

DEPARTMENT OF ELECTRONICS

Program Outcomes :

- To identify, design and construct application based projects.
- To use current techniques, skills and modern scientific tools necessary for undertaking application based projects.
- To demonstrate skills to use modern tools for PCB designing, circuit analysis and simulation software.
- To implement the knowledge of latest technology subjects as per the need of today's industry.
- To demonstrate a commitment towards quality, punctuality and continuous improvement to excel in employment, self-employment or higher education.
- To work in team and communicate effectively through written, verbal and visual methods.
- To recognize environmental, industrial, social issues and understand ethics and professionalism.

Course Outcomes :

| SEMESTER I | |
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| Course | Outcomes |
| P-I : Circuit Theory and Electronic Devices | <ul style="list-style-type: none">✓ To apply concepts of electric network topology, nodes, branches, loops to solve circuit problems including the use of computer simulation.✓ To apply time and frequency concepts of analysis.✓ To synthesize the network using passive elements.✓ To know about amplifier circuits, switching circuits and oscillator circuits, their design and use in electronics.✓ To design and construct a power supply. |
| SEMESTER II | |
| Course | Outcomes |
| P-II : Digital Electronics | <ul style="list-style-type: none">✓ To develop a digital logic and apply it to solve real life problems.✓ To analyze, design and implement combinational logic circuits.✓ To classify different semiconductor memories.✓ To analyze, design and implement sequential logic circuits.✓ To simulate and implement combinational and sequential logic circuits using VHDL. |

| SEMESTER III | |
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| Course | Outcomes |
| P-III : Analog Circuits and Communication | <ul style="list-style-type: none"> ✓ To understand the fundamentals and areas of applications for the integrated circuits. ✓ To analyze important types of integrated circuits. ✓ To demonstrate the ability to design practical circuits that perform the desired operation. ✓ To select the appropriate integrated circuit modules to build a given application. ✓ To use different modulation and demodulation techniques in analog communication. ✓ To identify and solve basic communication problems. ✓ To analyze transmitters and receiver circuits. |
| SEMESTER IV | |
| Course | Outcomes |
| P-IV : Microprocessor Systems | <ul style="list-style-type: none"> ✓ To gain good knowledge on microprocessor and implement in practical applications. ✓ To design system using memory chips and peripheral chips for 16 bit 8086 microprocessor. ✓ To understand and devise techniques for faster execution of instructions, improve speed of operations and enhance performance of microprocessors. ✓ To understand multi core processor and its advantages. |
| P-V : Microcontroller and Interfacing | <ul style="list-style-type: none"> ✓ To gain good knowledge on microcontrollers and implement in practical applications. ✓ To learn interfacing of Microcontroller. ✓ To get familiar with real time operating system. |