

## M.Tech. on High Performance Computing

### Semester I

| Subject Code | Name of the Subject                              | L T P | Credits |
|--------------|--|-------|---------|
| CC-1001      | Introduction to High Performance Computing (HPC) | 3 1 0 | 4       |
| CC-1002      | Computer Vision using HPC                        | 3 1 0 | 4       |
| CC-1003      | Algorithms for HPC                               | 3 1 0 | 4       |
|              | Elective I                                       | 3 1 0 | 4       |
|              | Elective II                                      | 3 1 0 | 4       |
| CC-1051      | Algorithms Laboratory                            | 0 0 3 | 2       |
| CC-1052      | Computer Vision Laboratory                       | 0 0 3 | 2       |
| CC-1053      | Project I  | 0 0 2 | 1       |

### Semester II

| Subject Code | Name of the Subject             | L T P | Credits |
|--------------|---------------------------------|-------|---------|
| CC-2001      | Software Engineering for HPC    | 3 1 0 | 4       |
| CC-2002      | Database Design for HPC         | 3 1 0 | 4       |
|              | Elective III                    | 3 1 0 | 4       |
|              | Elective IV                     | 3 1 0 | 4       |
|              | Elective V                      | 3 1 0 | 4       |
| CC-2051      | Software Engineering Laboratory | 0 0 3 | 2       |
| CC-2052      | Database Laboratory             | 0 0 3 | 2       |
| CC-2053      | Project II                      | 0 0 2 | 1       |

### Semester III

| Subject Code | Name of the Subject | Credits |
|--------------|---------------------|---------|
| CC-3051      | Project III         | 20      |
| CC-3052      | Seminar             | 05      |

### Semester IV

| Subject Code | Name of the Subject | Credits |
|--------------|---------------------|---------|
| CC-4051      | Project IV          | 20      |
| CC-4052      | Seminar             | 05      |

### List of Elective Subjects offered by the CC

| Subject Code | Elective Subjects                              |
|--------------|--|
| CC-9011      | Computer Organization                          |
| CC-9012      | Programming and Data Structure                 |
| CC-9013      | Biometrics                                     |
| CC-9014      | Human-Computer Interaction                     |
| CC-9015      | Indexing and Searching Techniques in Databases |
| CC-9016      | Natural Language Processing                    |

### List of Elective Subjects offered by other Departments

|          |                         |
|----------|-------------------------|
| CSE-2002 | Distributed Systems     |
| IT-9028  | Artificial Intelligence |
| ECE-9062 | Computer Architecture   |
| CA-3104  | Computer Networks       |