



# Shri Shankaracharya Technical Campus, Bhilai

(An Autonomous Institute Affiliated to CSVTU Bhilai)

## Scheme of Teaching & Examination (Effective from 2020-2021 Batch)

### B. Tech. (Electrical and Electronics Engineering) Fifth Semester

| Sl. No. | Board of Studies (BOS)     | Courses (Subject)                                            | Course Code     | Period per Week |   |    | Scheme of Examination |     |     | Total Marks | Credit |
|---------|----------------------------|--------------------------------------------------------------|-----------------|-----------------|---|----|-----------------------|-----|-----|-------------|--------|
|         |                            |                                                              |                 | L               | T | P  | Theory/Lab            |     |     |             |        |
|         |                            |                                                              |                 |                 |   |    | ESE                   | CT  | TA  |             |        |
| 1.      | Electrical and Electronics | Control System Engineering                                   | EEE103501       | 2               | 1 | -  | 100                   | 20  | 30  | 150         | 3      |
| 2.      | Electrical and Electronics | Micro Processor and Micro Controller                         | EEE103502       | 2               | 1 | -  | 100                   | 20  | 30  | 150         | 3      |
| 3.      | Electrical and Electronics | Electrical Power System                                      | EEE103503       | 2               | 1 | -  | 100                   | 20  | 30  | 150         | 3      |
| 4.      | Electrical and Electronics | Integrated Circuit                                           | EEE103504       | 2               | 1 | -  | 100                   | 20  | 30  | 150         | 3      |
| 5.      | Electrical and Electronics | Professional Elective-1                                      | (Refer Table-1) | 3               | - | -  | 100                   | 20  | 30  | 150         | 3      |
| 6.      | Electrical and Electronics | Control System Engineering Lab                               | EEE103591       | -               | - | 2  | 25                    | -   | 25  | 50          | 1      |
| 7.      | Electrical and Electronics | Micro Processor and Micro Controller Lab                     | EEE103592       | -               | - | 2  | 25                    | -   | 25  | 50          | 1      |
| 8.      | Electrical and Electronics | Integrated Circuit Lab                                       | EEE103593       | -               | - | 2  | 25                    | -   | 25  | 50          | 1      |
| 9       | Electrical and Electronics | Minor Project-I                                              | EEE103594       | -               | - | 2  | 25                    | -   | 25  | 50          | 1      |
| 10.     | Electrical and Electronics | Practical Training/ Internship assessment (Report & Seminar) | EEE103595       | -               | - | 2  | -                     | -   | 25  | 25          | 1      |
| 11.     | Electrical and Electronics | Constitution of India                                        | EEE103596       | -               | - | -  | -                     | -   | 25  | 25          | -      |
| Total   |                            |                                                              |                 | 11              | 4 | 10 | 600                   | 100 | 300 | 1000        | 20     |

#### Note:

- (a) Abbreviations used : L- Lecture, T- Tutorial, P- Practical, ESE- End Semester Exam, CT- Class Test, TA- Teacher's Assessment  
 (b) The duration of end semester examination of all theory papers will be of three hours.  
 (c) Constitution of India will be conducted by / relevant discipline as decided by the Director.

**Table 1 : Professional Elective - I**

| Sl. No. | Board of Studies (BOS)        | Course(Subject)                    | Course Code |
|---------|-------------------------------|------------------------------------|-------------|
| 1.      | Electrical & Electronics Engg | Wind and Solar Energy Systems      | EEE103521   |
| 2.      | Electrical & Electronics Engg | Electrical Machine Design          | EEE103522   |
| 3.      | Electrical & Electronics Engg | Electrical Machine III             | EEE103523   |
| 4.      | Electrical & Electronics Engg | Energy Storage System              | EEE103524   |
| 5.      | Electrical & Electronics Engg | Hybrid Electric Vehicle Technology | EEE103525   |



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## Scheme of Teaching & Examination (Effective from 2020-2021 Batch)

### B. Tech. (Electrical and Electronics Engineering) Sixth Semester

| Sl. No. | Board of Studies (BOS)     | Courses (Subject)                       | Course Code     | Period per Week |   |   | Scheme of Examination |     |     | Total Marks | Credit |
|---------|----------------------------|-----------------------------------------|-----------------|-----------------|---|---|-----------------------|-----|-----|-------------|--------|
|         |                            |                                         |                 | L               | T | P | Theory/Lab            |     |     |             |        |
|         |                            |                                         |                 |                 |   |   | ESE                   | CT  | TA  |             |        |
| 1.      | Electrical and Electronics | Power Electronics Device & Circuits     | EEE103601       | 2               | 1 | - | 100                   | 20  | 30  | 150         | 4      |
| 2.      | Electrical and Electronics | Signal& System                          | EEE103602       | 2               | 1 | - | 100                   | 20  | 30  | 150         | 3      |
| 3.      | Electrical and Electronics | Power System Analysis                   | EEE103603       | 2               | 1 | - | 100                   | 20  | 30  | 150         | 3      |
| 4.      | Electrical and Electronics | Professional Elective-II                | (Refer Table-1) | 2               | 1 | - | 100                   | 20  | 30  | 150         | 3      |
| 5.      | Electrical and Electronics | Open Elective-1                         | (Refer Table-2) | 3               | - | - | 100                   | 20  | 30  | 150         | 3      |
| 6.      | Electrical and Electronics | Power Electronics Device & Circuits lab | EEE103691       | -               | - | 2 | 25                    | -   | 25  | 50          | 1      |
| 7.      | Electrical and Electronics | Introduction to Python Program Lab      | EEE103692       | -               | - | 2 | 25                    | -   | 25  | 50          | 1      |
| 8.      | Electrical and Electronics | Power System Simulation Lab             | EEE103693       | -               | - | 2 | 25                    | -   | 25  | 50          | 1      |
| 9       | Electrical and Electronics | Minor Project-II                        | EEE103694       | -               | - | 2 | 50                    | -   | 25  | 75          | 1      |
| 10.     | Electrical and Electronics | Essence of Indian Knowledge Tradition   | EEE103695       | -               | - | - | -                     | -   | 25  | 25          | -      |
| Total   |                            |                                         |                 | 11              | 4 | 8 | 625                   | 100 | 275 | 1000        | 20     |

**Table 1 : Professional Elective - II**

| Sl. No. | Board of Studies (BOS)        | Course(Subject)                        | Course Code |
|---------|-------------------------------|----------------------------------------|-------------|
| 1.      | Electrical & Electronics Engg | Communication System                   | EEE103621   |
| 2.      | Electrical & Electronics Engg | Testing & Commissioning of Electrical  | EEE103622   |
| 3.      | Electrical & Electronics Engg | Computer Organization and Architecture | EEE103623   |
| 4.      | Electrical & Electronics Engg | Smart Grid Systems                     | EEE103624   |
| 5.      | Electrical & Electronics Engg | Wireless Power Transmission Technology | EEE103625   |



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## **Scheme of Teaching & Examination (Effective from 2020-2021 Batch)**

### **B. Tech. (Electrical and Electronics Engineering) Sixth Semester**

| Table 2 : Open Elective - I |                                             |                                                      |             |                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|---------------------------------------------|------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sl. No.                     | Board of Studies (BOS)                      | Course(Subject)                                      | Course Code | Link                                                                                                                                                                                                                                                                                                                                                                    |
| 1.                          | Civil Engineering                           | Project Construction Planning and Control            |             | <a href="https://archive.nptel.ac.in/courses/105/106/105106149/">https://archive.nptel.ac.in/courses/105/106/105106149/</a>                                                                                                                                                                                                                                             |
| 2.                          | Civil Engineering                           | Remote Sensing Principle & Application               |             | <a href="https://nptel.ac.in/courses/105101206">https://nptel.ac.in/courses/105101206</a>                                                                                                                                                                                                                                                                               |
| 3.                          | Computer Science & Engineering              | Robotics                                             |             | <a href="https://onlinecourses.nptel.ac.in/noc22_me109/preview">https://onlinecourses.nptel.ac.in/noc22_me109/preview</a>                                                                                                                                                                                                                                               |
| 4.                          | Computer Science & Engineering              | Data Visualization                                   |             | <a href="https://onlinecourses.nptel.ac.in/noc22_cs72/preview">https://onlinecourses.nptel.ac.in/noc22_cs72/preview</a>                                                                                                                                                                                                                                                 |
| 5.                          | Computer Science & Engineering              | Pattern Recognition and Visual Recognition           |             | <a href="https://onlinecourses.nptel.ac.in/noc22_ee119/preview">https://onlinecourses.nptel.ac.in/noc22_ee119/preview</a>                                                                                                                                                                                                                                               |
| 6.                          | Computer Science & Engineering              | Predictive Analysis                                  |             |                                                                                                                                                                                                                                                                                                                                                                         |
| 7.                          | Electrical & Electronics Engineering        | Hybrid Electric Vehicle                              |             | <a href="https://nptel.ac.in/courses/108102121">https://nptel.ac.in/courses/108102121</a>                                                                                                                                                                                                                                                                               |
| 8.                          | Electrical & Electronics Engineering        | Grid Integration of Renewable Energy Sources         |             | <a href="https://nptel.ac.in/courses/103103206">https://nptel.ac.in/courses/103103206</a><br><a href="https://onlinecourses.nptel.ac.in/noc22_ee82/preview">https://onlinecourses.nptel.ac.in/noc22_ee82/preview</a>                                                                                                                                                    |
| 9.                          | Electrical Engineering                      | Renewable Energy Systems                             |             | <a href="https://nptel.ac.in/courses/1031032061">nptel.ac.in/courses/1031032061</a>                                                                                                                                                                                                                                                                                     |
| 10..                        | Electrical Engineering                      | Industrial Automation and PLC                        |             | <a href="https://nptel.ac.in/courses/108105062">nptel.ac.in/courses/108105062</a>                                                                                                                                                                                                                                                                                       |
| 11.                         | Electronics & Telecommunication Engineering | Introduction to Wireless and Cellular Communications |             | <a href="https://nptel.ac.in/courses/106106167">https://nptel.ac.in/courses/106106167</a>                                                                                                                                                                                                                                                                               |
| 12.                         | Electronics & Telecommunication Engineering | Cryptography & Network Security                      |             | <a href="https://nptel.ac.in/courses/106105162">https://nptel.ac.in/courses/106105162</a>                                                                                                                                                                                                                                                                               |
| 13.                         | Information Technology                      | Human Computer Interaction                           |             | <a href="https://nptel.ac.in/courses/106106177">https://nptel.ac.in/courses/106106177</a>                                                                                                                                                                                                                                                                               |
| 14.                         | Information Technology                      | Virtual reality                                      |             | <a href="https://nptel.ac.in/uacourses/106106177">https://nptel.ac.in/uacourses/106106177</a>                                                                                                                                                                                                                                                                           |
| 15.                         | MBA                                         | Management for Technocrats                           |             | <a href="https://nptel.ac.in/courses/110105146">https://nptel.ac.in/courses/110105146</a>                                                                                                                                                                                                                                                                               |
| 16.                         | MBA                                         | Industrial Management                                |             | <a href="https://onlinecourses.swayam2.ac.in/nou22_mg07/">https://onlinecourses.swayam2.ac.in/nou22_mg07/</a><br><a href="https://onlinecourses.swayam2.ac.in/nou22_mg06/preview">https://onlinecourses.swayam2.ac.in/nou22_mg06/preview</a><br><a href="https://onlinecourses.nptel.ac.in/noc22_mg81/preview">https://onlinecourses.nptel.ac.in/noc22_mg81/preview</a> |
| 17.                         | Mechanical Engineering                      | Operation Research                                   |             | <a href="https://nptel.ac.in/courses/110106062">https://nptel.ac.in/courses/110106062</a>                                                                                                                                                                                                                                                                               |
| 18.                         | Mechanical Engineering                      | Engineering Economics                                |             | <a href="https://nptel.ac.in/courses/112107209">https://nptel.ac.in/courses/112107209</a>                                                                                                                                                                                                                                                                               |

#### **Note:**

- Abbreviations used : L- Lecture, T- Tutorial, P- Practical, ESE- End Semester Exam, CT- Class Test, TA- Teacher's Assessment
- 1/4th of total strength of students subject to minimum of 20 students is required to offer an elective in the department in a particular academic session.
- Choice of elective course once made for an examination cannot be changed in future examinations.
- The duration of end semester examination of all theory papers will be of three hours.