

**ONE WEEK FACULTY DEVELOPMENT PROGRAM ON
EMBEDDED SYSTEMS and IoT**

Schedule:


Day-wise	Content	Resource Persons
Day 1 01.07.2024	<ul style="list-style-type: none"> • Study and Install IDE of Arduino and different types of Arduino 	Dr.P.Venu Madhav Asst. Prof. ECE
	<ul style="list-style-type: none"> • Basic LED functionality Using Arduino 	Dr.P.Venu Madhav Asst. Prof. ECE & Dr.B.Surya Prasada Rao Assoc.Prof. ECE
	<ul style="list-style-type: none"> • Configuring and controlling of DC motor 	Dr.B.Surya Prasada Rao Assoc.Prof. ECE & Dr.P.Venu Madhav Asst. Prof. ECE
Day 2 02.07.2024	<ul style="list-style-type: none"> • Serial Communication device control 	Dr. Haji Habibulla MD Assoc.Prof. ECE & Mr.K.Phani Rama Krishna Asst. Prof. ECE
	<ul style="list-style-type: none"> • Calculate temperature using temperature sensor Using Arduino 	Mr.K.Phani Rama Krishna Asst. Prof. ECE & Dr. Haji Habibulla MD Assoc.Prof. ECE
	<ul style="list-style-type: none"> • Measure Analog signal from Temperature Sensor 	Mr.K.Phani Rama Krishna Asst. Prof. ECE & Dr. Haji Habibulla MD Assoc.Prof. ECE
Day 3 03.07.2024	<ul style="list-style-type: none"> • Wireless module interface-Bluetooth 	Ms.D.Swathi, Asst. Prof. ECE & Mrs.Ch.Sri Lakshmi Asst. Prof. ECE
	<ul style="list-style-type: none"> • Generate PWM output 	Mrs.Ch.Sri Lakshmi Asst. Prof. ECE & Dr.V.S.D.Rekha Asst. Prof. ECE

Day 4 04.07.2024	<ul style="list-style-type: none"> • Drive Stepper motor using Analog GPIOs 	Mrs.B.V.Subbayamma Asst. Prof. ECE & Mrs.D.Hareesha Asst. Prof. ECE
	<ul style="list-style-type: none"> • Drive a given value on a 8 bit DAC consisting of SPI 	Mrs.D.Hareesha Asst. Prof. ECE & Mrs.B.V.Subbayamma Asst. Prof. ECE
Day 5 05.07.2024	<ul style="list-style-type: none"> • Calculate the distance using distance sensor Using Arduino 	Mrs.Ch.Sri Lakshmi Asst. Prof. ECE & Dr.J.Ravindra Babu Assoc.Prof.ECE
	<ul style="list-style-type: none"> • Calculate the distance using distance sensor Using Node MCU 	Dr.J.Ravindra Babu Assoc.Prof. ECE & Ms.D.Swathi, Asst. Prof. ECE
Day 6 06.07.2024	<ul style="list-style-type: none"> • Basic LED functionality Using Node MCU 	Dr.V.S.D.Rekha Asst. Prof. ECE & Ms.D.Swathi, Asst. Prof. ECE

Technical Supporting staff:

Mr. G Ram Babu, Embedded Engineer

Mr. M Phani Kumar, Technician


(Dr. C Subba Rao)
Prof. & HOD, ECE