SRI SAIRAM ENGINEERING COLLEGE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report on Guest Lecture

Title :Design and Challenges of Microwave Antenna for IoT and 5G mm wave Applications

Resource Person

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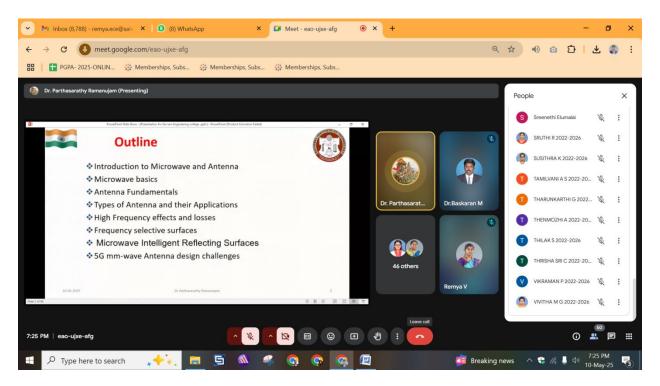
Event Coordinator

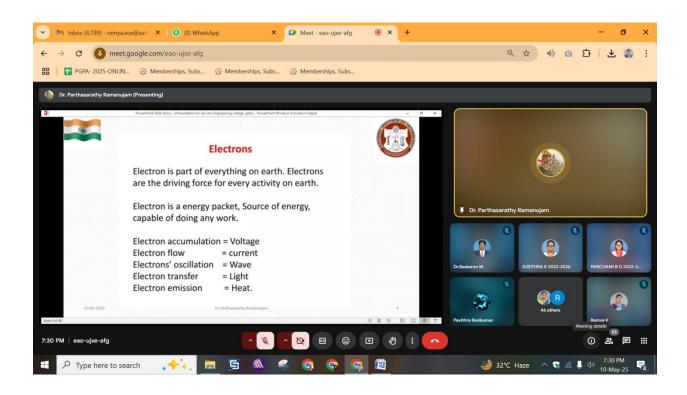
Ms Remya V /AP/ECE/SEC

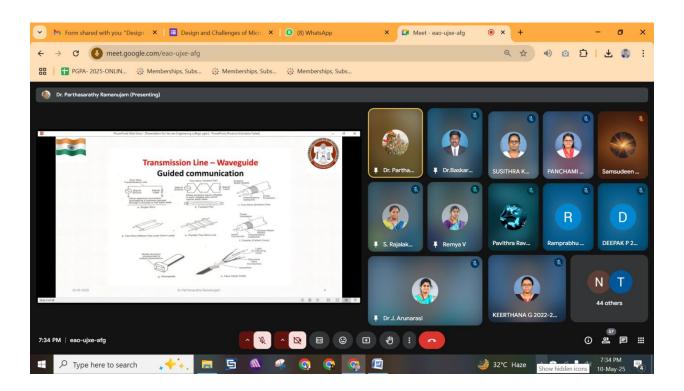
Date:10.05.2025

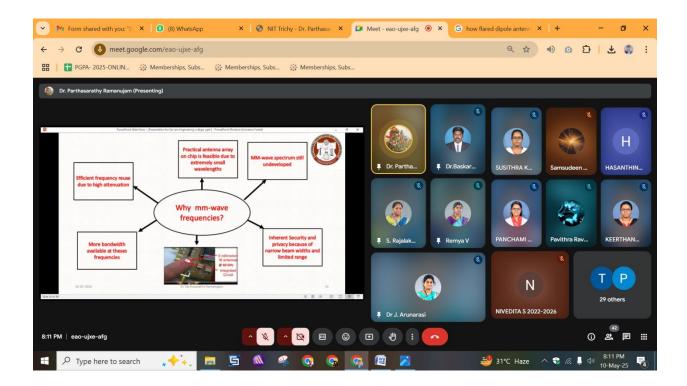
Venue: Online

Objective of the event: The event is intended to shed some light on recent advances in antenna design for new emerging applications and identify further research areas in this exciting field of communications technologies.. It highlights the significance of millimeter-wave technology in addressing the increasing demands on wireless networks, emphasizing the potential for achieving unprecedented data rates, ultra-low latency, and enhanced spectral efficiency. The literature review explores the current state of research on mmWave technology, antenna array technology, and potential implications for mobile broadband applications, including 5G and future 6G networks. It presents insights into novel antenna designs, such as a single layer MIMO antenna and a multiple input multiple output dielectric resonator antenna, both aimed at supporting a wide range of frequencies and applications in the mm-wave spectrum. It discusses the challenges associated with mmWave antenna arrays, offering valuable insights into the current state of research in this domain.









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