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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. English  2. Engg. Mathematics-I  3. Engg. Mathematics-II  4. Engg. Physics  5. Engg. Chemistry  6. Computer Programming &  Data Structures  7. Basic Electrical Sciences | 1. Engineering Mathematics-III\*\*  2. Signals and Systems\*\*  3. Electronic Devices & Circuits\*\*  4. Electro-Magnetic Fields  5. 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 Propagation  6. Environmental Studies\*\* | | 1. Digital Signal Processing\*\*  2. Radar Engineering  5. VLSI Design  4. Management science\*\*  5.Embedded Systems  6. Elective-II |
| **Labs** | **Labs** | | **Labs** | | **Labs** |
| 1. English Language  Laboratory  2. Workshop  3. Programming  Laboratory | 1. Electronic Devices Lab  2. Electrical Technology Lab | | 1. Pulse and Digital Circuits Lab  2. Advanced Communication Skills Lab | | 1. Microprocessor & Applications Lab  2. 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  Process  4. Analog Communications  5. Pulse & Analog Circuits\*\*  6. Economics & Accountancy\*\* | | 1. Microprocessor and Interfacing\*\*  2. Microwave Techniques  3. Optical Communication  4. Digital Design  5. Computer organization  6. Elective – I | | 1. Digital Image Processing  2. Satellite Communication  3. Elective-III |
| **Labs** | | **Labs** | | **Labs/Project** |
| 1. Electronic Circuits lab  2. Circuits and Networks lab | | 1.Analog &Digital Communication Lab  2. IC Applications Lab | | 1. DSP Lab  2. Project Work |
| **Elective-I** | | **Elective-II** | | **Elective-III** | |
| 1. Neural Networks & Fuzzy Logic  2. Data Base Management Systems  3. Optoelectronics  4. Operating Systems | | 1. Advanced Microprocessors & Micro Controllers  2. Computer Networks  3. Data &Computer Communication  4. TV Engineering | | 1. DSP Processors  2. IC Fabrication Technology  3. Cellular Mobile Communications  4.Digital Control Systems | |

*\*\* Common to EEE & ECE*