## Diploma in Electronics & Telecommunication Engineering

| Eligibility | S.S.C with Work Experience |
|---|---|
| **Duration** | 1 - 3 Year |
| **Fees** | 27,500.00 |
| **Syllabus** | (see below) |

**SEM – I**

1. Basic Physics
2. Basic Chemistry
3. Basic Mathematics
4. English
5. Engineering Graphics

**SEM – II**

1. Applied Science ( Electronics)
2. Engineering Mathematics
3. Electronic Components & Application
4. Electronics Engineering
5. Communication Skills

**SEM – III**

1. Applied mathematics
2. Basic Electronics
3. Electrical Engineering
4. Principles of Digital Techniques
5. Industrial Measurements

**SEM – IV**

1. Applied Electronics
2. Linear Integrated Circuits
3. Digital Techniques & Microprocessor
4. Electronic Instruments & Measurements
5. Analogue Communication

**SEM – V**

1. Principles of Computer Architecture & Maintenance
2. Microcontrollers

   3. Digital Communication
   4. Industrial Electronics
   5. Maintenance of Electronic Equipments

### SEM – VI

1. Audio Video Engineering
2. Control Systems
3. Advance Communication System
4. Mobile Communication
5. Embedded System

| Bachelors Program in Electronics & Telecommunication Engineering | |
|---|---|
| **Eligibility** | 3 Years Diploma or HSC with 3 years Work Experience |
| **Duration** | 1 - 4 Year |
| **Fees** | 37,500.00 |
| **Syllabus** | ### SEM – I<br><br>1. Calculus<br>2. Physics<br>3. Mechanics of Solids<br>4. Engineering Graphics<br>5. English<br>6. Linear Algebra<br><br>### SEM – II<br><br>1. Chemistry<br>2. Environment & Energy Studies<br>3. Art of Programming<br>4. Elements of Electrical Engineering<br>5. Communication Skills<br>6. Electronics Devices & Circuits - I |

### SEM – III

1. Digital Circuits
2. Network Analysis
3. Linear Control System
4. Vector Calculus, Complex Variables & Differential Equations
5. Economics For Engineers
6. Ethics & Values

### SEM – IV

1. Probability Distributions & Numerical Methods
2. Signals & Systems
3. Electronics Devices & Circuits - II
4. Electrical Machines & Drives
5. Communication Systems
6. Electronics Design, Tools and Packages

### SEM -- V

1. Electromagnetic Engineering
2. Integrated Circuits and Applications
3. Microprocessor & Computer Architecture
4. Modern Measurement & Instrumentation
5. Digital Communication
6. Digital Signal Processing

### SEM -- VI

1. Microprocessor & Microcontroller
2. Law for Engineers
3. Digital System design
4. Antenna & Wave Propagation
5. Fiber Optic Communication
6. Digital Integrated Circuit Design

### SEM -- VII

1. System Modeling & Design
2. Estimation & Detection Theory
3. Telecom Networks
4. Analog Integrated Circuit Design
5. Modern Processor Architecture
6. Error Control Coding

### SEM -- VIII

1. Satellite Communication
2. Data Communication & Networking
3. Embedded Systems
4. Microwave Engineering
5. Wireless Communications
6. Wireless Sensor Networks

## Master Program in Electronics & Telecommunication Engineering

| | |
|---|---|
| **Eligibility** | Graduate or Diploma with 5 years Work Experience |
| **Duration** | 1 - 2 Year |
| **Fees** | 34,500.00 |
| **Syllabus** | **SEM – I**<br><br>1. Digital Communication Techniques<br>2. Adaptive Signal Processing<br>3. Antenna System Design<br>4. Wireless Networks<br>5. Statistical Signal Processing<br>6. Research Methodology<br>7. Data Compression & Standards<br><br>**SEM – II**<br><br>1. Embedded System Design<br>2. Information & Coding Theory<br>3. Satellite Communication<br>4. Telecom Network & Traffic Engineering<br>5. Speech & Image Processing<br>6. Wireless Sensor Networks & Protocols<br>7. RF IC Design |

### SEM – III

1. Analytical & Computational Electromagnetic
2. VLSI Signal Processing
3. Radar & Navigation Systems
4. RF Circuit Design
5. Wireless Communication
6. Optical Communication & Networks
7. DSP System & Architecture

### SEM – IV

1. Semiconductor Devices Physics & Modeling
2. Digital VLSI Design
3. Applied Algorithms for VLSI CAD
4. IC Fabrication Technology
5. Micro Electro - Mechanical System Design
6. Embedded Processor Design
7. Specialization