

**PSG College of Arts & Science, Coimbatore – 14.**

**Scheme of Learning and Evaluation**

**Programme: B Sc Electronics (SF)**

| <b>Course Code</b> | <b>Course Title</b>                                                                | <b>Course Category</b> | <b>Course Type</b> | <b>Part Type</b> | <b>Semester</b> | <b>Credits</b> |
|--------------------|------------------------------------------------------------------------------------|------------------------|--------------------|------------------|-----------------|----------------|
| 22LAT101N          | Tamil - I                                                                          | ELECTIVE               | THEORY             | 1                | 1               | 3              |
| 22LAH101N          | Hindi - I                                                                          | ELECTIVE               | THEORY             | 1                | 1               | 3              |
| 22LAF101N          | French - I                                                                         | ELECTIVE               | THEORY             | 1                | 1               | 3              |
| 22EU101N           | Communicative English I - Interpersonal Communication                              | CORE                   | THEORY             | 2                | 1               | 3              |
| 22ELU101N          | Electric Circuits                                                                  | CORE                   | THEORY             | 3                | 1               | 3              |
| 22ELU102N          | Semiconductor Devices                                                              | CORE                   | THEORY             | 3                | 1               | 3              |
| 22ELU103N          | Mathematics I                                                                      | CORE                   | THEORY             | 3                | 1               | 4              |
| 22ELU207N          | Practical I (Skill Based)<br>Electric Circuits Lab                                 | CORE                   | PRACTICAL          | 3                | 1               | 2              |
| 22ELU208N          | Practical II (Skill Based)<br>Semiconductor Devices Lab                            | CORE                   | PRACTICAL          | 3                | 1               | 2              |
| 22LAT202N          | Tamil - II                                                                         | ELECTIVE               | THEORY             | 1                | 2               | 3              |
| 22LAH202N          | Hindi - II                                                                         | ELECTIVE               | THEORY             | 1                | 2               | 3              |
| 22LAF202N          | FRENCH - II - FRENCH LANGUAGE & CULTURE - II                                       | ELECTIVE               | THEORY             | 1                | 2               | 3              |
| 22EU202N           | Communicative English II- Academic Communication                                   | CORE                   | THEORY             | 2                | 2               | 3              |
| 22ELU204N          | Electronic Circuits                                                                | CORE                   | THEORY             | 3                | 2               | 3              |
| 22ELU205           | Electric Machines and Instruments                                                  | CORE                   | THEORY             | 3                | 2               | 3              |
| 22ELU206N          | Mathematics II for Electronics                                                     | CORE                   | THEORY             | 3                | 2               | 4              |
| 22ELU207N          | Practical I - Electric Circuits Lab (Skill Based)                                  | CORE                   | PRACTICAL          | 3                | 2               | 2              |
| 22ELU208N          | Practical II - Semiconductor Devices Lab (Skill Based)                             | CORE                   | PRACTICAL          | 3                | 2               | 2              |
| 23AECU201          | Ability Enhancement<br>Compulsory Course I -Values and Ethics for Human Excellence | CORE                   | THEORY             | 4                | 2               | 2              |
| 23PSEU201          | Professional Skill Enhancement-I                                                   | CORE                   | THEORY             | 4                | 2               | 2              |
| 23LAT303N          | Tamil - III                                                                        | ELECTIVE               | THEORY             | 1                | 3               | 3              |
| 23LAH303N          | Hindi - III                                                                        | ELECTIVE               | THEORY             | 1                | 3               | 3              |
| 23LAF303N          | French - III                                                                       | ELECTIVE               | THEORY             | 1                | 3               | 3              |
| 23EU303N           | Communicative English III - Developing English                                     | CORE                   | THEORY             | 2                | 3               | 3              |

|           |                                                           |          |           |   |   |   |
|-----------|-----------------------------------------------------------|----------|-----------|---|---|---|
|           | Language Skills through Literature                        |          |           |   |   |   |
| 23ELU309N | Digital Electronics                                       | CORE     | THEORY    | 3 | 3 | 4 |
| 23ELU310N | Digital and Linear ICs                                    | CORE     | THEORY    | 3 | 3 | 4 |
| 23ELU311N | C Programming (CM)                                        | CORE     | THEORY    | 3 | 3 | 2 |
| 23ELU312N | Practical III C Programming Lab (CM)                      | CORE     | PRACTICAL | 3 | 3 | 2 |
| 23ELU416N | Practical IV-Digital Electronics Lab (Skill Based)        | CORE     | PRACTICAL | 3 | 3 | 2 |
| 23ELU417N | Practical V-Electronic Circuits Lab (Skill Based)         | CORE     | PRACTICAL | 3 | 3 | 2 |
| 22AECU302 | Environmental Studies & Sustainable Development Goals     | CORE     | THEORY    | 4 | 3 | 2 |
| 23LAT404N | Tamil - IV                                                | ELECTIVE | THEORY    | 1 | 4 | 3 |
| 23LAH404N | Hindi - IV                                                | ELECTIVE | THEORY    | 1 | 4 | 3 |
| 23LAF404N | FRENCH - IV FRENCH LITERATURE & GRAMMAR - II              | ELECTIVE | THEORY    | 1 | 4 | 3 |
| 23EU404N  | Communicative English IV - Career English                 | CORE     | THEORY    | 2 | 4 | 3 |
| 23ELU413N | Electronic Communication-I                                | CORE     | THEORY    | 3 | 4 | 3 |
| 23ELU414N | Power Electronics                                         | CORE     | THEORY    | 3 | 4 | 3 |
| 23ELU415N | Python Programming and Applications                       | CORE     | THEORY    | 3 | 4 | 3 |
| 23ELU416N | Practical IV - Digital Electronics Lab (Skill Based)      | CORE     | PRACTICAL | 3 | 4 | 2 |
| 23ELU417N | Practical V - Electronic Circuits Lab (Skill Based)       | CORE     | PRACTICAL | 3 | 4 | 2 |
| 23ELU418N | Practical VI Python Programming Lab (Skill Based)         | CORE     | PRACTICAL | 3 | 4 | 2 |
| 22SECU401 | Skill Enhancement Course I- Information Security          | CORE     | THEORY    | 4 | 4 | 2 |
| 23PSEU402 | Professional Skill Enhancement II                         | CORE     | THEORY    | 4 | 4 | 2 |
| 23ELU519  | Electronic Communication II                               | CORE     | THEORY    | 3 | 5 | 4 |
| 23ELU520  | Industrial Automation                                     | CORE     | THEORY    | 3 | 5 | 5 |
| 23ELU521  | 8051 Microcontroller                                      | CORE     | THEORY    | 3 | 5 | 5 |
| 23ELU522A | Major Elective Course-I- Computer Hardware and Networking | CORE     | THEORY    | 3 | 5 | 4 |
| 23ELU628N | Practical VII Electronic Communication Lab                | CORE     | PRACTICAL | 3 | 5 | 2 |
| 23ELU629N | Practical VIII Industrial and Power Electronics Lab       | CORE     | PRACTICAL | 3 | 5 | 2 |
| 23ELU630N | Practical IX Embedded Systems Lab                         | CORE     | PRACTICAL | 3 | 5 | 2 |

|           |                                                 |      |           |   |   |   |
|-----------|-------------------------------------------------|------|-----------|---|---|---|
| 23ELU624  | VLSI Design                                     | CORE | THEORY    | 3 | 6 | 4 |
| 23ELU625  | PIC Microcontroller                             | CORE | THEORY    | 3 | 6 | 5 |
| 23ELU626  | Arduino and IoT                                 | CORE | THEORY    | 3 | 6 | 5 |
| 23ELU627A | Major Elective Course II -<br>Mobile Technology | CORE | THEORY    | 3 | 6 | 4 |
| 23ELU628  | Practical VII Electronic<br>Communication Lab   | CORE | PRACTICAL | 3 | 6 | 2 |
| 23ELU629  | Practical VIII Power<br>Electronics Lab         | CORE | PRACTICAL | 3 | 6 | 2 |
| 23ELU630  | Practical IX Embedded<br>System Lab             | CORE | PRACTICAL | 3 | 6 | 2 |
| 23ELU631  | Project / Innovation / Start-<br>up             | CORE | PROJECT   | 3 | 6 | 6 |