



**Indian Institute of Information  
Technology, Design and Manufacturing  
Kancheepuram**

**IIITDM-IEEE Student Branch Sponsored**



A 5-day **ONLINE WORKSHOP** on

**MATLAB Simulations of 5G Wireless Technologies**

**28<sup>th</sup> February 2022 – 4<sup>th</sup> March 2022**

**(4.00 P.M. to 7.00 P.M.)**

Indian Institute of Information Technology Design and Manufacturing Kancheepuram (IIITDM Kancheepuram) is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Education, Government of India to pursue design and manufacturing oriented engineering education and research. More details at [www.iiitdm.ac.in](http://www.iiitdm.ac.in)

### **About the FDP**

The aim of this workshop is to provide hands on training in MATLAB software to model and simulate the 5th Generation wireless technologies. 5G wireless technology is designed to provide multi-gigabit per second peak data speeds, ultra-low latency, greater reliability, huge network capacity, increased availability, and a more consistent user experience to a larger number of users. 5G allows for the creation of a new type of network that connects nearly everyone and everything, including machines, objects, and gadgets. The MATLAB based simulations helps us to understand the algorithm of wireless technologies, parameter understanding and the nature of the system.

### **Topics to be covered**

- Overview of Wireless Communication
- Cooperative Communication
- Spatial Modulation
- NOMA
- Network Protocols

### **Registration Fee**

- The timing of the workshop will be 4.00 P.M. to 7.00 P.M. through online GMeet.
- Faculty member, Research scholars and Industry participants may apply.
- Selection is on “first come first serve” basis.
- Course Registration fee is **Rs.679/-** for faculty members and students.
- A digital certificate will be issued to all registered participants.

**Resource Persons:** The resource persons are the experts from NIT's and IIIT's.

### **How to Apply?**

Participants may pay the registration fee using below account:

Account name: IIITDM-EDUCATIONAL EVENTS

Account no.: 35594334673

Bank : STATE BANK OF INDIA

Branch: KANDIGAI

IFSC: SBIN0018365

Participants are requested to fill the google form in the link given:

<https://forms.gle/rajq8fE3LetmLRmL9> .

For further details, please contact below address.

### **Coordinator**

**Dr.M.D.Selvaraj**

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