

Open Course Title: Simulation of Real-time Problems using MATLAB and SCILAB

Target Students from Branches: ECE/TCE/EEE/CSE/Mech/Civil/MCA

The total duration of the course: 25 Hours.

No. of Lecture hours: 12 Hours

No. of hands-on / Practical: 13 Hours

Abstract

The open course will help the students for their projects in their higher semester. The tools which we are demonstrating are MATLAB and SCILAB. The features of MATLAB and SCILAB will be demonstrated by taking problems in different fields including digital image processing and networks. The students can develop the project based on the demonstration to represent the real-world problems. This open short term course will enable the learners to achieve the following course outcomes.

Open Course Details

CO1: Apply the features of MATLAB/ SCILAB tools for the given problem in the area of image processing and Computer Networking.

CO2: Analysing the data set through the representation of different graphs.

CO3: Design system models for the given problem with specifications and evaluate the same with tested data.

Schedule

| Day 1:12/02/2019 | | | |
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| Time | Topics | Resource Person Details | CO-PO Mapping |
| 9.30-12.30 p.m | Basics of MATLAB | Mrs. Drakshaveni G, Assistant Professor, dept. of MCA, Ph.D Research Scholar | CO1,PO1,PO3,PO4,PO5,PO8 |
| 1.30 - 4.00 pm | Hands-on Fundamentals | Mrs. Drakshaveni G, Assistant Professor, Dept. of MCA, Ph.D. Research Scholar | CO1,PO1,PO3,PO4,PO5,PO8 |
| Day 2:13/02/2019 | | | |
| Time | Topics | Resource Person Details | CO-PO Mapping |
| 9.30-12.30 p.m. | Image Processing algorithms | Mrs. Drakshaveni G, Assistant Professor, Dept. of MCA, Ph.D. Research Scholar | CO2, PO1,PO3,PO4,PO5 |
| 1.30 - 4.00 pm | Introduction to SCILAB | Mrs. Reshma C R Assistant Professor, Dept. of MCA, Ph.D. | CO1,PO1,PO3,PO4,PO5,PO8 |

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| | | Research Scholar | |
| Day 3:14/02/2019 | | | |
| Time | Topics | Resource Person Details | CO-PO Mapping |
| 9.30-12.30 p.m | Problem Solving using SCILAB | Mrs. Reshma C R Assistant Professor, Dept. of MCA, Ph.D. Research Scholar | CO2, PO1,PO3,PO4,PO5 |
| 1.30 - 4.00 p.m | Hands-on Session | Mrs. Reshma C R Assistant Professor, Dept. of MCA, Ph.D. Research Scholar | CO2, PO1,PO3,PO4,PO5 |
| Day 4:15/02/2019 | | | |
| Time | Topics | Resource Person Details | CO-PO Mapping |
| 9.30-12.30 p.m | Implementation of projects | Industry Expert | CO1,CO2,PO1,PO3,PO4,PO5,PO8 |
| 1.30 - 4.00 pm | Hands-on Session | Industry Expert | CO1,CO2,PO1,PO3,PO4,PO5,PO8 |
| Day 5:16/02/2019 | | | |
| Time | Topics | Resource Person Details | CO-PO Mapping |
| 9.30-11.00 p.m | Hands-on Session | Industry Expert | CO1,CO2,PO1,PO3,PO4,PO5,PO8 |
| 11.00-12.00p.m | Assessment, Feedback | Coordinators | - |