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| **Sl.No.** | **Syllabus** | **Curriculum** | **Deployment Strategy and Tool** | **Cross-cutting issues integrated** | **PO, PSO and CO** |
| 1. | Power Electronic and Instrumentation | * Student will know the operation of power semiconductor devices.
* Student will know the working principle of controlled rectifier for R and RL load
* Student will know the working principle of dc chopper and dc to ac converters (inverter).
* Student will learn the working principle of instruments like DVM, Multimeter, frequency meter.
* Student will know the knowledge about transducers, PLC and relay.
 | 1. Chalk and Talk method
2. PPT
 | * Environment and sustainability.
 | * PO1,PO3, PO5
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| * PSO1,PSO2,PSO3
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| * CO1: Student will be able to select appropriate power semiconductor devices for given power circuits.
* CO2: Student will be able to implement controlled rectifier for R and RL load
* CO3: Student will be able to implement dc chopper and dc to ac converters (inverter).
* CO4: Student will be able to implement dc chopper and dc to ac converters (inverter).
* CO5: Student will be able to implement measuring instruments like DVM, Multi meter, frequency meter.
* CO6: Student will be able to implement simple transducers and PLC
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