

**STATE BOARD OF TECHNICAL EDUCATION, BIHAR**

Scheme of Teaching and Examinations for

**VI<sup>th</sup> SEMESTER DIPLOMA IN ELECTRICAL ENGINEERING/ ELECTRICAL & ELECTRONIC ENGINEERING.**

(Effective from Session 2020-21 Batch)

**THEORY**

| Sr. No. | SUBJECT                                    | SUBJECT CODE | TEACHING SCHEME  | EXAMINATION-SCHEME |                                   |                         |                                  |                     |               |                           |         |
|---------|--|--------------|------------------|--------------------|-----------------------------------|-------------------------|----------------------------------|---------------------|---------------|---------------------------|---------|
|         |  |              | Periods per Week | Hours of Exam.     | Teacher's Assessment (TA) Marks A | Class Test (CT) Marks B | End Semester Exam. (ESE) Marks C | Total Marks (A+B+C) | Pass Mark ESE | Pass Marks in the Subject | Credits |
| 1.      | Entrepreneurship and start –ups            | 2000601      | 3                | 3                  | 10                                | 20                      | 70                               | 100                 | 28            | 40                        | 3       |
| 2.      | Building Electrification                   | 2020602      | 4                | 3                  | 10                                | 20                      | 70                               | 100                 | 28            | 40                        | 4       |
| 3.      | Utilization of Electrical Energy           | 2020603      | 4                | 3                  | 10                                | 20                      | 70                               | 100                 | 28            | 40                        | 4       |
| 4.      | Open Elective -I                           | 2020604      | 3                | 3                  | 10                                | 20                      | 70                               | 100                 | 28            | 40                        | 3       |
|         | Network Theory(2020604A)                   |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
|         |  |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
| 5.      | Open Elective -II / COE                    |              | 3                | 3                  | 10                                | 20                      | 70                               | 100                 | 20            | 20                        | 2       |
|         | Indian Constitution (2000605A)             |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
|         |  |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
|         | Internet of Things (Advance) (2000605C)    |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
|         |  |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
|         | Industrial Automation (Advance) (2000605F) |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
|         |  |              |                  |                    |                                   |                         |                                  |                     |               |                           |         |
|         | <b>Total: -</b>                            |              | 17               |                    |                                   |                         | 350                              | 500                 |               |                           | 16      |

**PRACTICAL**

| Sr. No. | SUBJECT  | SUBJECT CODE | TEACHING SCHEME  | EXAMINATION-SCHEME |               |                |             |                           |         |
|---------|--|--------------|------------------|--------------------|---------------|----------------|-------------|---------------------------|---------|
|         |  |              | Periods per Week | Hours of Exam.     | Practical     |                | Total Marks | Pass Marks in the Subject | Credits |
|         |  |              |                  |                    | Internal (PA) | External (ESE) |             |                           |         |
| 6.      | Elective Lab / COE Lab                         |              | 4                | 3                  | 20            | 30             | 50          | 20                        | 2       |
|         | Building Electrification Laboratory (2020608A) |              |                  |                    |               |                |             |                           |         |
|         |  |              |                  |                    |               |                |             |                           |         |
|         | Drone Technology (Advance) Lab (2000608D)      |              |                  |                    |               |                |             |                           |         |
|         |  |              |                  |                    |               |                |             |                           |         |
|         | Electric Vehicles (Advance) Lab (2000608G)     |              |                  |                    |               |                |             |                           |         |
|         |  |              |                  |                    |               |                |             |                           |         |
|         | <b>Total: -</b>                                |              | 04               |                    |               |                | 50          |                           | 02      |

**TERM WORK**

| Sr. No.  | SUBJECT  | SUBJECT CODE                                    | TEACHING SCHEME  | EXAMINATION-SCHEME     |                         |                          |                           |           |
|--|--|---|------------------|------------------------|-------------------------|--------------------------|---------------------------|-----------|
|  |  |   | Periods per Week | Marks of Internal (PA) | Marks of External (ESE) | Total Marks              | Pass Marks in the Subject | Credits   |
| 7.   | Seminar  | 2020609   | 4                | 15                     | 35                      | 50                       | 20                        | 2         |
| 8.   | Major Project                                  | 2020610   | 6                | 30                     | 70                      | 100                      | 40                        | 3         |
| 9.   | Term Work                                      |   | 2                | 20                     | 30                      | 50                       | 20                        | 1         |
|  | Course Under Moocs /NPTEL/ Others TW (2020611) | Artificial Intelligence (Advance) TW (2000611B) |                  |                        |                         |                          |                           |           |
|  |  |   |                  |                        |                         |                          |                           |           |
|  | 3D Printing & Design (Advance) TW (2000611E)   | Industrial Automation (Advance) TW (2000611F)   |                  |                        |                         |                          |                           |           |
|  |  |   |                  |                        |                         |                          |                           |           |
|  | <b>Total: -</b>                                |   | 12               |                        |                         | 200                      |                           | 06        |
| <b>Total Periods per week Each of duration One Hour 33</b> |  |   |                  |                        |                         | <b>Total Marks = 750</b> |                           | <b>24</b> |