

## Electronics and Communication Engineering

### 1. Course Structure

#### Humanities and Social Sciences

**18 (15:0:3)**

	<b>L:T:P</b>	<b>Credits</b>
1. English	2:0:1	3
2. Professional Communication	1:0:2	3
3. Organizations	3:0:0	3
4. Economic Citizenship	3:0:0	3
5. Energy and Entropy	3:0:0	3
6. Complexity	3:0:0	3

#### Basic Sciences

**28 (21:4:3)**

	<b>L:T:P</b>	<b>Credits</b>
1. Engineering Physics	3:0:1	4
2. Engineering Chemistry	3:0:1	4
3. Problem Solving through Programming	3:0:1	4
4. Differential Equations	3:1:0	4
5. Statistics	3:1:0	4
6. Functions of Several Variables	3:1:0	4
7. Partial Differential Equations	3:1:0	4

#### Engineering Sciences

**26(19:2:5)**

	<b>L:T:P</b>	<b>Credits</b>
1. Workshop	0:0:1	1
2. Engineering Drawing	1:0:2	3
3. Ecology and Environment	3:0:0	3
4. Measurements and Instrumentation	3:0:1	4
5. Engineering Materials	3:0:0	3
6. Electronic and Communication Systems	3:0:1	4
7. Electromagnetics	3:1:0	4
8. Linear Electrical Networks	3:1:0	4

**Professional Subject Core****54(42:0:12)**

	<b>L:T:P</b>	<b>Credits</b>
1. Analog Circuits and Systems	3:0:1	4
2. Functional Design of Digital Systems	3:0:1	4
3. Microcontrollers and Microprocessors	3:0:1	4
4. Signal Processing	3:0:1	4
5. Digital Signal Processing	3:0:1	4
6. Designing with PLDs and FPGAs	3:0:1	4
7. Power Supplies and Power Amplifiers	3:0:1	4
8. Microelectronics Systems Packaging	3:0:1	4
9. CMOS VLSI Systems	3:0:1	4
10. Analog and Digital Communication Systems	3:0:1	4
11. Antenna and Wave Propagation	3:0:1	4
12. Computer Networks	3:0:1	4
13. Wireless Communication Systems	3:0:0	3
14. Control Systems	3:0:0	3

**Professional Subject Electives****18 Credits**

	<b>L:T:P</b>	<b>Credits</b>
1. Mobile Communication Systems	3:0:0	3
2. Digital Switching Systems	3:0:0	3
3. Wireless Sensor Networks	3:0:0	3
4. Satellite Communication	3:0:0	3
5. Optical Communication	3:0:0	3
6. Data Compression	3:0:0	3
7. Information Theory and Coding	3:0:0	3
8. Spread Spectrum Techniques	3:0:0	3
9. Image Processing	3:0:0	3
10. Adaptive Signal Processing	3:0:0	3
11. Digital Signal Processors	3:0:0	3
12. Embedded Systems	3:0:0	3
13. Mixed Signal Circuits and Systems	3:0:0	3
14. Low Power VLSI Design	3:0:0	3
15. ASIC Design	3:0:0	3
16. Consumer Electronics	2:0:1	3

**Open Electives****9 Credits**

	<b>L:T:P</b>	<b>Credits</b>
1. Micro Electromechanical Systems	3:0:0	3
2. Robotics	3:0:0	3
3. Multimedia Communications	3:0:0	3
4. Social Networks	3:0:0	3

