



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UCG-AUTONOMOUS)**



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Recognised as Scientific & Industrial Research Organization by DSIR of DST
Department of Electronics & Communication Engineering

Report on

**Three-days online workshop on “Dynamic System Modelling and Signal Processing
with MATLAB/ Simulink”**

20.04.2021 to 22.04.21



***Report Submitted by: Dr. Soumya Ranjan Mahapatro, Associate Professor, Dept. of ECE,
Department of Electronics and Communication Engineering***

No. of Participants – 60

Resource person: Mr. J prem Kumar, is presently working as a Product Manager for MathWorks Products in Capricot Technologies Private Limited and specializes in the field of Dynamic System Modelling, Embedded Systems, Robotics, Image Processing, Speech Processing, Deep Learning and Computer Vision. He has around 10 years of experience in Capricot Technologies. Prior to joining Capricot Technologies, he has experience in Semiconductor Manufacturing Industry. He holds a Master Degree in VLSI System Design.

The department of Electronics and Communication Engineering, MITS, Madanapalle organized a three days' online workshop program on **Dynamic System Modelling and Signal Processing with MATLAB/ Simulink during 20/Apr/2021 to 22/Apr/2021**. In this webinar **Mr. J prem Kumar** was enlighten with the fundamentals of MATLAB and Simulink. All session was very informative. More than one hundred students have registered for this workshop from different institutions across India.

Day 1 session: Dynamic System Modelling with Simulink 20/04/2021	
Topics	<ul style="list-style-type: none"> • Dynamic System Modelling with Simulink • Digital System Design and HDL Code Generation • Solvers and Auto Solver Feature • Hardware Interface with Simulink
Day 2 Session: MATLAB for Technical Computing 21/04/2021	
Topics	<ul style="list-style-type: none"> • Analyzing and Visualizing Data with MATLAB • Graphics • Algorithm Development with MATLAB • App Building • Hardware Interface with MATLAB
Day 3 session: Signal Processing with MATLAB & Simulink 22/04/2021	
Topics	<ul style="list-style-type: none"> • Generation of Signals • Filter Design and Analysis • Filter Implementation • HDL Code Generation

