| SN | Name of Subject | CH Th | CH Pr | Marks | SN | Name of Subject | CH Th | CH Pr | Marks |
|---|---|---|---|---|---|---|---|---|---|
| **First Year** | | | | | | | | | |
| **1st Semester** | | | | | **2nd Semester** | | | | |
| 1 | Functional English | 2 | 0 | 50+00 | 1 | Linear Algebra & Analytical Geometry | 3 | 0 | 100+00 |
| 2 | Applied Calculus | 3 | 0 | 100+00 | 2 | Computer Programming | 2 | 1 | 50+50 |
| 3 | Introduction to Computers | 2 | 1 | 50+50 | 3 | Basic Electronic Engineering | 3 | 1 | 100+50 |
| 4 | Applied Physics | 3 | 1 | 100+50 | 4 | Circuit Analysis | 3 | 1 | 100+50 |
| 5 | Islamic studies | 2 | 0 | 50+00 | 5 | Communication Skills | 2 | 1 | 50+50 |
| 6 | Electronic Workshop | 0 | 1 | 00+50 | 6 | Computer Aided Engineering Design | 0 | 1 | 00+50 |
| | Total | 12 | 3 | 350+150 | | Total | 13 | 5 | 400+250 |
| **Second Year** | | | | | | | | | |
| **3rd Semester** | | | | | **4th Semester** | | | | |
| 1 | Electronic Circuit Design | 3 | 1 | 100+50 | 1 | Microprocessor and microcontrollers | 3 | 1 | 100+50 |
| 2 | Digital logic Design | 3 | 1 | 100+50 | 2 | Electromagnetic Field Theory | 3 | 0 | 100+00 |
| 3 | Instrumentation and Measurement. | 3 | 1 | 100+50 | 3 | Integrated Electronics | 3 | 1 | 100+50 |
| 4 | Differential Equations & Fourier Series | 3 | 0 | 100+00 | 4 | Electrical Machines | 3 | 1 | 100+50 |
| 5 | Pakistan studies | 2 | 0 | 50+00 | 5 | Complex Variables & Transforms | 3 | 0 | 100+00 |
| | Total | 14 | 3 | 450+150 | | Total | 15 | 3 | 500+150 |

# Third Year

## 5th Semester

| | | | | | | 6th Semester | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Signal and systems | 3 | 0 | 100+00 | 1 | Analog & Digital Communication | 3 | 1 | 100+50 |
| 2 | Economics and Engineering Management | 2 | 0 | 50+00 | 2 | Probability, Random Signals and Stochastic Processes | 3 | 0 | 100+00 |
| 3 | Embedded System Design | 3 | 1 | 100+50 | 3 | Digital Signal Processing | 3 | 1 | 100+50 |
| 4 | Wave Propagation and antennas | 3 | 1 | 100+50 | 4 | Control Systems | 3 | 1 | 100+50 |
| 5 | Numerical Analysis with Computer Applications | 3 | 1 | 100+50 | 5 | Professional & Social Ethics | 2 | 0 | 50+00 |
| | Total | 14 | 3 | 450+150 | | Total | 14 | 3 | 450+150 |

# Final Year

## 7th Semester

| | | | | | | 8th Semester | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Computer Communication & Networking | 3 | 1 | 100+50 | 1 | Advanced Communication Systems | 3 | 0 | 100+00 |
| 2 | Automation and Robotics | 3 | 1 | 100+50 | 2 | Laser and Fiber Optics | 3 | 1 | 100+50 |
| 3 | Power Electronics | 3 | 1 | 100+50 | 3 | Microelectronic Technology | 3 | 1 | 100+50 |
| 4 | Engineering Economic | 3 | 0 | 100+00 | 4 | Thesis Project-2 | 0 | 3 | 00+100 |
| 5 | Thesis Project-1 | 0 | 3 | 00+100 | | | | | |
| | Total | 12 | 6 | 400+250 | | Total | 9 | 5 | 300+200 |