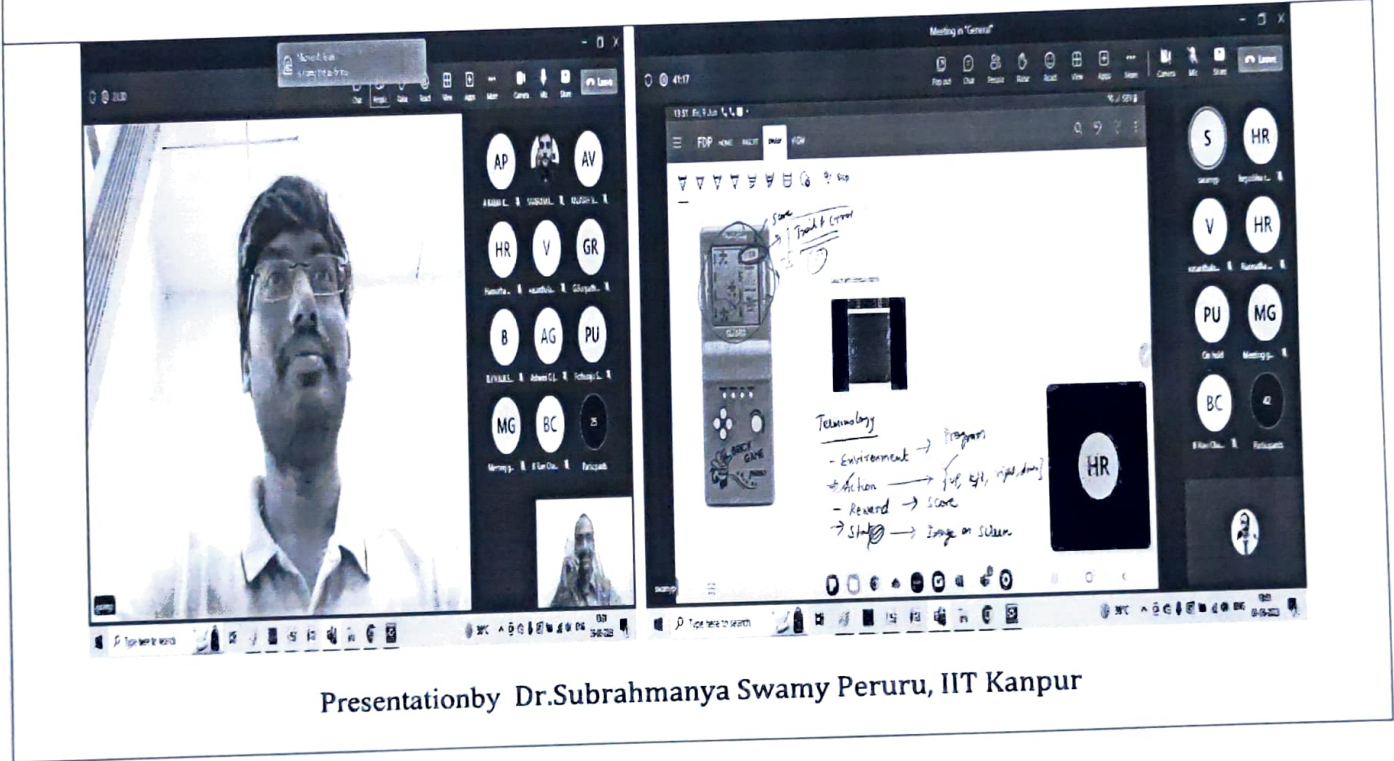
Presentation by Dr.Vimal Bhatia, IIT Indore

Presentation by Dr. Raghendra Kumar Chaudhary, IIT Kanpur

Presentation by Dr. Hemant Kumar, NIT Trichy



Presentation by Dr. P. Maheswaran, NIT Trichy



Presentation by Dr. Subrahmanya Swamy Peruru, IIT Kanpur



Coordinator *MS* 12/6/23

MS
HOD, ECE