



SCHOOL OF ENGINEERING
SISTER NIVEDITA UNIVERSITY

DIPLOMA IN ELECTRONIC AND COMMUNICATION ENGINEERING
COURSE DURATION – 3 YEARS
6 SEMESTERS

| Definition of Category | Code | Credit |
|--|------|------------|
| Basic Science | BS | 21 |
| Engineering Science | ES | 30 |
| Professional Core | PC | 73 |
| Professional Elective (Discipline Specific) | PE | 6 |
| Humanities & Social Science including Management | HSM | 12 |
| Project Work / Seminar / Internship / Entrepreneurship | PSE | 12 |
| Mandatory / University Specified (Environmental Sc. / Induction Training / Indian Constitution / Foreign language) | MUS | 8 |
| Total | | 162 |

| COURSE CODE | SEMESTER 1 | | SEMESTER 2 | | SEMESTER 3 | | SEMESTER 4 | | SEMESTER 5 | | SEMESTER 6 | |
|-------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| | NO. | CREDIT | NO. | CREDIT | NO. | CREDIT | NO. | CREDIT | NO. | CREDIT | NO. | CREDIT |
| BS | 3 | 11 | 3 | 10 | - | - | - | - | - | - | - | - |
| ES | 4 | 12 | 4 | 10 | 2 | 8 | - | - | - | - | - | - |
| PC | - | - | - | - | 4 | 18 | 4 | 20 | 4 | 18 | 4 | 17 |
| PE | - | - | - | - | - | - | - | - | 1 | 3 | 1 | 3 |
| HSM | 1 | 3 | 2 | 6 | - | - | 1 | 3- | - | - | - | - |
| PSE | - | - | - | - | - | - | - | - | 1 | 5 | 2 | 7 |
| MUS | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | - | - | - | - |

SEMESTER 1

| S. No. | Subject | Course Code | Credit Theory | Credit Practical | Credit Tutorial | Total Credit |
|--------|-----------------------|-------------|---------------|------------------|-----------------|--------------|
| 1 | Communication Skill | HSM | 3 | - | - | 3 |
| 2 | Basic Physics | BS | 2 | 1 | - | 3 |
| 3 | Basic Chemistry | BS | 2 | 1 | - | 3 |
| 4 | Mathematics | BS | 4 | - | 1 | 5 |
| 5 | Engineering Mechanics | ES | 3 | - | 1 | 4 |
| 6 | Technical Drawing | ES | 2 | 2 | - | 4 |
| 7 | Computer Fundamentals | ES | - | 2 | - | 2 |
| 8 | Workshop Practice -I | ES | - | 2 | - | 2 |
| 9 | Foreign Language | MUS | 2 | - | - | 2 |
| | Total | | | | | 28 |

SEMESTER 2

| S. No. | Subject | Course Code | Credit Theory | Credit Practical | Credit Tutorial | Total Credit |
|--------|----------------------------------|-------------|---------------|------------------|-----------------|--------------|
| 1 | Business Economics & Accountancy | HSM | 3 | - | - | 3 |
| 2 | Applied Physics | BS | 2 | 1 | - | 3 |
| 3 | Applied Chemistry | BS | 2 | 1 | - | 3 |
| 4 | Engineering Mathematics | BS | 4 | - | - | 4 |
| 5 | Strength of Materials | ES | 3 | - | - | 3 |
| 6 | Electrical Technology | ES | 2 | - | - | 2 |
| 7 | Engineering Drawing | ES | 1 | 2 | - | 3 |
| 8 | Workshop Practice -II | ES | - | 2 | - | 2 |
| 9 | Development of Life Skill -I | HSM | 3 | - | - | 3 |
| 10 | Foreign Language | MUS | 2 | - | - | 2 |
| | Total | | | | | 28 |

SEMESTER 3

| S. No. | Subject | Course Code | Credit Theory | Credit Practical | Credit Tutorial | Total Credit |
|--------|-------------------------------|-------------|---------------|------------------|-----------------|--------------|
| 1 | Programming in C | ES | 3 | 2 | - | 5 |
| 2 | Network Analysis | PC | 3 | 2 | - | 5 |
| 3 | Analog Electronics -I | PC | 3 | 2 | - | 5 |
| 4 | Digital Logic Design | PC | 3 | 1 | - | 4 |
| 5 | Electronic Devices & Circuits | PC | 3 | 1 | - | 4 |
| 6 | Electrical Machine | ES | 2 | 1 | - | 3 |
| 7 | Foreign Language | MUS | 2 | - | - | 2 |
| | Total | | | | | 25 |

SEMESTER 4

| S. No. | Subject | Course Code | Credit Theory | Credit Practical | Credit Tutorial | Total Credit |
|--------|--------------------------------------|-------------|---------------|------------------|-----------------|--------------|
| 1 | Microprocessor & Programming | PC | 3 | 2 | - | 5 |
| 2 | Elementary Communication Engineering | PC | 3 | 2 | - | 5 |
| 3 | Analog Electronics –II | PC | 3 | 2 | - | 5 |
| 4 | Consumer Electronics | PC | 3 | 2 | - | 5 |
| 7 | Development of Life Skill -II | HSM | 3 | - | - | 3 |
| 8 | Foreign Language | MUS | 2 | - | - | 2 |
| | Total | | | | | 25 |

SEMESTER 5

| S. No. | Subject | Course Code | Credit Theory | Credit Practical | Credit Tutorial | Total Credit |
|---------------|---|--------------------|----------------------|-------------------------|------------------------|---------------------|
| 1 | Digital and Microwave Communication Engg. | PC | 3 | 2 | - | 5 |
| 2 | Electronics Measurement | PC | 3 | 1 | - | 4 |
| 3 | Industrial Electronics-I | PC | 2 | 2 | - | 4 |
| 4 | Microcontroller & Embedded System | PC | 3 | 2 | - | 5 |
| 5 | Computer Network-I | PE | 2 | 1 | - | 3 |
| | Digital Signal Processing-I | | | | - | |
| 6 | Industrial Project & Entrepreneurship Development | PSE | - | 5 | - | 5 |
| Total | | | | | | 26 |

SEMESTER 6

| S. No. | Subject | Course Code | Credit Theory | Credit Practical | Credit Tutorial | Total Credit |
|---------------|-----------------------------------|--------------------|----------------------|-------------------------|------------------------|---------------------|
| 1 | Industrial Management | PC | 3 | - | - | 3 |
| 2 | Advance Communication Engineering | PC | 3 | 2 | - | 5 |
| 3 | Instrumentation & Control | PC | 3 | 1 | - | 4 |
| 4 | Industrial Electronics-II | PC | 3 | 2 | - | 5 |
| 5 | Computer Network-II | PE | 2 | 1 | | 3 |
| 6 | Digital Signal Processing-II | | | | | |
| 7 | Industrial Project | PSE | - | - | 4 | 4 |
| 8 | General Viva-Voce | PSE | - | 3 | - | 3 |
| Total | | | | | | 27 |