Sanjay Ghodawat University, Kolhapur

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Department of Electrical Engineering
Workshop Report

Name of the Workshop: "MATLAB/ Simulink for Beginner's"

Number of Day: Two Days

Event Date: 24th-25th February 2018

Venue: Computer Lab, MBA Building

Objective: MATLAB Fundamentals is a Two-day workshop that provides a comprehensive introduction to the MATLAB technical computing environment. This course is intended for beginning users and those looking for a review. No prior programming experience or knowledge of MATLAB is assumed, and the course is structured to allow thorough assimilation of ideas through hands-on examples and exercises. MATLAB competency is developed in a natural way, with an emphasis on practical application. Themes of data analysis, visualization, modeling, & programming are explored throughout the workshop

Resource Person Details:

Er.Anandraj Desai & Er. Rajashekhar Savadi, Assistant Professor KLE Technological University BVB Campus, Hubli

Session Content:
Day 1: session 1
- Introduction and scope of MatLab software package
- Introduction to MatLab tool
- Acquaintance with user interface
- Scalar Operations and Frequently used commands

Day 1: session 2
- Matrix Operations
- Logical Operations
- Other Operations
- Loops and Conditional statements

Day 1: session 3
- Plotting functions and data visualization
- Exercise
- Assignment

Day 1: session 4

- Introduction to GUI
- GUI- addition of two numbers
- GUI- addition of two waveforms
- GUI-Simple calculator
- GUI-one input and one output operation like factorial of a number

Day 2: session 1

- Addition of two numbers using Simulink
- Solving algebraic equation using Simulink
- Algebraic error
- Significance of Mathematical modelling
- Modelling and Analysis of 1st order system using Simulink

Day 2: session 2

- Modelling and Analysis of 2nd order system using simulink
- Encoder
- Decoder
- MUX

Day 2: session 3

- MuPAD live editor
- Interfacing Hardware programming

Workshop Summary:

Inaugurated at the hands of: Dr. Melinamath Bhuvaneshwari C & Mrs.S.S.Kumbar Er.Anandraj Desai & Er. Rajashekhar Savadi, Sessions are conducted on various topic on MATLAB includes Basics of programing language, Simulink and interfacing with hardware. Valedictory at the hands of Honorable Vice chancellor. Dr.V.A.Raikar Kolhapur, Director Dr.V. V. Kulkarni

Target Participants: First and Second year students(50 Nos)

Photo Gallery

Workshop Coordinator: Mr. Devendra Gowda ,Assistant Professor
Department of Electrical Engineering