Karyashala

(A High-end Workshop: SERB initiative)
under the Accelerate Vigyan scheme
on
"Recent Trends and Future Prospects for Beyond 5G in RF, Microwave, and Millimeter Wave Technologies"
Organized by

Department of Electronics and Communication Engineering
National Institute of Technology Tiruchirappalli
23-29 July, 2023

Program Schedule

Date\Time	10:00 AM to 11:15 AM	11:30 AM to 12:45 PM	02:15 PM to 03:30 PM	03:45 PM to 05:00 PM
23/07/2023 (DAY 1)	**Inaugural Talk 1:** Sessions 1-2 **Topic**: Important Concepts of RF, Microwave, and Millimeter Wave Technologies for 5G and beyond **Expert: Prof. K P Ray** **Designation:** Director, School of Radar Technology, Head, EE Dept & Chief Public Information Officer (CPIO), DIAT Pune		**Inaugural Talk 2:** Sessions 3-4 **Topic:** Recent Advances and Future Challenges of MMW & THz Sensors and Systems for Defence Applications **Expert: Dr. Prashant Kumar Mishra** **Designation:** Scientist 'F', Programme AD, RCI, Defence Research and Development Organisation (DRDO), Hyderabad	
24/07/2023 (DAY 2)	**Invited Talk 1**: Sessions 5-6 **Topic:** Antennas and Space-Time Metasurfaces for 6G and Beyond **Expert: Dr. Debdeep Sarkar** **Designation:** Assistant Professor, Indian Institute of Science, Bangalore		**Invited Talk 2**: Sessions 7-8 **Topic:** Critical Perspectives in DRA for 5G applications **Expert: Dr. Biswajeet Mukherjee** **Designation:** Assistant Professor, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur	
25/07/2023 (DAY 3)	**Invited Talk 3**: Sessions 9-10 **Topic:** Electrically Small Antennas for Wireless Devices **Expert: Dr. G Shrikanth Reddy** **Designation:** Assistant Professor, Indian Institute of Technology Mandi		**Sessions 11-12** **Topic** Hands-on Session on Antenna Design	
26/07/2023 (DAY 4)	**Invited Talk 4**: Sessions 13-14 **Topic:** Frequency Selective Surface and its Applications in Radome Technology **Expert: Dr. Saptarshi Ghosh** **Designation:** Assistant Professor, Indian Institute of Technology Indore		**Invited Talk 5**: Sessions 15 **Topic:** Reflectarray Design for Electromagnetic Applications **Expert: Dr. Ravi Kumar Arya** **Designation:** Distinguished Professor, XSL, ZICUST China	**Session 16** **Topic** Hands-on Session on Microwave Passive Circuits Design
27/07/2023 (DAY 5)	**Invited Talk 6:** Session 17 **Topic:** Textile Antennas for RFID Applications **Expert: Dr. Rajesh Kumar Singh** **Designation:** Assistant Professor, DIAT Pune	**Invited Talk 7**: Session 18 **Topic:** Introduction to Machine learning for RF, Microwave and Millimeter Wave Technologies. **Expert: Dr. E. S. Gopi** **Designation:** Associate Professor, NIT Trichy	**Invited Talk 8:** Session 19 **Topic:** Massive MIMO for 5G Applications **Expert: Dr. Nagendra Kushwaha** **Designation:** Assistant Professor, IIIT Pune	**Session 20** **Topic** Prototyping and Testing in RF & Microwave
28/07/2023 (DAY 6)	**Invited Talk 9**: Sessions 21-22 **Topic:** Recent trends in the design and development of Dielectric Resonator Antennas **Expert: Dr. Pragati Patel** **Designation:** Assistant Professor, National Institute of Technology, Goa		**Invited Talk 10**: Sessions 23-24 **Topic:** Application of Metamaterials/Metasurfaces in Improving the Wireless Systems for Future Wireless Applications **Expert: Dr. Basudev Majumder** **Designation:** Associate Professor, Indian Institute of Space Science and Technology, Thiruvananthapuram	
29/07/2023 (DAY 7)	**Valedictory Talk 1:** Sessions 25-26 **Topic:** Radio Frequency Micromachined Devices and Circuits for Microwave to Sub-millimeter Wave Applications **Expert: Dr. Sukomal Dey** **Designation:** Associate Professor, Indian Institute of Technology Palakkad		**Valedictory Talk 2:** Sessions 27-28 **Topic:** Innovation and Prototyping in RF & Microwave **Expert: Dr. Hemant Kumar** **Designation:** Assistant Professor, National Institute of Technology, Tiruchirappalli	

12:45 PM to 02:15 PM (Lunch Break)

05:00 PM to 05:15 PM (High Tea)