

FDP-63	APPLICATION OF MyRIO AND MULTISIM (2 weeks)	06.08.2018 to 18.08.2018
<p>OBJECTIVES:</p> <ul style="list-style-type: none"> ➤ Write basic VI programs ➤ Understand the features of my RIO ➤ Interfacing sensors with my RIO ➤ Use the common LabVIEW functions to build a simple DAQ applications. ➤ Draw the electronic circuit using Multisim ➤ Simulate Electronic Circuits using Multisim ➤ Design PCB Layout ➤ Interface Multisim with LabVIEW <p>PARTICIPANTS:</p> <p>Teachers of Instrumentation, Electrical, Electronics and Communication Engineering</p> <p>INPUT:</p> <p>LabVIEW Programming concepts – Structures – Graph, Chart - Timing VIs - Programming VI & Functions - SubVI - Clusters- Strings – File I/O – Local Variable declaration - Data acquisition - my RIO – Interfacing with sensors like PIR –Opto Interrupter-Ultrasonic & IR distance measurement -Hall sensor-LM 35 temperature sensor-joystick-OLED-Obstacle detector, RC servo, DC motor speed measurement.</p> <p>Symbols – Library of components - Schematics – Component Editor – Simulation – DC bias, DC and AC sweep analysis – Transient Analysis – Parametric Analysis - Simulation of Digital and Analog Circuits – PCB Design - Layout - Net List – Layers – Routing – Electrical Rule Check (ERC) – Single side and double side PCB layout – Interfacing Multisim with LabVIEW - Bill of Materials – Technical Documentation.</p> <p>PROCESS:</p> <ul style="list-style-type: none"> ➤ Lecture ➤ Demonstration ➤ Laboratory sessions ➤ Industrial Visits <p>OUTPUT:</p> <p>Participants will be able to</p> <ul style="list-style-type: none"> - use LabVIEW for sensor based applications. - handle electronic circuits course and PCB design using Multisim software. <p>RESOURCE PERSONS:</p> <ul style="list-style-type: none"> ➤ Dr. G. Kulanthaivel ➤ Dr. G.A. Rathy ➤ Guest faculty 		
COORDINATOR	VENUE	LAST DATE FOR RECEIPT OF APPLICATIONS
Dr. G.A. Rathy	NITTTR , Chennai	15 days prior to the start of the programme