



**SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL**  
**SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULUM AND NEP 2020**  
*w.e.f July 2021*

**Grading System** (For Student admitted in July 2021 onwards)  
**Bachelor of Technology (Electrical Engineering)**  
**EE-III Semester (II Year)**

| S. No.       | Subject Code | Category | Subject Name                                                                     | Maximum Marks Allotted       |              |                  |                |            |                   | Total Marks                              | Hours/ Week |          |           | Total Credit                          |
|--------------|--------------|----------|----------------------------------------------------------------------------------|------------------------------|--------------|------------------|----------------|------------|-------------------|------------------------------------------|-------------|----------|-----------|---------------------------------------|
|              |              |          |                                                                                  | Theory                       |              |                  | Practical Slot |            |                   |                                          | L           | T        | P         |                                       |
|              |              |          |                                                                                  | End Sem.                     | Mid Sem Test | Quiz, Assignment | End Sem        | Lab work   | Assignment / Quiz |                                          |             |          |           |                                       |
| 1            | BE-31        | BSC      | Mathematics –III (M-III)<br>(Probability & Statics)                              | 60                           | 30           | 10               | -              | -          | -                 | 100                                      | 3           | 1        | 0         | 4                                     |
| 2            | BE-32        | BSC      | Biology                                                                          | 60                           | 30           | 10               | -              | -          | -                 | 100                                      | 3           | 1        | 0         | 4                                     |
| 3            | EE-31        | DC       | Electrical Measurement &<br>Measuring Instruments                                | 60                           | 30           | 10               | 30             | 10         | 10                | 150                                      | 2           | 1        | 2         | 4                                     |
| 4            | EE-32        | DC       | Analog Electronics                                                               | 60                           | 30           | 10               | 30             | 10         | 10                | 150                                      | 3           | 1        | 2         | 5                                     |
| 5            | EE-33        | DC       | Network Analysis                                                                 | 60                           | 30           | 10               | 30             | 10         | 10                | 150                                      | 2           | 1        | 4         | 5                                     |
| 6            | EE-34        | DLC      | Electrical Workshop                                                              | -                            | -            | -                | 50             | 50         | 50                | 150                                      | 0           | 0        | 4         | 2                                     |
| 7            | MC-3         | NNP      | NSS/NCC/PHYSICAL<br>EDUCATION                                                    | 30                           | 10           | 10               | 30             | 10         | 10                | 100                                      | 1           | -        | 2         | 2                                     |
| 8            | MC-3A        | NNP      | CAMP-1 FOR NSS/<br>NCC/PHYSICAL EDUCATION<br>EVALUATION IN III <sup>rd</sup> SEM | 30                           | 10           | 10               | 30             | 10         | 10                | 100                                      | 2           | -        | 6         | 5                                     |
| 9            | BE-35        | PDFS     | PROFESSIONAL DEVELOPMENT FISHINGH SCHOOL-LEVEL -I                                | MANDATORY COURSE(NON CREDIT) |              |                  |                |            |                   |                                          |             |          |           |                                       |
| <b>TOTAL</b> |              |          |                                                                                  | <b>360</b>                   | <b>170</b>   | <b>70</b>        | <b>200</b>     | <b>100</b> | <b>100</b>        | <b>800<sup>\$</sup>/1000<sup>#</sup></b> | <b>16</b>   | <b>5</b> | <b>20</b> | <b>24<sup>\$</sup>/31<sup>#</sup></b> |

L: Lecture

T: Tutorial

P: Practical

# APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS.

\$ APPLICABLE ONLY FOR LATERAL ENTRY STUDENTS ADMITTED IN JULY 2021 ONWARDS WHO ARE NOT OFFERED NSS/NCC/ PHYSICAL EDUCATION.



**SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL**  
**SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULUM AND NEP 2020**  
**w.e.f July 2021**

**Grading System (For Student admitted in July 2021 onwards)**  
**Bachelor of Technology (Electrical Engineering)**  
**EE-IV Semester (II Year)**

| S. No.       | Subject Code | Category | Subject Name                                                                       | Maximum Marks Allotted |            |                  |            |           |                   | Total Marks                            | Hours / Week |          |           | Credit                               |
|--------------|--------------|----------|------------------------------------------------------------------------------------|------------------------|------------|------------------|------------|-----------|-------------------|----------------------------------------|--------------|----------|-----------|--------------------------------------|
|              |              |          |                                                                                    | Theory                 |            |                  | Practical  |           |                   |                                        | L            | T        | P         |                                      |
|              |              |          |                                                                                    | End Sem                | Mid Sem    | Quiz, Assignment | End Sem    | Lab work  | Assignment / Quiz |                                        |              |          |           |                                      |
| 1            | EE-41        | DC       | Electrical Machine-I (EM-I)                                                        | 60                     | 30         | 10               | 30         | 10        | 10                | 150                                    | 2            | 1        | 2         | 4                                    |
| 2            | EE-42        | DC       | Power System -I (PS-I)                                                             | 60                     | 30         | 10               | 30         | 10        | 10                | 150                                    | 3            | 1        | 2         | 5                                    |
| 3            | EE-43        | DC       | Digital Electronics & Logic Design (DELD)                                          | 60                     | 30         | 10               | 30         | 10        | 10                | 150                                    | 2            | 1        | 4         | 5                                    |
| 4            | EE-44        | DC       | Electrical Egg. Material                                                           | 60                     | 30         | 10               | -          | -         | -                 | 100                                    | 3            | 1        | -         | 4                                    |
| 5            | EE-45        | DC       | Electro Magnetic Theory                                                            | 60                     | 30         | 10               | -          | -         | -                 | 100                                    | 3            | 1        | -         | 4                                    |
| 6            | BE-42        | DLC      | MATLAB Simulation Lab (MS Lab)                                                     | -                      | -          | -                | 50         | 50        | 50                | 150                                    | 0            | 0        | 4         | 2                                    |
| 7            | MC-4         | NNP      | NSS/NCC/PHYSICAL EDUCATION                                                         | 30                     | 10         | 10               | 30         | 10        | 10                | 100                                    | 2            | -        | 2         | 3                                    |
| <b>TOTAL</b> |              |          |                                                                                    | <b>330</b>             | <b>160</b> | <b>60</b>        | <b>170</b> | <b>90</b> | <b>90</b>         | <b>800<sup>§</sup>/900<sup>#</sup></b> | <b>15</b>    | <b>5</b> | <b>14</b> | <b>24<sup>§</sup>/27<sup>#</sup></b> |
| 8            | BE-43        | MC       | ENVIRONMENTAL SCIENCE (MANDATORY COURSE) (NON CREDIT)                              |                        |            |                  |            |           |                   |                                        |              |          |           |                                      |
| 9            | BE-44        | PDFS     | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL LEVEL-II (MANDATORY COURSE) (NON CREDIT) |                        |            |                  |            |           |                   |                                        |              |          |           |                                      |

L: Lecture

T:Tutorial

P:Practical

INDUSTRIAL TRAINING (2 WEEKS) TO BE CARRIED OUT AT THE END OF IV<sup>TH</sup> SEM .EXAM AND EVALUATED IN V<sup>TH</sup> SEM

HIIND CAMP FOR NSS/NCC/PHYSICAL EDUCATION TO BE CARRIED OUT AT THE END OF IV<sup>TH</sup> SEM EXAM AND EVALUATED IN V<sup>TH</sup> SEM.

# APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS.

§ APPLICABLE ONLY FOR LATERAL ENTRY STUDENTS ADMITTED IN JULY 2021 ONWARDS WHO ARE NOT OFFERED NSS/NCC/ PHYSICAL EDUCATION



**SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL**  
**SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULUM AND NEP 2020**  
**w.e.f July 2021**

**Grading System (For Student admitted in July 2021 onwards)**  
**Bachelor of Technology (Electrical Engineering)**  
**EE-V Semester (III Year)**

| S. No.       | Subject Code | Category | Subject Name                                                                        | Maximum Marks Allotted |            |                  |            |            |                   | Total Marks                             | Hours/ Week |          |           | Credit                               |
|--------------|--------------|----------|-------------------------------------------------------------------------------------|------------------------|------------|------------------|------------|------------|-------------------|-----------------------------------------|-------------|----------|-----------|--------------------------------------|
|              |              |          |                                                                                     | Theory                 |            |                  | Practical  |            |                   |                                         | L           | T        | P         |                                      |
|              |              |          |                                                                                     | End Sem.               | Mid Sem    | Quiz, Assignment | End Sem    | Lab work   | Assignment / Quiz |                                         |             |          |           |                                      |
| 1            | EE-51        | DC       | Utilization of Electrical Energy (UEE)                                              | 60                     | 30         | 10               | -          | -          | -                 | 100                                     | 3           | 1        | -         | 4                                    |
| 2            | EE-52        | DC       | Electrical Machines-II (EM-II)                                                      | 60                     | 30         | 10               | 30         | 10         | 10                | 150                                     | 2           | 1        | 4         | 5                                    |
| 3            | EE-53        | DC       | Microprocessor & Microcontroller ( $\mu p$ )                                        | 60                     | 30         | 10               | 30         | 10         | 10                | 150                                     | 2           | 1        | 4         | 5                                    |
| 4            | EE-54        | DC       | Power Electronics (PE)                                                              | 60                     | 30         | 10               | 30         | 10         | 10                | 150                                     | 3           | 1        | 2         | 5                                    |
| 5            | EE-55        | DE       | Electrical Energy Conservation and Auditing (EEC&A)                                 | 60                     | 30         | 10               | -          | -          | -                 | 100                                     | 3           | 1        | -         | 4                                    |
| 6            | EE-56        | DEL      | Industrial Training (2 weeks)                                                       | -                      | -          | -                | 50         | 50         | 50                | 150                                     | -           | -        | 2         | 1                                    |
| 7            | MC-5         | NNP      | NSS/NCC/PHYSICAL EDUCATION                                                          | 30                     | 10         | 10               | 30         | 10         | 10                | 100                                     | 1           | -        | 2         | 2                                    |
| 8            | MC-5A        | NNP      | CAMP-2 FOR NSS/NCC/PHYSICAL EDUCATION EVALUATION IN V <sup>TH</sup> SEM             | 30                     | 10         | 10               | 30         | 10         | 10                | 100                                     | 2           | -        | 6         | 5                                    |
| <b>TOTAL</b> |              |          |                                                                                     | <b>360</b>             | <b>170</b> | <b>70</b>        | <b>200</b> | <b>100</b> | <b>100</b>        | <b>800<sup>§</sup>/1000<sup>#</sup></b> | <b>16</b>   | <b>5</b> | <b>20</b> | <b>24<sup>§</sup>/31<sup>#</sup></b> |
| 9            | BE-52        | MC       | ESSENCE OF INDIAN KNOWLEDGE TRADITION MANDATORY COURSE (NON CREDIT)                 |                        |            |                  |            |            |                   |                                         |             |          |           |                                      |
| 10           | BE-53        | PDFS     | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL LEVEL-III (MANDATORY COURSE) (NON CREDIT) |                        |            |                  |            |            |                   |                                         |             |          |           |                                      |

**L: Lecture**

**T: Tutorial**

**P: Practical**

# APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS.

§ APPLICABLE ONLY FOR LATERAL ENTRY STUDENTS ADMITTED IN JULY 2021 ONWARDS WHO ARE NOT OFFERED NSS/NCC/ PHYSICAL EDUCATION



**SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL**  
**SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULUM AND NEP 2020**

w.e.f. 2021

**Grading System (For Students admitted in July 2021 onwards)**

**Bachelor of Technology (Electrical Engineering)**

**EE-VI Semester (III Year)**

| S. No        | Subject Code | Category | Subject Name                                                                       | Maximum Marks Allotted |            |                  |            |           |                   | Total Marks                             | Hours/ Week |          |           | Total Credits                         |
|--------------|--------------|----------|------------------------------------------------------------------------------------|------------------------|------------|------------------|------------|-----------|-------------------|-----------------------------------------|-------------|----------|-----------|---------------------------------------|
|              |              |          |                                                                                    | Theory                 |            |                  | Practical  |           |                   |                                         | L           | T        | P         |                                       |
|              |              |          |                                                                                    | End Sem.               | Mid Sem    | Quiz, Assignment | End Sem    | Lab work  | Assignment / Quiz |                                         |             |          |           |                                       |
| 1            | EE-61        | DC       | Power System Protection                                                            | 60                     | 30         | 10               | 30         | 10        | 10                | 150                                     | 2           | 1        | 2         | 4                                     |
| 2            | EE-62        | DC       | Control System (CS)                                                                | 60                     | 30         | 10               | 30         | 10        | 10                | 150                                     | 2           | 1        | 4         | 5                                     |
| 3            | EE-63        | DC       | Power System-II (PS-II)                                                            | 60                     | 30         | 10               | 30         | 10        | 10                | 150                                     | 3           | 1        | 4         | 6                                     |
| 4            | EE-64        | DC       | Departmental Elective-I                                                            | 60                     | 30         | 10               | -          | -         | -                 | 100                                     | 3           | 1        | 0         | 4                                     |
| 5            | EE-65        | OE       | Open Elective-I                                                                    | 60                     | 30         | 10               | -          | -         | -                 | 100                                     | 3           | 1        | 0         | 4                                     |
| 6            | EE-66        | P        | Engineering Design Project (EDP)                                                   | -                      | -          | -                | 50         | 50        | 50                | 150                                     | 0           | 0        | 2         | 1                                     |
| 7            | MC-6         | NNP      | NSS/NCC/PHYSICAL EDUCATION                                                         | 30                     | 10         | 10               | 30         | 10        | 10                | 100                                     | 2           | -        | 2         | 3                                     |
| <b>TOTAL</b> |              |          |                                                                                    | <b>330</b>             | <b>160</b> | <b>60</b>        | <b>170</b> | <b>90</b> | <b>90</b>         | <b>800<sup>\$</sup>/900<sup>#</sup></b> | <b>15</b>   | <b>5</b> | <b>14</b> | <b>24<sup>\$</sup>/27<sup>#</sup></b> |
| 8            | BE-61        | PDFS     | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL LEVEL-IV (MANDATORY COURSE) (NON CREDIT) |                        |            |                  |            |           |                   |                                         |             |          |           |                                       |

L: Lecture

T: Tutorial

P: Practical

|                                              |                                 |                             |                                           |
|----------------------------------------------|---------------------------------|-----------------------------|-------------------------------------------|
| Departmental Elective –I<br>(Select any one) | EE-64(A)                        | EE-64(B)                    | EE-64(C)                                  |
|                                              | Wind & Solar Energy             | Power Plant Engineering     | Generalised Theory of Electrical Machines |
| Open Elective –I<br>(Select any one)         | EE-65(A)                        | EE-65(B)                    | EE-65(C)                                  |
|                                              | Digital Signal Processing (DSP) | SCADA Systems & Application | FACTS                                     |

# APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS.

\$ APPLICABLE ONLY FOR LATERAL ENTRY STUDENTS ADMITTED IN JULY 2021 ONWARDS WHO ARE NOT OFFERED NSS/NCC/PHYSICAL EDUCATION.



**SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL**  
**SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULUM AND NEP 2020**  
**w.e.f 2021**

**Grading System (For Students admitted in July 2021 onwards)**  
**Bachelor of Technology (Electrical Engineering)**  
**EE-VII Semester (IV Year)**

| S. No.       | Subject Code |    | Subject Name                    | Maximum Marks Allotted |            |                  |            |           |                   | Total Marks                 | Hours/ Week |          |           | Total Credit                          |
|--------------|--------------|----|---------------------------------|------------------------|------------|------------------|------------|-----------|-------------------|-----------------------------|-------------|----------|-----------|---------------------------------------|
|              |              |    |                                 | Theory                 |            |                  | Practical  |           |                   |                             | L           | T        | P         |                                       |
|              |              |    |                                 | End Sem.               | Mid Sem    | Quiz, Assignment | End Sem    | Lab work  | Assignment / Quiz |                             |             |          |           |                                       |
| 1            | EE-71        | DC | Electrical Machine Design (EMD) | 60                     | 30         | 10               | 30         | 10        | 10                | 150                         | 2           | 1        | 2         | 4                                     |
| 2            | EE-72        | DC | Electrical Drives (ED)          | 60                     | 30         | 10               | 30         | 10        | 10                | 150                         | 2           | 1        | 2         | 4                                     |
| 3            | EE-73        | DC | High Voltage Engineering (HVE)  | 60                     | 30         | 10               | -          | -         | -                 | 100                         | 3           | 1        | 2         | 4                                     |
| 4            | EE-74        | DE | Departmental Elective-II        | 60                     | 30         | 10               | -          | -         | -                 | 100                         | 3           | 1        | 0         | 4                                     |
| 5            | EE-75        | OE | Open Elective-II                | 60                     | 30         | 10               | -          | -         | -                 | 100                         | 3           | 1        | 0         | 4                                     |
| 6            | EE-76        | P  | Major Project – I (MP-I)        | -                      | -          | -                | 100        | 50        | 50                | 200                         | -           | -        | 8         | 4                                     |
| <b>TOTAL</b> |              |    |                                 | <b>300</b>             | <b>150</b> | <b>50</b>        | <b>160</b> | <b>70</b> | <b>70</b>         | <b>800<sup>\$</sup>/800</b> | <b>13</b>   | <b>5</b> | <b>12</b> | <b>24<sup>\$</sup>/24<sup>#</sup></b> |

L: Lecture

T: Tutorial

P: Practical

|                                               |                                      |                           |                                 |
|-----------------------------------------------|--------------------------------------|---------------------------|---------------------------------|
| Departmental Elective –II<br>(Select any one) | EE-74(A)                             | EE-74(B)                  | EE-74(C)                        |
|                                               | EHV AC & DC Transmission             | Renewable Energy Sources  | Flexible AC Transmission System |
| Open Elective –II<br>(Select any one)         | EE-75(A)                             | EE-75(B)                  | EE-75(C)                        |
|                                               | Computer Application to Power System | Advanced Electrical Drive | Wind and Solar Energy Systems   |

# APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS.

\$ APPLICABLE ONLY FOR LATERAL ENTRY STUDENTS ADMITTED IN JULY 2021 ONWARDS WHO ARE NOT OFFERED  
 NSS/NCC/PHYSICAL EDUCATION



**SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL**  
**SCHEME OF EXAMINATION AS PER AICTE MODEL CURRICULUM AND NEP 2020**  
**w.e.f 2021**

**Grading System (For Students admitted in July 2021 onwards)**  
**Bachelor of Technology (Electrical Engineering)**  
**EE-VIII Semester (IV Year)**

| S. No.       | Subject Code | Category | Subject Name                | Maximum Marks Allotted |         |                  |                |           |   | Total Marks                         | Hours/Week |   |    | Credit                            |
|--------------|--------------|----------|-----------------------------|------------------------|---------|------------------|----------------|-----------|---|-------------------------------------|------------|---|----|-----------------------------------|
|              |              |          |                             | Theory Slot            |         |                  | Practical Slot |           |   |                                     | L          | T | P  |                                   |
|              |              |          |                             | End Sem.               | Mid Sem | Quiz, Assignment | End Sem        | Team Work |   |                                     |            |   |    |                                   |
| 1            | EE -81       | P        | Major Project-II/Internship | -                      | -       | -                | 600            | 200       | - | 800                                 | -          | - | 30 | 15                                |
| <b>TOTAL</b> |              |          |                             | -                      | -       | -                | 600            | 200       | - | 800 <sup>\$</sup> /800 <sup>#</sup> | -          | - | 30 | 15 <sup>\$</sup> /15 <sup>#</sup> |

**L: Lecture**

**ST: Tutorial**

**P: Practical**

**# APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS.**

**\$ APPLICABLE ONLY FOR LATERAL ENTRY STUDENTS ADMITTED IN JULY 2021 ONWARDS WHO ARE NOT OFFERED NSS/NCC/PHYSICAL EDUCATION**