VSR GOVERNMENT DEGREE AND PG COLLEGE MOVVA

DEPARTMENT OF ELECTRONICS

	I SEMESTER
	CIRCUIT THEORY AND ELECTRONIC DEVICES
CO1	Apply concept of electric network topology,nodes,branches,loops to solve circuit problems including the use of computer simulation.
CO2	Apply time and frequency concept of analysis
CO3	Synthesize the network using passive elements
CO4	Known about amplifier circuits,switching circuits and oscilator circuits their design and use in electronics
CO5	Design and construction of a power supply
	II SEMESTER
	DIGITAL ELECTRONICS
CO1	Develop a digital logic and apply it to solve real life problems
CO2	Analyze design and implement combinational logic circuits
CO3	Classify different semiconductors memories
CO4	Analyze,design and implement sequential logic circuits
CO5	Simulate and implement combinational and sequential logic circuits using VHDL
	III SEMESTER
	ANALOG CIRCUITS AND COMMUNICATION
CO1	Understand the fundamental and areas of applications for the integrated circuits
CO2	Analyze importance types of integrated circuits
CO3	Demonstrate the ability to design practical circuit that performs the desired operation
CO4	Select the appropriate integrated circuit modules to build a given application
CO5	Use of different modulation and demodulation techniques used in analog communication
	IV SEMESTER
	MICROPROCESSOR SYSTEM
CO1	The student can gain good knowledge on microprocessor and implement in practical application
CO2	Design system using memory chips and peripheral chips for 16 bit 8086 microprocessor
CO3	Students will learn how to write programs for microprocessor using assembly language or higher level languages.
CO4	Understand and device techniques for faster execution of instruction,improve speed of operation and enhance performance of microprocessor
CO5	Understand multi core processor and its advantage
	MICRO CONTROLLER AND INTERFACING
CO1	The student can gain good knowledge on microcontrollers and implement in practical application
CO2	Learn interfacing of microcontroller
CO3	Get familiar with real time operating system

CO4	Students will acquire programming skills Specific to microcontroller, using programing language like C or Assembly language
CO5	Students will be able to design and implement Embedded systems using microcontroller
	VI SEMESTER
	INDUSTRIAL ELECTRONICS
CO1	Identify various facilities required to setup a basic Instrumentation Laboratary.
CO2	Acquire a critical knowledge of various Electrical Instruments used in the Laboratory.
CO3	Demonstrate Skills in using Instruments like Rectifier, Multipliers,Power supplies,Voltage Regulators etc. through hands on experience.
CO4	Understand the Principle and Operation of different Electronic Heating devices.
CO5	Students should develope skills in diagnosing,finding faults and repairing industrial electronics systems to ensure smooth operation and minimize production downtime.
	ELECTRONIC INSTRUMENTATION
CO1	Identify various facilities required to setup a basic Instrumentation Laboratary.
CO2	Acquire a critical knowledge of various Electrical Instruments used in the laboratory.
CO3	Demonstrate skills of using Instruments like CRO, Function Generation, Multimeter etc. through hands on experience.
CO4	Understand the principle and Operation of different display devices used in the display systems and different transducers
CO5	Comprehend the applications of various biomedical instruments in daily life like B.P. meter, ECG,Puise oxymeter eyc. and know the handing procedures with safety and security.
CO5	plan and organize tour operations efficiently
	Solar Energy and Applications
CO1	1. Understand Sun structure, forms of energy coming from the Sun and its measurement.
CO2	2. Acquire a critical knowledge on the working of thermal and photovoltaic collectors.
CO3	3. To learn skills related to callus culture through hands on experience
CO4	4.Understand testing procedures and fault analysis of thermal collectors and PV modules
CO5	5.Applications of thermal collectors and PV modules.