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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | MICROPROCESSORS AND MICROCONTROLLERS | * Students will learn that it has very wide applications in the field of instrumentation in systems like in the control panel of press printing machines, digital kiosks, credit card processing, security systems etc. It is also used in medical instruments like ECG (electronic cardiogram) etc making the device smart. * Students will learn that microcontrollers are light sensing & controlling devices. Temperature sensing and controlling devices. Fire detection & safety devices. Industrial instrumentation devices. Process control devices. * The microprocessor has a limitation on the size of data. Most microprocessors do not support floating point operations. The main disadvantage is it's overheating physically. It should not contact with the other external devices | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO3:Design/Development Of Solutions  PO4:Conduct Investigations Of Complex Problems  PO5:Modern Tool Usage  PO9:INDIVIDUAL AND TEAM WORK  PO12: Life-long  Learning. |  |
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|  |  | PSO1:Professional Skills  PSO2:Problem Solving Skill |
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|  |  | CO1:Understand 8086 Architecture with addressing modes, Instruction formats, directives and different types of 8086 instructions.  CO2:Understand 8086 simple programming in assembly language, Design and Apply the Assembly Language Programming for various applications using interrupts.  Co3:Understand and Design Signed Numbers operations, String operations in 8086 Assembly language, Memory Interfacing and I/O interfacing. Apply I/O interfacing for various applications using 8086 assembly language programming.  CO4:Understand ARM7 Microcontroller, Design and Apply ARM7 microcontroller programming for various applications.  CO5:Understand Arm7 instruction set and Apply Arm7 assembly language programming for various applications. |
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