GRD | INSTITUTE OF MANAGEMENT & TECHNOLOGY

INNOVATION • MOTIVATION • TRANSFORMATION

MICROPROCESSOR AND INTERFACING LAB (BECP-501)

Course Outcomes:

1. Apply the fundamentals of assembly level programming of microprocessors and microcontrollers.

2. Build a program on a microprocessor and microcontroller using their respective instruction sets.

3. Summarize the concepts of Assembly level language programming and its applications on real projects.

4. Analyze abstract problems and apply a combination of hardware and software to address the problem.

5. Contrast how different I/O devices can be interfaced to processor and will explore several techniques of interfacing.

6. Experiment with standard microprocessor interfaces including GPIO, ports, digital-to-analog converters and analog-to-digital converters etc.

7. Make use of standard test and measurement equipment to evaluate digital interfaces.

List of Programs:

1. To study 8085 microprocessor System.

2. To study 8086 microprocessor System.

3. To perform addition of two 8 bit numbers using 8085 microprocessor.

4. To perform subtraction of two 8 bit numbers using 8085 microprocessor.

5. To perform multiplication of two 8 bit numbers using 8085 microprocessor.

6. To develop and run a programme to find out largest and smallest number.

7. To develop and run a programme for converting temperature from F to C degree.

8. To develop and run a programme to compute square root of a given number.

9. To develop and run a programme for computing ascending/descending order of a number.

Department of Electronics and Communications Engineering