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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | ANALOG AND DIGITAL ELECTRONICS | * Students get knowledge of how our world is powered through electrical means. * Electronic circuits work to process and transmit electrical current information in our computers, TVs,­ ­radios, and mobile devices. Integrated circuits help manage power in our mobile devices. These are known as power management integrated circuits (PMICs) and are used mainly in mobile devices to lessen the required amount of space. * Learning about circuits will help students to understand how to analyze circuits that use direct current (DC) or alternating current (AC) voltage. You will learn about open, closed, and short circuits. Anyone who wants to become an electrician, or work in a public utility for electricity will need to know the foundational elements of circuits, resistors, capacitors, and inductors and how they work. | 1. Chalk and   Talk method   1. PPT | * Business   Ethics | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO5:Modern Tool Usage  PO12: Life-long  Learning. |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | CO1: Explain various analog circuits with their applications and understand the fundamental knowledge between analog and digital signal.  CO2:Understand and Describe different types of combinational logic circuits by using abridge mapping techniques.  CO3:Understand and Design combinational logic circuits with limited Gate fan-in, Operation of Decoders, Encoders, Multiplexers and PLD’s.  CO4:Illustrate combinational logic circuits using VHDL simulation and implement the working of Sequential Circuit.  CO5:Understand and Design different data processing circuits using flip flops. |
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