



DEPARTMENT OF
**ELECTRONICS AND
COMMUNICATION
ENGINEERING**

in association with

**THE INSTITUTION OF ELECTRONICS &
TELECOMMUNICATION ENGINEERS (IETE)**



**ONE WEEK WORKSHOP ON
MATHWORKS WIRELESS SERIES:
TRANSFORMING THE NEXT GENERATION
OF WIRELESS COMMUNICATION**

07/03/2022 – 15/03/2022



Sri

SAIRAM

INSTITUTE OF TECHNOLOGY

An Autonomous Institution

West Tambaram, Chennai - 44

www.sairamit.edu.in



OBJECTIVES OF WORKSHOP

- Advanced Wireless Communications and Plots using R Programming
- Wireless Connectivity and Scenario Modelling
- Client Server Data Synchronization Using Unity
- Self-optimizing Networks for 5G application with CISCO systems using math works
- App based wireless waveform generation with full customization option
- Machine Learning for 5G Wireless Systems
- Coexistence modeling and performance assessment in presence of interfering signals
- Communication decoder design.using Log Likelihood Ratio(LLR) computations
- Incorporation of Neural network in various state of art technologies such as Centralized, Virtual and Open Radio Access Network (C-RAN, V-RAN and O-RAN).
- Advancements in Physical layer techniques for 5G communications



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RESOURCE PERSONS

**Day 1
07/03/2022**

Dr. Lakshmi Joshitha
Associate Professor/ECE
Sri Sai Ram Engineering College, Chennai

**Day 2
09/03/2022**

Mr. A. Pandian
Assistant Professor/ECE
SRM Valliammai Engineering College,
Chennai

**Day 3
10/03/2022**

Er. Uvaraj Natarajan
Sr. Application Engineer, MathWorks
Er. Tabrez Khan
Principal Application Engineer, MathWorks

**Day 4
11/03/2022**

Dr. Satya Kumar Vankayala
Staff Engineer, Samsung R&D Institute, India

**Day 5
14/03/2022**

Mrs. D. Roopa
Assistant Professor/CSE
Sri Sai Ram Institute of Technology, Chennai

**Day 6
15/03/2022**

Dr S. Chitra
Professor / ECE
Rajalakshmi Engineering College, Chennai



ORGANISING COMMITTEE

Chief Patron

Sri. Sai Prakash LeoMuthu
Chairman & CEO

Patron

Dr. K. Palanikumar, Principal

Convenor

Dr. G. Thamarai Selvi

Professor and HOD
Department of Electronics &
Communication Engineering

Co-ordinators

Dr. R. Prabha

Mr. Ramaprasad Maharana

Ms.V. Chitra