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| ***Scheme of Subjects*: N.B.K.R.INSTITUTE OF SCIENCE & TECHNOLOGY (AUTONOMOUS)*****Department: Electronics & Communications Engineering*** |
|  **First B.Tech** | **Second B.Tech** | **Third B.Tech** | **Fourth B.Tech** |
| **First Semester** | **First Semester** | **First Semester** |
| **Theory** |  **Theory** |  **Theory** |  **Theory** |
| 1. English2. Engg. Mathematics-I3. Engg. Mathematics-II4. Engg. Physics5. Engg. Chemistry6. Computer Programming &  Data Structures7. Basic Electrical Sciences | 1. Engineering Mathematics-III\*\*2. Signals and Systems\*\*3. Electronic Devices & Circuits\*\*4. Electro-Magnetic Fields5. Circuits and Networks 6. Electrical Technology  | 1. Linear Control Systems\*\* 2. Electronic Measurements &  Instrumentation 3. Digital Communications  4. Analog IC Applications\*\*5. Antennas and Wave Propagation6. Environmental Studies\*\* | 1. Digital Signal Processing\*\*2. Radar Engineering5. VLSI Design 4. Management science\*\*5.Embedded Systems 6. Elective-II  |
| **Labs** | **Labs** | **Labs** | **Labs** |
| 1. English Language  Laboratory2. Workshop3. Programming  Laboratory | 1. Electronic Devices Lab2. Electrical Technology Lab | 1. Pulse and Digital Circuits Lab2. Advanced Communication Skills Lab | 1. Microprocessor & Applications Lab2. Microwave and Optical  Communications Lab |
| **Second Semester** | **Second Semester** | **Second Semester** |
| **Theory** | **Theory** | **Theory** |
| 1. Engineering Mathematics – IV\*\*2. Switching Theory & Logic Design\*\*3. Random Signals & Stochastic  Process4. Analog Communications5. Pulse & Analog Circuits\*\*6. Economics & Accountancy\*\* | 1. Microprocessor and Interfacing\*\*2. Microwave Techniques3. Optical Communication  4. Digital Design5. Computer organization 6. Elective – I | 1. Digital Image Processing2. Satellite Communication 3. Elective-III |
| **Labs** |  **Labs** | **Labs/Project** |
| 1. Electronic Circuits lab2. Circuits and Networks lab | 1.Analog &Digital Communication Lab2. IC Applications Lab  | 1. DSP Lab2. Project Work |
| **Elective-I** | **Elective-II** | **Elective-III** |
| 1. Neural Networks & Fuzzy Logic2. Data Base Management Systems 3. Optoelectronics4. Operating Systems  |  1. Advanced Microprocessors & Micro Controllers  2. Computer Networks  3. Data &Computer Communication 4. TV Engineering | 1. DSP Processors2. IC Fabrication Technology3. Cellular Mobile Communications 4.Digital Control Systems |

*\*\* Common to EEE & ECE*