

**ANNA UNIVERSITY TIRUCHIRAPPALLI**  
**Tiruchirappalli - 620 024**  
**Curriculum 2007**

**B.E. Electronics and Communication Engineering**

**SEMESTER III**

| S.No.            | Subject Code | Subject                               | L | T | P | Max. Marks |
|------------------|--------------|---------------------------------------|---|---|---|------------|
| <b>Theory</b>    |              |                                       |   |   |   |            |
| 1                |              | Mathematics III                       | 3 | 1 | 0 | 100        |
| 2                |              | Circuit Analysis                      | 3 | 1 | 0 | 100        |
| 3                |              | Electronic Devices                    | 3 | 1 | 0 | 100        |
| 4                |              | Digital System Design                 | 3 | 1 | 0 | 100        |
| 5                |              | Data Structures                       | 3 | 0 | 0 | 100        |
| 6                |              | Environmental Science and Engineering | 3 | 0 | 0 | 100        |
| <b>Practical</b> |              |                                       |   |   |   |            |
| 7                |              | Electronic Devices Laboratory         | 0 | 0 | 3 | 100        |
| 8                |              | Digital System Design Laboratory      | 0 | 0 | 3 | 100        |
| 9                |              | Data Structures Laboratory            | 0 | 0 | 3 | 100        |

**SEMESTER IV**

| S.No.            | Subject Code | Subject                                        | L | T | P | Max. Marks |
|------------------|--------------|------------------------------------------------|---|---|---|------------|
| <b>Theory</b>    |              |                                                |   |   |   |            |
| 1                |              | Random Processes                               | 3 | 1 | 0 | 100        |
| 2                |              | Electronic Circuits                            | 3 | 1 | 0 | 100        |
| 3                |              | Linear Integrated Circuits                     | 3 | 0 | 0 | 100        |
| 4                |              | Signals and Systems                            | 3 | 1 | 0 | 100        |
| 5                |              | Electromagnetic Fields                         | 3 | 1 | 0 | 100        |
| 6                |              | Electrical Machines                            | 3 | 0 | 0 | 100        |
| <b>Practical</b> |              |                                                |   |   |   |            |
| 7                |              | Electronics Circuits and Simulation Laboratory | 0 | 0 | 3 | 100        |
| 8                |              | Linear Integrated Circuits Laboratory          | 0 | 0 | 3 | 100        |
| 9                |              | Electrical Machines Laboratory                 | 0 | 0 | 3 | 100        |

### SEMESTER V

| S.No.            | Subject Code | Subject                                         | L | T | P | Max. Marks |
|------------------|--------------|-------------------------------------------------|---|---|---|------------|
| <b>Theory</b>    |              |                                                 |   |   |   |            |
| 1                |              | Numerical Methods                               | 3 | 1 | 0 | 100        |
| 2                |              | Microprocessors and Microcontrollers            | 3 | 1 | 0 | 100        |
| 3                |              | Communication Systems                           | 3 | 0 | 0 | 100        |
| 4                |              | Digital Signal Processing                       | 3 | 1 | 0 | 100        |
| 5                |              | Transmission Lines and Waveguides               | 3 | 0 | 0 | 100        |
| 6                |              | Control Systems                                 | 3 | 1 | 0 | 100        |
| <b>Practical</b> |              |                                                 |   |   |   |            |
| 7                |              | Microprocessors and Microcontrollers Laboratory | 0 | 0 | 3 | 100        |
| 8                |              | Digital Signal Processing Laboratory            | 0 | 0 | 3 | 100        |
| 9                |              | Communication and Soft Skills Laboratory        | 0 | 0 | 3 | 100        |

### SEMESTER VI

| S.No.            | Subject Code | Subject                          | L | T | P | Max. Marks |
|------------------|--------------|----------------------------------|---|---|---|------------|
| <b>Theory</b>    |              |                                  |   |   |   |            |
| 1                |              | Measurements and Instrumentation | 3 | 0 | 0 | 100        |
| 2                |              | Digital Communication Techniques | 3 | 1 | 0 | 100        |
| 3                |              | Computer Networks                | 3 | 0 | 0 | 100        |
| 4                |              | Antennas and Wave Propagation    | 3 | 1 | 0 | 100        |
| 5                |              | Computer Architecture            | 3 | 0 | 0 | 100        |
| 6                |              | VLSI Design                      | 3 | 0 | 0 | 100        |
| <b>Practical</b> |              |                                  |   |   |   |            |
| 7                |              | Digital Communication Laboratory | 0 | 0 | 3 | 100        |
| 8                |              | Networks Laboratory              | 0 | 0 | 3 | 100        |
| 9                |              | VLSI Design Laboratory           | 0 | 0 | 3 | 100        |

## SEMESTER VII

| S.No.            | Subject Code | Subject                             | L | T | P | Max. Marks |
|------------------|--------------|-------------------------------------|---|---|---|------------|
| <b>Theory</b>    |              |                                     |   |   |   |            |
| 1                |              | Embedded Systems                    | 3 | 0 | 0 | 100        |
| 2                |              | Optical Communication and Networks  | 3 | 0 | 0 | 100        |
| 3                |              | Microwave Engineering               | 3 | 0 | 0 | 100        |
| 4                |              | Total Quality Management            | 3 | 0 | 0 | 100        |
| 5                |              | Elective I                          | 3 | 0 | 0 | 100        |
| 6                |              | Elective II                         | 3 | 0 | 0 | 100        |
| <b>Practical</b> |              |                                     |   |   |   |            |
| 7                |              | Embedded Systems Laboratory         | 0 | 0 | 3 | 100        |
| 8                |              | Optical and Microwave Laboratory    | 0 | 0 | 3 | 100        |
| 9                |              | Electronic System Design Laboratory | 0 | 0 | 3 | 100        |

## SEMESTER VIII

| S.No.            | Subject Code | Subject                                  | L | T | P  | Max. Marks |
|------------------|--------------|------------------------------------------|---|---|----|------------|
| <b>Theory</b>    |              |                                          |   |   |    |            |
| 1                |              | Mobile and Wireless Communication        | 3 | 0 | 0  | 100        |
| 2                |              | Telecommunication Switching and Networks | 3 | 0 | 0  | 100        |
| 3                |              | Elective III                             | 3 | 0 | 0  | 100        |
| 4                |              | Elective IV                              | 3 | 0 | 0  | 100        |
| <b>Practical</b> |              |                                          |   |   |    |            |
| 5                |              | Project Work                             | 0 | 0 | 12 | 200        |

## LIST OF ELECTIVES

### ODD SEMESTER

| S.No. | Subject Code | Subject                                        | L | T | P | Max. Marks |
|-------|--------------|------------------------------------------------|---|---|---|------------|
| 1     |              | Medical Electronics                            | 3 | 0 | 0 | 100        |
| 2     |              | Operating Systems                              | 3 | 0 | 0 | 100        |
| 3     |              | Solid State Electronic Devices                 | 3 | 0 | 0 | 100        |
| 4     |              | Speech Processing                              | 3 | 0 | 0 | 100        |
| 5     |              | Advanced Microprocessors                       | 3 | 0 | 0 | 100        |
| 6     |              | Internet and Java Programming                  | 3 | 0 | 0 | 100        |
| 7     |              | Computer Hardware and Interfacing              | 3 | 0 | 0 | 100        |
| 8     |              | Advanced Digital Signal Processing             | 3 | 0 | 0 | 100        |
| 9     |              | Electromagnetic Interference and Compatibility | 3 | 0 | 0 | 100        |
| 10    |              | High Speed Networks                            | 3 | 0 | 0 | 100        |
| 11    |              | Power Electronics                              | 3 | 0 | 0 | 100        |
| 12    |              | Television and Video Engineering               | 3 | 0 | 0 | 100        |
| 13    |              | Soft Computing                                 | 3 | 0 | 0 | 100        |

### EVEN SEMESTER

| S.No. | Subject Code | Subject                                          | L | T | P | Max. Marks |
|-------|--------------|--------------------------------------------------|---|---|---|------------|
| 1     |              | Digital Image Processing                         | 3 | 0 | 0 | 100        |
| 2     |              | Wireless Networks                                | 3 | 0 | 0 | 100        |
| 3     |              | Satellite Communication                          | 3 | 0 | 0 | 100        |
| 4     |              | Advanced Electronic System Design                | 3 | 0 | 0 | 100        |
| 5     |              | Optoelectronic Devices                           | 3 | 0 | 0 | 100        |
| 6     |              | Telecommunication System Modeling and Simulation | 3 | 0 | 0 | 100        |
| 7     |              | Radar and Navigational Aids                      | 3 | 0 | 0 | 100        |
| 8     |              | Remote Sensing                                   | 3 | 0 | 0 | 100        |
| 9     |              | Engineering Acoustics                            | 3 | 0 | 0 | 100        |
| 10    |              | Intellectual Property Rights                     | 3 | 0 | 0 | 100        |
| 11    |              | Indian Constitution and Society                  | 3 | 0 | 0 | 100        |
| 12    |              | Professional Ethics and Human Values             | 3 | 0 | 0 | 100        |