

**III/IV B.TECH SEM-I REGULAR (R-20)**  
**BRANCH WISE SUBJECT CODES & SUBJECT NAMES**

| SUBJECT CODE<br>(CHEMICAL) | SUBJECT NAME                                     |
|----------------------------|--|
| CHE311                     | Python Programming (Open Elective- I)            |
| CHE312                     | Chemical Engineering Thermodynamics              |
| CHE313                     | Heat Transfer                                    |
| CHE314                     | Mass Transfer — I                                |
| CHE315                     | Chemical Technology                              |
| CHE317                     | Heat Transfer Lab                                |
| CHE318                     | Chemical Technology Lab                          |
| CHE319                     | Quantitative Aptitude — I & Soft Skills          |
| CHE316A                    | Fertilizer Technology (Professional Elective-II) |

| SUBJECT CODE<br>(CIVIL) | SUBJECT NAME                                   |
|-------------------------|--|
| CIV311                  | Python Programming (Open Elective- I)          |
| CIV312                  | Fluid Mechanics-II                             |
| CIV313                  | Geotechnical Engineering — II                  |
| CIV314                  | Reinforced Concrete Structures-I               |
| CIV315                  | Structural Analysis — II                       |
| CIV316                  | Computer Applications in Civil Engineering Lab |
| CIV317                  | Fluid Mechanics Lab                            |
| CIV318                  | Technical Seminar                              |
| CIV319                  | Quantitative Aptitude-I & Verbal Aptitude-I    |
| CIV3110                 | Summer Internship                              |

| SUBJECT CODE<br>(CSD) | SUBJECT NAME                           |
|-----------------------|--|
| CSD 311               | BLOCK CHAIN (OPEN ELECTIVE-I)          |
| CSD 312               | ADVANCED DATA STRUCTURES (PROFESSIONAL |
| CSD 313               | DATA ANALYSIS & VISUALIZATION          |
| CSD 314               | COMPETITIVE PROGRAMMING                |
| CSD 315               | DATA BASE MANAGEMENT SYSTEMS           |
| CSD 316               | DATA SCIENCE WITH PYTHON LAB           |
| CSD 317               | DATA BASE MANAGEMENT SYSTEMS LAB       |
| CSD 318               | COMPETITIVE PROGRAMMING LAB            |
| CSD 319               | QA-I & SOFTSKILLS                      |
| CSD 31A               | SUMMER INTERNSHIP - INDUSTRY           |

| SUBJECT CODE<br>(CSE) | SUBJECT NAME  |
|-----------------------|---|
| CSE 311               | ESSENTIALS OF PYTHON (OPEN ELECTIVE-I)                |
| CSE 312 A             | ARTIFICIAL INTELLIGENCE<br>(PROFESSIONAL ELECTIVE -I) |
| CSE 312 B             | ADVANCED DATA STRUCTURES (PROFESSIONAL                |
| CSE 313               | COMPETITIVE PROGRAMMING                               |
| CSE 314               | COMPILER DESIGN                                       |
| CSE 315               | DATA BASE MANAGEMENT SYSTEMS                          |
| CSE 316               | DESIGN & ANALYSIS OF ALGORITHMS                       |
| CSE 317               | DATA BASE MANAGEMENT SYSTEMS LAB                      |
| CSE 318               | COMPETITIVE PROGRAMMING LAB                           |
| CSE 319               | QA-I & SOFT SKILLS                                    |
| CSE31A                | SUMMER INTERNSHIP-INDUSTRY-I                          |

| SUBJECT CODE<br>(CSM) | SUBJECT NAME                                       |
|-----------------------|--|
| CSM 311               | Block Chain (Open Elective- I)                     |
| CSM 312               | ADVANCED DATA STRUCTURES (Professional Elective-I) |
| CSM 313               | MACHINE LEARNING                                   |
| CSM 314               | COMPETITIVE PROGRAMMING                            |
| CSM 315               | DATA BASE MANAGEMENT SYSTEMS                       |
| CSM 316               | MACHINE LEARNING LAB                               |
| CSM 317               | DATA BASE MANAGEMENT SYSTEMS LAB                   |
| CSM 318               | COMPETITIVE PROGRAMMING LAB                        |
| CSM 319               | QA-I & SOFTSKILLS                                  |
| CSM 31A               | SUMMER INTERNSHIP - INDUSTRY                       |

| SUBJECT CODE<br>(ECE) | SUBJECT NAME   |
|-----------------------|--|
| ECE311                | Python Programming (Open Elective- I)                                    |
| ECE312A               | Electronic Measurements and Instrumentation<br>(Professional Elective-I) |
| ECE313                | Digital communications   |
| ECE314                | Embedded Systems and IOT   |
| ECE315                | Integrated Circuits and Applications                                     |
| ECE316                | Antennas and Propagation   |
| ECE317                | Quantitative Aptitude & Verbal Aptitude-I                                |
| ECE318                | Embedded systems and IOT lab   |
| ECE319                | AC& DC Laboratory  |
| ECE320                | Internship-I   |
| ECE312B               | Microelectronics (Professional Elective-I)                               |

| SUBJECT CODE<br>(EEE) | SUBJECT NAME                                      |
|-----------------------|---|
| EEE311                | Python Programming (Open Elective-I)              |
| EEE 312               | Embedded Systems                                  |
| EEE 313               | Pulse, Digital and Integrated Circuits            |
| EEE 314               | Linear Control Systems                            |
| EEE 315               | Performance of Induction and Synchronous Machines |
| EEE 316               | Power Transmission and Distribution               |
| EEE 317               | Quantitative Aptitude & Verbal Aptitude-I         |
| EEE 319               | Embedded Systems Lab                              |
| EEE 3110              | Electronics Lab-II                                |
| EEE 3111              | Summer Internship                                 |

| SUBJECT CODE<br>(IT) | SUBJECT NAME  |
|----------------------|---|
| IT311                | Advanced Python Programming for Emerging Applications (Open |
| IT312                | Computer Networks   |
| IT313                | Automata theory and compiler design                         |
| IT314                | Data Warehousing and Data Mining (Professional Elective-I)  |
| IT315                | Artificial Intelligence                                     |
| IT316                | QA-1&VA-1   |
| IT317                | UML and Testing Tools Lab                                   |
| IT318                | Computer Networks Lab                                       |
| IT319                | Web Technologies Lab  |
| IT320                | Internship-I  |
| IT314B               | Embedded Systems (Professional Elective-I)                  |

| SUBJECT CODE<br>(MECHANICAL) | SUBJECT NAME  |
|------------------------------|---|
| MEC 311                      | Python Programming (Open Elective- I)                       |
| MEC 312                      | Industrial Engineering and Management (Humanities Elective) |
| MEC 313                      | Design Thinking   |
| MEC 314                      | Dynamics of Machinery                                       |
| MEC 315                      | Applied Thermal Engineering-II                              |
| MEC 316                      | Design of Machine Elements-I                                |
| MEC 317                      | Kinematics and Dynamics of Machinery Lab                    |
| MEC 318                      | Thermal Engineering Lab                                     |
| MEC 319                      | Quantitative Aptitude-I &                                   |