S.V.ARTS COLLEGE: TTDs :TIRUPATI
DEPARTMENT OF ELECTRONICS

COURSE OUTCOMES

SEMESTER-I CIRCUIT THEORY AND ELECTRONIC DEVICES

- ✓ Apply concepts of electric network topology, nodes, branches, loops to solve circuit problems including the use of computer simulation.
- ✓ Apply time and frequency concepts of analysis.
- ✓ Synthesize the network using passive elements.
- ✓ Design and construction of a power supply

SEMESTER – II : DIGITAL ELECTRONICS

- ✓ Develop a digital logic and apply it to solve real life problems.
- ✓ Analyze, design and implement combinational logic circuits.
- ✓ Classify different semiconductor memories.
- ✓ Analyze, design and implement sequential logic circuits.

SEMESTER – III Digital Electronics

- ✓ Well versed with various number systems and code conversions for design implementation.
- ✓ Designing of digital logic circuits to solve real life problems.
- ✓ Analyze and implement the design of combinational and sequential logic circuits.
- ✓ Study and analyze the different types of Memory Devices.

SEMESTER – IV ANALOG AND DIGITAL IC-APPLICTIONS

- ✓ Understand the fundamentals of Linear Integrated Circuits and its Applications.
- ✓ Practical implementation of various desired operations with OpAmps.
- ✓ Design implementation of code converters and counters.
- ✓ Study various types of Data Converters.
- ✓ Study and implementation of digital system interfacing

SEMESTER – V PAPER 5 – MICROPROCESSORS (INTEL 8085)

- ✓ The student can gain good knowledge on structure of 8-bit Microprocessors.
- ✓ Practical knowledge of 8-bit Microprocessor programming aspects.
- ✓ Study and practical implementation of interfacing of peripherals with 8-bit Microprocessor.
- ✓ Students can adopt existing code for development of simple real life applications.

SEMESTER – V PAPER 6 – ELCTRONIC COMMUNICATIONS

- ✓ Understand the basic concepts of Modulation and Demodulation techniques involved in analog communications.
- ✓ Students can gain practical knowledge of simulation of various Digital Modulation techniques.
- ✓ Analyze Transmitters and Receivers circuits.

VI SEMESTER BASE PAPER – VII (A) MICRO CONTROLLER AND INTERFACING

- ✓ The student can gain the knowledge on microcontroller and implement in practical purposes.
- ✓ Students can able to write programs for simple I/O, Delay generation and standard interfaces.
- ✓ Students can adopt the existing code for development of simple real world applications for student activities.

VI SEMESTER CLUSTER – 1 PAPER – VIII (A1) EMBEDDED SYSTEMS DESIGN

- ✓ The student will be able to understand the concept of designing Embedded system technology &their applications.
- ✓ Get familiarized with advanced communication principles to develop embedded solutions.
- ✓ To understand the key concepts of embedded systems such as I/O, Timers, Interrupts with peripheral devices.
- ✓ The students can understand the role of embedded systems in the Industry.

VI SEMESTER CLUSTER – 1 PAPER – VIII (A2) ELECTRONIC INSTRUMENTATION

- ✓ Students can evaluate basic concepts of measurement systems
- ✓ Students can design a system, component of process to meet desire needs in electrical engineering.
- ✓ To identify the various Parameters that are measurable electronic in electronic instrumentation.

VI SEMESTER CLUSTER – 1 PAPER – VIII (A3) POWER ELECTRONICS

- ✓ Acquire knowledge about fundamentals concepts and techniques used in power electronics.
- ✓ Ability to analyze various single phase and three phase power converter circuits and understand their applications.
- ✓ Foster ability to understand the use of power converters in commercial and industrial applications.