| Course Type | Course Code | Name of the Course | L | T | P | Credits |
|---|---|---|---|---|---|---|
| DP | EEC375 | Microprocessor and Microcontroller Lab. | 0 | 0 | 2 | 2 |

| Course Objective |
|---|
| The objective of this lab is to introduce undergraduate students to the basic practical aspects microprocessor and microcontrollers. |
| **Learning Outcomes** |
| Upon successful completion of this course, students will develop:<br>● an ability to identify pin configurations of 8085 and 8086 microprocessor and micro controllers.<br>● an idea about the working of 8085 microprocessor and micro controllers. |

| Unit No. | Topics to be Covered | Laboratory Hours | Learning Outcome |
|---|---|---|---|
| 1 | Experiments on operations with 8085 microprocessor | 2x2 | Students will learn assembly language programming with 8085 microprocessor |
| 2 | Experiments on operations with 8086 microprocessor | 2x2 | Students will learn assembly language programming with 8086 microprocessor |
| 3 | Experiments on operations with 8051 microcontroller | 1x2 | Students will learn operations with 8051 microcontroller |
| 4 | Experiments on control circuits | 3x2 | Students will learn working of different control circuits using microprocessors/microcontrollers |
| 5 | Experiments on 8085 in simulator mode and 8086 in debugging mode | 2x2 | Students will learn different working modes 8085 and 8086 microprocessors. |

**Text Books**

1. D.V. Hall , Microprocessors and its Interfacing, Third Edition, 2017
2. R.S. Ganorkar, Microprocessor Architecture, Programming, and Applications with the 8085, Sixth Edition, 2013

**Reference Books**

1. A. K. Ray and K. M. Bhurchandi, Advance Microprocessors and Peripherals, Third Edition, 2017.