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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 method1. PPT
 | * Business

 Ethics | PO1:Engineering KnowledgePO2:Problem AnalysisPO3:Design/Development Of SolutionsPO4:Conduct Investigations Of Complex ProblemsPO6: Engineer and SocietyPO7:Environment And Sustainability PO12: Life-longLearning. |  |
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|  |  | PSO1:Professional SkillsPSO2:Problem Solving Skill |
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|  |  | CO1:Explain the operation of JFETs and MOSFETs, Operational Amplifier circuits and their applications CO2:Describe and interpret different types of combinational logic circuits by using abridge mapping techniques Viz., Karnaugh Maps, Quine-McClusky method and develop program using HDL to simulate the behaviour of various logical circuits.CO3:Design and Demonstrate the Operation of Decoders, Encoders, Multiplexers, Adders and Subtractors and develop program using HDL to simulate the behaviour of various logical circuits. in the domain of economy, performance and efficiency CO4:Design and implement the working of Latches, Flip-Flops, registers, counters and develop program using HDL to simulate the behaviour of various logical circuits within the realm of economic, performance, efficiency, user friendly and environmental constraints CO5:Demonstrate the fundamental knowledge of analog and digital electronics to get different types of analog to digitalized signal transformation and vice-versa |
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