

**B. Tech. Electrical and Electronics Engineering**  
**Four Year Programme**  
**Academic Curriculum (2009-10 onwards)**

**Fourth Year**

| Autumn Semester  | Course Code                               | Course Title                     | Contact Hours per Week |          |          | Credits   | ETE Duration | Weightage (%) |      |     |
|------------------|---|----------------------------------|------------------------|----------|----------|-----------|--------------|---------------|------|-----|
|                  |   |                                  | L                      | T        | P        |           | Hours        | CW*           | MTT* | ETE |
|                  | EE 401                                    | Utilization of Electrical Energy | 3                      | 0        | 0        | 3         | 3            | 10            | 40   | 50  |
| MA 302           | Linear Optimization                       | 3                                | 1                      | 0        | 4        | 3         | 10           | 40            | 50   |     |
| EE 403           | Power System Protection and Switchgear    | 3                                | 1                      | 0        | 4        | 2         | 10           | 40            | 50   |     |
| EC 214           | Communication Engineering                 | 3                                | 1                      | 0        | 4        | 3         | 10           | 40            | 50   |     |
|                  | Elective-I                                | 4                                | 0                      | 0        | 4        | 3         | 10           | 40            | 50   |     |
| EE 421           | Minor Project                             | 0                                | 0                      | 4        | 2        | -         | 100          |               |      |     |
| GE 401           | Industrial Training Seminar <sup>††</sup> | 0                                | 0                      | 4        | 2        | -         | 100          |               |      |     |
| GE 403           | Discipline                                | -                                | -                      | -        | 1        | -         | 100          |               |      |     |
| <b>Sub Total</b> |   |                                  | <b>16</b>              | <b>3</b> | <b>8</b> | <b>24</b> |              |               |      |     |
| GE 405           | Proficiency (Non Credit) <sup>†</sup>     | -                                | -                      | -        | 1        |           |              |               |      |     |

| Spring Semester  | Course Code                           | Course Title              | Contact Hours per Week |          |           | Credits   | ETE Duration | Weightage (%) |       |     |
|------------------|---------------------------------------|---------------------------|------------------------|----------|-----------|-----------|--------------|---------------|-------|-----|
|                  |                                       |                           | L                      | T        | P         |           | Hours        | CW*           | MTT** | ETE |
|                  | EE 402                                | Electrical Machine Design | 3                      | 1        | 0         | 4         | 3            | 10            | 40    | 50  |
|                  | Elective –II                          | 4                         | 0                      | 0        | 4         | 3         | 10           | 40            | 50    |     |
|                  | Elective—III                          | 4                         | 0                      | 0        | 4         | 3         | 10           | 40            | 50    |     |
| EE 422           | Technical seminar                     | 0                         | 0                      | 2        | 1         | -         | 100          |               |       |     |
| EE 424           | Major Project                         | 0                         | 0                      | 20       | 10        | -         | 100          |               |       |     |
| GE 402           | Discipline                            | -                         | -                      | -        | 1         | -         | 100          |               |       |     |
| <b>Sub Total</b> |                                       |                           | <b>11</b>              | <b>1</b> | <b>22</b> | <b>24</b> |              |               |       |     |
| GE 404           | Proficiency (Non Credit) <sup>†</sup> | -                         | -                      | -        | 1         |           |              |               |       |     |

**Total Credits = 210**

\* **Theory: Assignments and regularity** will be evaluated out of 10(ten) marks in a semester.

**Practicals:** Practical record and regularity will be evaluated 4 (four) times in a semester. Each evaluation will be out of 10 (ten) marks.

\*\* **Theory :** Two mid-term examinations of 20 (twenty) marks each.

**Practicals:** Viva/quizzes will be held 4 (four) times in a semester, each of 10 (ten) marks.

† Evaluation of proficiency will be based on the participation in co-curricular activities.

†† Students will go for an industrial training programme of 8 (eight) weeks in the summer after the end of the III year spring semester examination.