Annexure -II

Course Curriculum

1: Matlab& Simulink

Duration: 80 Hours

Objective

This course aims to provide students with an in depth hands on demonstration and practical sessions, within a stimulating environment. This lab will introduce you to MATLAB as a tool for designing and evaluating digital filters, prior to implementing them in hardware.

Course Description

Introduction to MATLAB Introduction to MATLAB History Toolbox **Command Window** Script .m-file Function MATLAB Documentation Uses of MATLAB **Basic Mathematics Using MATLAB** Data types Matrix Differentiation Integration Logic Operations Using MATLAB Conditional Operators For loop While loop While loop Graph Plotting of linear variables Plotting of signals **Image Processing** Image Processing Toolbox Types of Image **Image Resizing** Color Filtering Image Restoration MATLABSimulink Mini project

Learning Outcomes

After successful completion of the module, the students shall be able to:

QUALIFICATION FILE: Certificate course in DSP Using MATLAB

• Implement DSP algorithms using MATLAB.

Text Books:

- 1. DSP using MATLAB. SanjitK.Mitra
- 2. Digital Signal Processing, Third Edition, Sanjit K. Mitra, Tata McGRWA Hill