

FDP-231	MATLAB and LabVIEW Programming (2 weeks)	19.02.2018 to 02.03.2018
<p>OBJECTIVES:</p> <ul style="list-style-type: none"> ➤ Create Scripts using MATLAB ➤ Familiarize with the signal, image processing and communication tool boxes ➤ Simulate the analog and digital circuits using Simulink ➤ Construct simple VI and Sub VI ➤ Develop a VI applications using data acquisition card. <p>PARTICIPANTS:</p> <p>Electrical / Electronics / Communication / Biomedical / Instrumentation teachers familiar with basic programming concepts.</p> <p>INPUT:</p> <p>MATLAB Basics - Working with MATLAB variables – M-Files - Basic statistics and data analysis - Data types - Data input and output - Programming – Plotting and visualization - Toolboxes – Signal, Image Processing and Communication, Excel Link, GUI – Simulink, Simpower Systems and Simscape.</p> <p>LabVIEW Programming concepts - LabVIEW Environment – While, For, case, Structures – Graph, Chart - Timing VIs - Programming VI & Functions - SubVI - Clusters- Strings – File I/O –Local variable declaration - Data acquisition using USB 6008 and myRIO.</p> <p>PROCESS:</p> <ul style="list-style-type: none"> ➤ Lecture ➤ Lab Sessions <p>OUTPUT:</p> <p>Participants will be able to use MATLAB for</p> <ul style="list-style-type: none"> - basic applications - signal, image processing applications - simulating the circuits using Simulink <p>RESOURCE PERSONS:</p> <ul style="list-style-type: none"> ➤ Dr. P. Malliga ➤ Dr. V. Shanmuganeethi ➤ Dr. G.A. Rathy ➤ Guest faculty 		
Coordinator	Venue	Last date for receipt of applications
Dr. P. Sivasankar	NITTTR , Chennai	15 days prior to the start of the programme