DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Guest Lecture
on
"Modern Trends of Communication"

By Sri. P. Kalee Prasad, Senior Engineer, Doordarshan, Vijayawada

20 May, *2021*

The Department of Electronics and Communication Engineering has organized a Guest Lecture entitled "Modern Trends of Communication" on 20th May, 2021. The target audiences are the faculty and students of II B.Tech – ECE of Sree Vidyanikethan Engineering College, Tirupati.

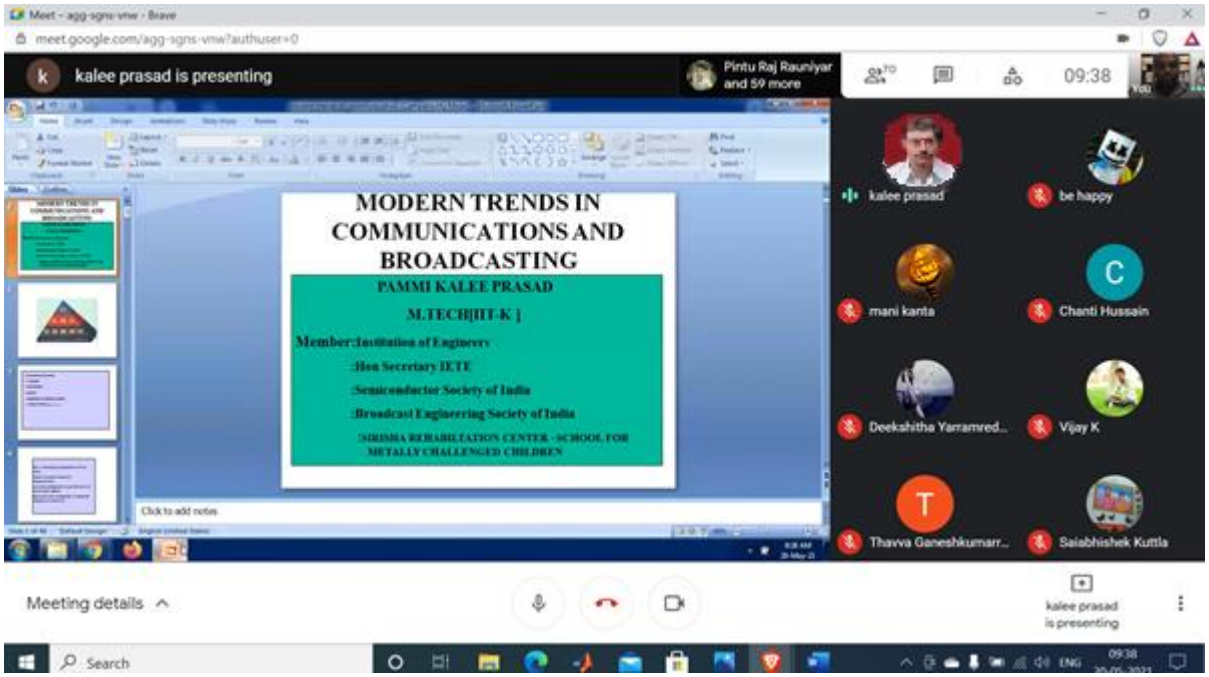
The lecture started with the essence of the requirement of modulation. The speaker has stressed upon the requirement of data, signals and which in turn perceived as information are sent from one location to another in fraction of seconds in the current day. This is possible with the rapid development in the field of Electronics and Communication Engineering. Earlier systems use analog modulation that allows the message signal to be propagated over longer distances. But these systems tend to be vulnerable to noise. Hence, with the developments in field of communications the new ear of Digital conversion from Analog has evolved. Further, drawback on analog based communication systems are discussed paving way to digital communications.

The speaker has stressed upon the usage and need for satellite communications. A communications satellite is an artificial satellite that relays and amplifies radio telecommunication signals via a transponder; it creates a communication channel between a source transmitter and a receiver at different locations on Earth. Communications satellites are used for television, telephone, radio, internet, and military applications. Further, the effect of environment on the satellite communications is discussed.

The concepts of Non-LOS(NLOS) and beyond-LOS(BLOS) are the main highlights of the lecture that has motivated the entire stream of audience. These are the two main cases of propagation that are successfully deployed to provide robust and secure link. Further, highlighting on the requirement of wireless communications, the lecture ended with the introduction to the basics of cellular communications and a questionnaire from the students is dealt at the last.

77 students of II B.Tech – ECE have attended the lecture. Dr. V. V. Satyanarayana Tallapragada, Associate Professor organized this event under the guidance of Dr. N. Gireesh, Professor and Head, Department of Electronics and Communication Engineering.

The session ended with the oral feedback from the participants. All the participants have commended the lecture and has given a positive feedback. The screenshots of the session are as follows: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M.TECH[IIT-K]
Member:Institution of Engineers
:Hon Secretary IETE
:Semiconductor Society of India
:Broadcast Engineering Society of India
:SRIDHA REHABILITATION CENTER - SCHOOL FOR MENTALLY CHALLENGED CHILDREN
Click to add notes
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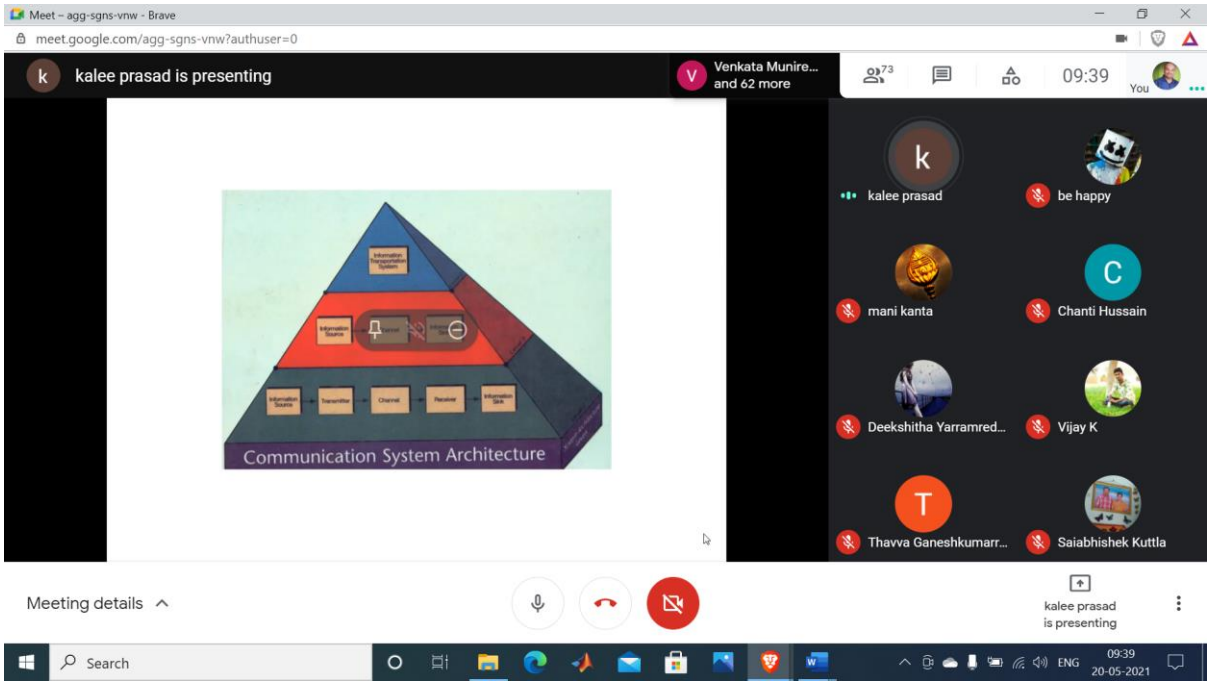
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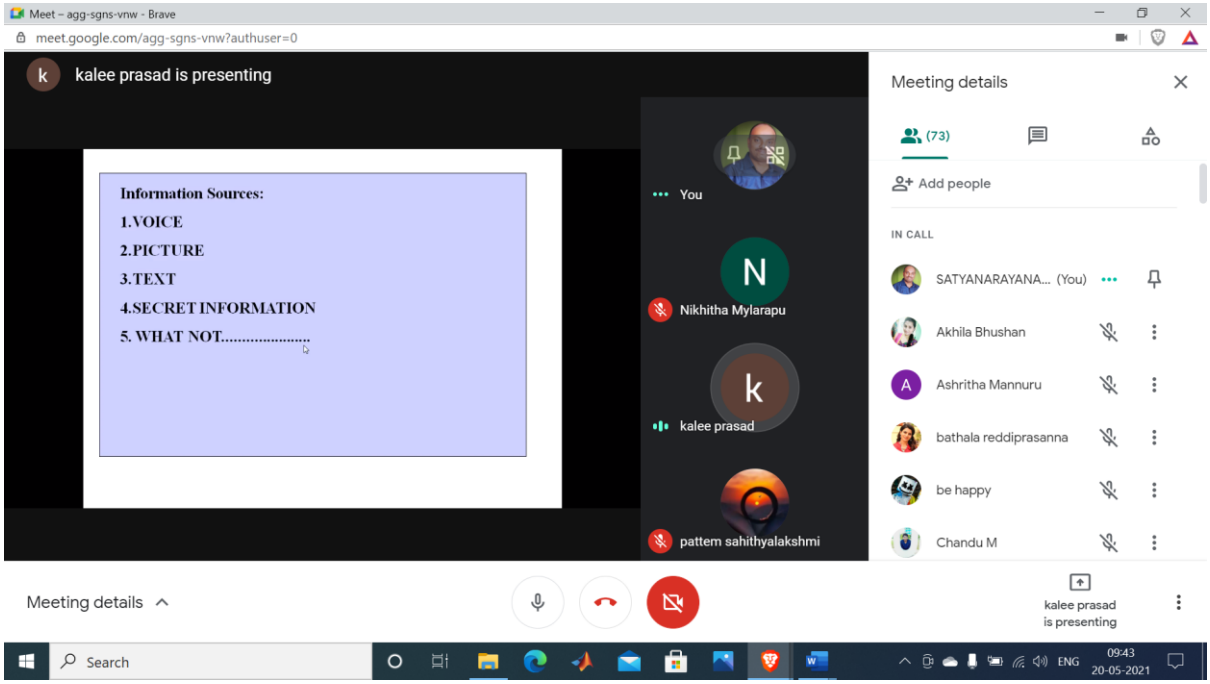
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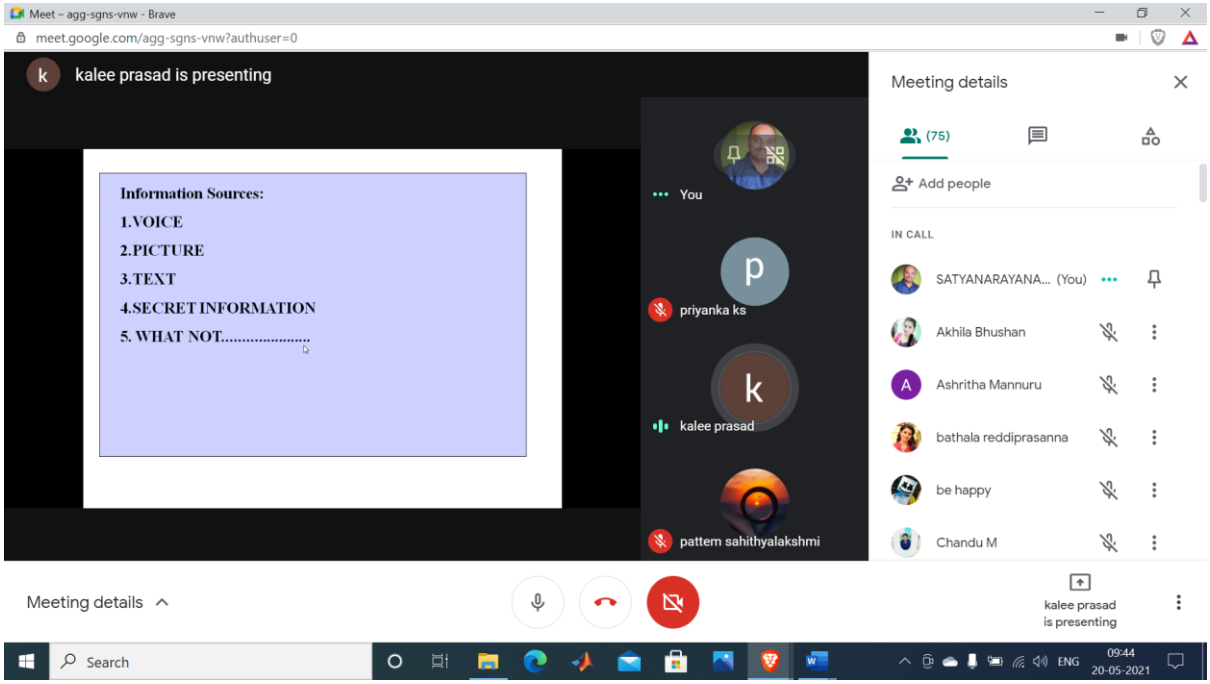
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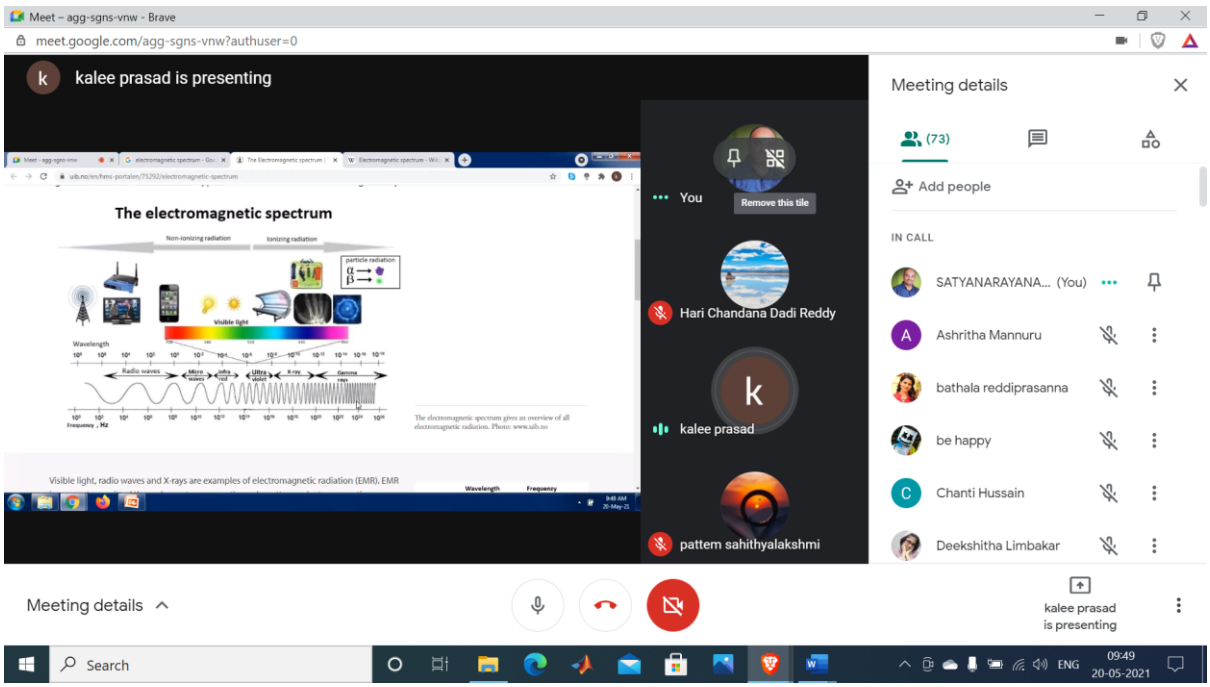
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kalee prasad is presenting
The electromagnetic spectrum
Visible light, radio waves and X-rays are examples of electromagnetic radiation (EMR). EMR
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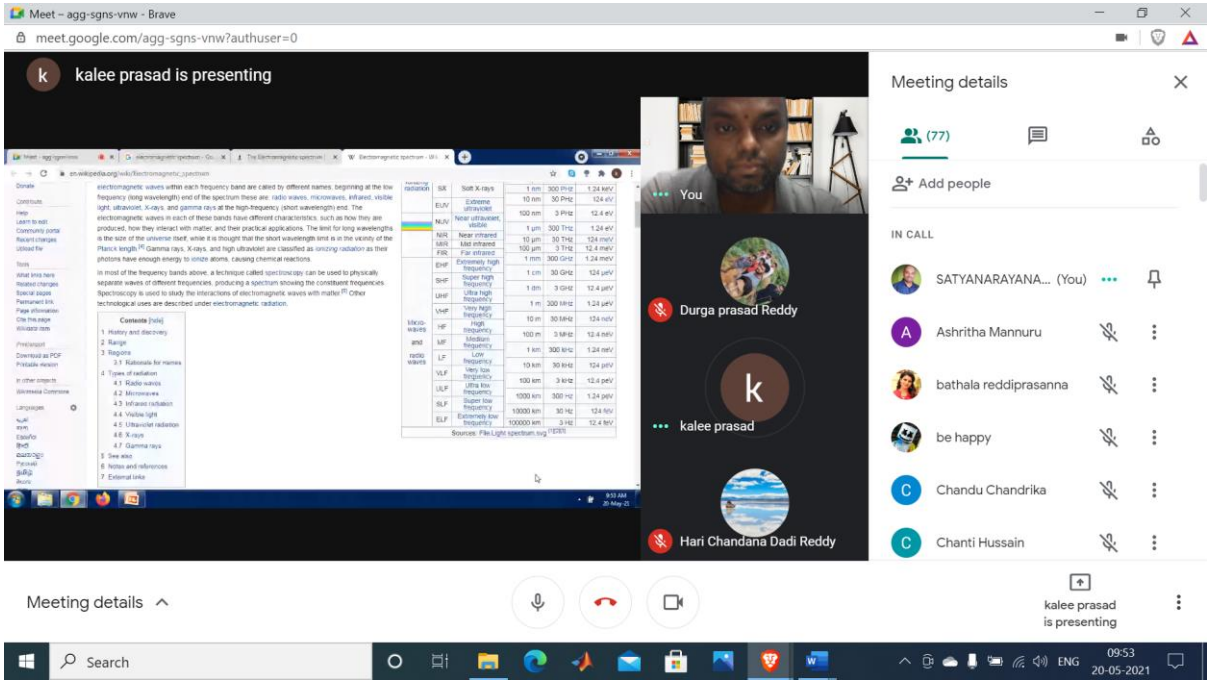
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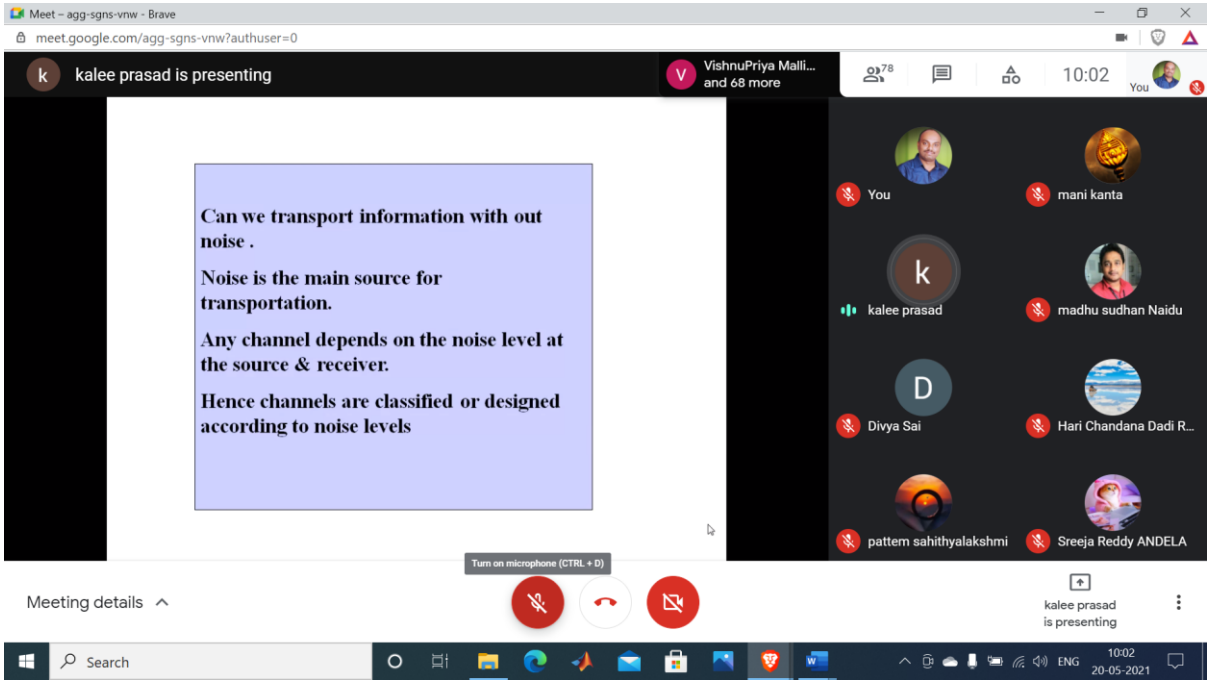

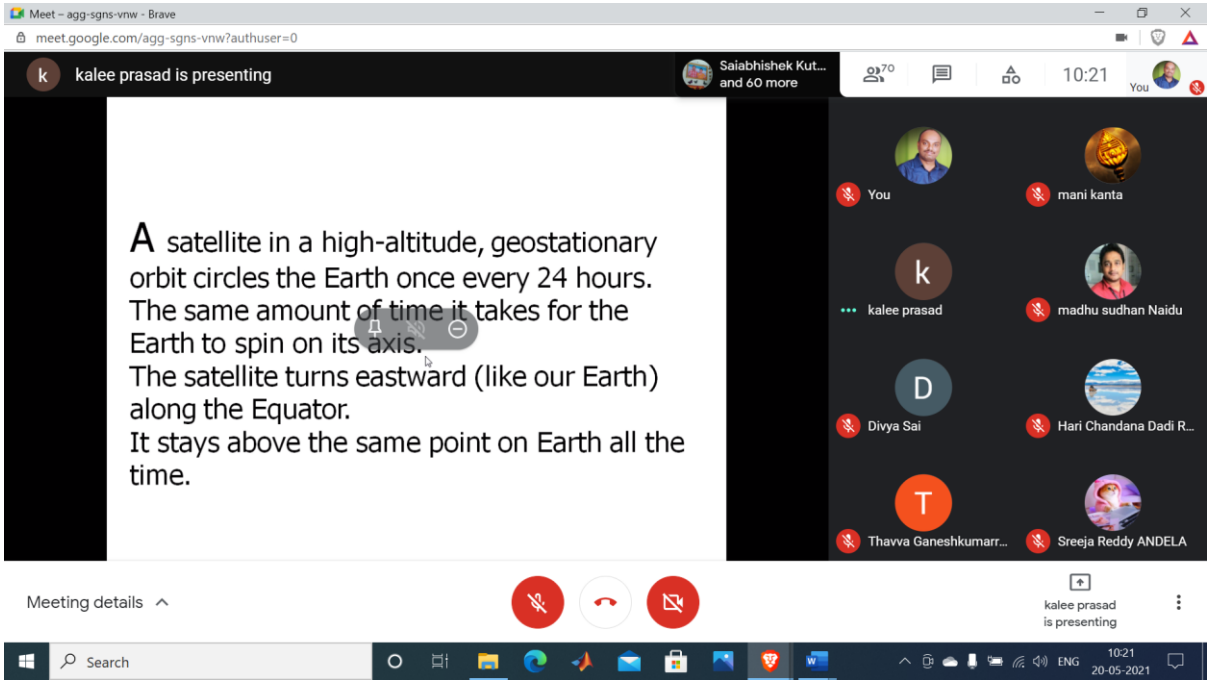

Coordinator
Dr. V. V. Satyanarayana T
Associate Professor