

Objectives and Course Content of Short Term Course

Operational Plan No.	ICT-62
Name of the Course	Image processing and Signal Processing using Scilab (Through ICT)
Objectives of Course	<ul style="list-style-type: none"> • To provide introduction to Scilab, Scilab commands and its applications • To introduce and various Toolboxes • To introduce the Simulation using XCOS • To provide the principles of Image Processing and Applications • To Develop some applications with Scilab Programming in various Engineering Applications • To acquire knowledge about OpenCV • To implement Face and Eye Detection Techniques • To implement Soft Computing and Nature Inspired Algorithms
Course Content	<ul style="list-style-type: none"> • SCILAB Introduction and Vector Operations, Variables and Matrix Operations • Conditional Branching, Iterations and Loops Scripts Functions • Toolboxes and Scilab Applications using Garuda Cloud • 2D, 3D Graphs and Advanced Plotting Commands • Image Processing Toolbox and Implementation of Face and Eye Detection Techniques • Introduction to OpenCV • Curve Fitting, Polynomials and Differential Equations • Simulation using XCOS <p>Numerical Optimization Techniques and Artificial Intelligence</p>
Name of Course Coordinator with E-mail ID & Contact Number	<p>Dr. Maitreyee Dutta Email: d_maitreyee@yahoo.co.in (M) 9815612274</p>