

0242 B.Tech Electrical / Electronics

Shift : Morning

Duration : 4 years, 8 semesters, 135 credit hours

Eligibility : DAE (Electrical) or equivalent with at least 50% marks from any recognized Board

1st Semester

| Course | Course Title | Credit Hours |
|------------|-------------------------------|--------------|
| CSC-109 | Computer Fundamentals | 2 |
| CSC-109(L) | Computer Fundamentals | 1 |
| ET-111 | Electronic Devices & Circuits | 3 |
| ENG-112 | English Grammar | 3 |
| HUM-101 | Islamic Studies | 2 |
| MTS-113 | Applied Calculus-I | 3 |
| PHY-102 | Applied Physics | 3 |
| PHY-102(L) | Applied Physics | 1 |

3rd Semester

| Course | Course Title | Credit Hours |
|------------|---|--------------|
| CSC-201(3) | Digital Logic Design | 3 |
| CSC-201(L) | Digital Logic Design | 1 |
| ET-212 | Communication Systems | 3 |
| ET-213 | Control Technology | 3 |
| ENG-208 | Communication Skills & Technical Report Writing | 3 |

5th Semester

| Course | Course Title | Credit Hours |
|------------|--------------------------------------|--------------|
| CSC-317 | Data Communication & computer N/W | 3 |
| CSC-317(L) | Data Communication & computer N/W | 1 |
| ET-311 | VLSI Technology | 3 |
| ET-312 | Micro Processors & Micro Controllers | 3 |
| ET-313 | Signals & Systems | 3 |
| ET-313(L) | Signals & Systems | 1 |

7th Semester

| Course | Course Title | Credit Hours |
|---------|--|--------------|
| HUM-402 | Occupational Health Safety Environment | 2 |
| MGT-415 | Industrial Management | 3 |
| ET-499 | Mini Project- II | 3 |

2nd Semester

| Course | Course Title | Credit Hours |
|------------|---------------------------|--------------|
| CSC-113(2) | Computer programming | 2 |
| CSC-113(L) | Computer programming | 1 |
| ET-112 | Electrical Technology | 3 |
| ET-212 | Instruments & Measurement | 3 |
| HUM-102 | Pakistan Studies | 2 |
| HUM-108 | Professional Ethics | 2 |
| MTS-114 | Applied Calculus-II | 3 |

4th Semester

| Course | Course Title | Credit Hours |
|---------|------------------------------|--------------|
| ET-221 | Electrical Circuits Analysis | 3 |
| ET-222 | Electromagnetic Field Theory | 3 |
| ET-223 | Probability & Random Signals | 2 |
| ET-224 | Industrial Electronics | 3 |
| MTS-214 | Linear Algebra | 3 |

6th Semester

| Course | Course Title | Credit Hours |
|--------|----------------------------|--------------|
| ET-321 | FPGA Based System Design | 3 |
| ET-322 | Automation & Robotics | 3 |
| ET-323 | Antenna & Wave Propagation | 3 |
| ET-499 | Mini Project- I | 3 |

8th Semester

| Course | Course Title | Credit Hours |
|--------|-------------------------------|--------------|
| ET-401 | Supervise Industrial Training | 36 |