

**SREENIVASA INSTITUTE OF TECHNOLOGY AND MANAGMENT STUDIES,  
CHITTOOR**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**I YEAR M.TECH I-SEM (POWER ELECTRONICS)**

**R13**

| S.No | Course Code            | Subject                                                                                   | L     | P  | C  |
|------|------------------------|-------------------------------------------------------------------------------------------|-------|----|----|
| 1    | 13MEPE11               | MODERN CONTROL THEORY                                                                     | 4     | -  | 3  |
| 2    | 13MEPE12               | MICROPROCESSOR AND MICRO CONTROLLERS                                                      | 4     | -  | 3  |
| 3    | 13MPE013               | DYNAMICS OF ELECTRICAL MACHINES                                                           | 4     | -  | 3  |
| 4    | 13MPE014               | ANALYSIS OF POWER ELECTRONIC CONVERTERS                                                   | 4     | -  | 3  |
| 5    | 13MPE015               | POWER ELECTRONIC CONTROL OF DC DRIVES                                                     | 4     | -  | 3  |
| 6    | 13MEPE16A<br>13MPE016B | <b>ELECTIVE – I</b><br>NEURAL NETWORK AND FUZZY SYSTEMS<br>SWITCHED MODE POWER CONVERSION | 4     | -  | 3  |
| 7    | 13MPE017               | POWER CONVERTER LAB –I                                                                    | -     | 3  | 2  |
| 8    | 13MPE018               | POWER ELECTRONIC CONTROL CIRCUIT LAB                                                      | -     | 3  | 2  |
|      |                        | CONTACT PERIODS/WEEK                                                                      | 24    | 6  | 22 |
|      |                        |                                                                                           | TOTAL | 30 |    |

## I YEAR M.TECH II-SEM

| S.No | Course Code            | Subject                                                                                                | L     | P  | C  |
|------|------------------------|--------------------------------------------------------------------------------------------------------|-------|----|----|
| 1    | 13MEPE21               | FLEXIBLE AC TRANSMISSION SYSTEM                                                                        | 4     | -  | 3  |
| 2    | 13MEPE22               | HIGH VOLTAGE DC TRANSMISSION                                                                           | 4     | -  | 3  |
| 3    | 13MPE023               | POWER ELECTRONIC CONTROL OF AC DRIVES                                                                  | 4     | -  | 3  |
| 4    | 13MPE024               | ADVANCED POWER SEMICONDUCTOR DEVICES AND PROTECTION                                                    | 4     | -  | 3  |
| 5    | 13MPE025               | MODERN POWER ELECTRONICS                                                                               | 4     | -  | 3  |
| 6    | 13MEPE26A<br>13MEPE26B | <b>ELECTIVE-II</b><br>PROGRAMABLE LOGIC CONTROLLERS<br>ENERGY AUDITING,<br>CONSERVATION AND MANAGEMENT | 4     | -  | 3  |
| 7    | 13MPE027               | POWER CONVERTER LAB –II                                                                                | -     | 3  | 2  |
| 8    | 13MPE028               | ELECTRICAL SYSTEM SIMULATION LAB                                                                       | -     | 3  | 2  |
|      |                        | CONTACT PERIODS/WEEK                                                                                   | 24    | 6  | 22 |
|      |                        |                                                                                                        | TOTAL | 30 |    |

## II Year M.Tech I-Sem

| S.No | Course Code | Subject                 | L | P | C |
|------|-------------|-------------------------|---|---|---|
| 1    | 13MPE031    | SEMINAR                 | - | - | 2 |
| 2    | 13MPE032    | COMPREHENSIVE VIVA VOCE | - | - | 2 |
|      |             | CONTACT PERIODS/WEEK    |   |   | 4 |
|      |             |                         |   |   |   |

## II Year M.Tech II-Sem

| S.No | Course Code | Subject              | L | P | C  |
|------|-------------|----------------------|---|---|----|
| 1    | 13MPE041    | PROJECT WORK         |   |   | 12 |
|      |             | CONTACT PERIODS/WEEK |   |   | 12 |