

Program Structure: B. Tech - Computer Science Engineering (Blockchain)

I Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|---|-----------|----------|----------|----------------|-----------|
| 1. | BT CSB 1101 | Fundamentals of Computing | 3 | 0 | 2 | 5 | 4 |
| 2. | BT CSB 1102 | Fundamentals of Programming | 3 | 0 | 2 | 5 | 4 |
| 3. | BT CSB 1103 | Mathematics I | 3 | 1 | 0 | 4 | 4 |
| 4. | BT CSB 1104 | Effective Communication I | 3 | 0 | 0 | 3 | 3 |
| 5. | BT CSB 1105 | Performing Arts/Sports/Music/Language I | 1 | 0 | 2 | 3 | 2 |
| TOTAL | | | 13 | 1 | 6 | 20 | 17 |

II Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|--|-----------|----------|----------|----------------|-----------|
| 1. | BT CSB 1201 | Engineering Mechanics | 2 | 1 | 0 | 3 | 3 |
| 2. | BT CSB 1202 | Physics | 3 | 0 | 0 | 3 | 3 |
| 3. | BT CSB 1203 | Mathematics II | 3 | 1 | 0 | 4 | 4 |
| 4. | BT CSB 1204 | Engineering Realization | 0 | 0 | 2 | 2 | 2 |
| 5. | BT CSB 1205 | Effective Communication II | 3 | 0 | 0 | 3 | 3 |
| 6. | BT CSB 1206 | Performing Arts/Sports/Music/Language II | 1 | 0 | 2 | 3 | 2 |
| TOTAL | | | 12 | 2 | 4 | 18 | 17 |

III Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|---|-----------|----------|----------|----------------|-----------|
| 1. | BT CSB 2101 | Probability, Statistics, and Stochastic Processes | 3 | 1 | 0 | 4 | 4 |
| 2. | BT CSB 2102 | Signals and Systems | 3 | 1 | 0 | 4 | 4 |
| 3. | BT CSB 2103 | Maths for Computing | 3 | 0 | 0 | 3 | 3 |
| 4. | BT CSB 2104 | Data Structures and Algorithms | 3 | 0 | 2 | 5 | 4 |
| 5. | BT CSB 2105 | Foundations of Quantum Information Processing (Program Linked Science Elective) | 3 | 0 | 0 | 3 | 3 |
| 6. | BT CSB 2106 | Intro. To Profession | 0 | 2 | 2 | 4 | 1 |
| TOTAL | | | 15 | 4 | 4 | 23 | 19 |

IV Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|--|-----------|----------|-----------|----------------|-----------|
| 1. | BT CSB 2201 | Pattern Recognition and Machine Learning | 3 | 0 | 2 | 5 | 4 |
| 2. | BT CSB 2202 | Software Engineering | 3 | 0 | 2 | 5 | 4 |
| 3. | BT CSB 2203 | Human-Machine Interaction | 0 | 0 | 4 | 4 | 2 |
| 4. | BT CSB 2204 | Digital Design | 2 | 0 | 2 | 4 | 3 |
| 5. | BT CSB 2205 | Humanities I | 3 | 0 | 0 | 3 | 3 |
| TOTAL | | | 11 | 0 | 10 | 21 | 16 |

V Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|-------------------------------------|-----------|----------|----------|----------------|-----------|
| 1. | BT CSB 3101 | Design and Analysis of Algorithms | 3 | 1 | 0 | 4 | 4 |
| 2. | BT CSB 3102 | Computer Architecture | 3 | 0 | 0 | 3 | 3 |
| 3. | BT CSB 3103 | Principles of Programming Languages | 3 | 0 | 0 | 3 | 3 |
| 4. | BT CSB 3104 | Database Systems | 3 | 0 | 2 | 5 | 4 |
| 5. | BT CSB 3105 | Humanities II | 3 | 0 | 0 | 3 | 3 |
| 6. | BT CSB 3106 | Professional Ethics I | 0 | 1 | 0 | 1 | 1 |
| TOTAL | | | 15 | 1 | 2 | 19 | 18 |

VI Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|-------------------------|-----------|----------|-----------|----------------|-----------|
| 1. | BT CSB 3201 | Cyber Security | 3 | 0 | 2 | 5 | 4 |
| 2. | BT CSB 3202 | Computer Networks | 3 | 0 | 2 | 5 | 4 |
| 3. | BT CSB 3203 | Operating Systems | 3 | 0 | 2 | 5 | 4 |
| 4. | BT CSB 3204 | Digital Systems Lab | 0 | 0 | 2 | 2 | 1 |
| 5. | BT CSB 3205 | CS Elective Core | 3 | 0 | 0 | 3 | 3 |
| 6. | BT CSB 3207 | Programme/Open Elective | 3 | 0 | 0 | 3 | 3 |
| 7. | BT CSB 3208 | Professional Ethics II | 0 | 0 | 2 | 2 | 1 |
| 8. | BT CSB 3209 | Colloquium | 1 | 0 | 0 | 1 | 1 |
| TOTAL | | | 16 | 0 | 10 | 26 | 21 |

VII Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|-------------------------|-----------|----------|----------|----------------|-----------|
| 1. | BT CSB 4101 | B. Tech. Project - I | 0 | 0 | 6 | 6 | 3 |
| 2. | BT CSB 4102 | CS Elective Core | 3 | 0 | 0 | 3 | 3 |
| 3. | BT CSB 4103 | Programme/Open Elective | 3 | 0 | 0 | 3 | 3 |
| 4. | BT CSB 4104 | Environmental Science | 2 | 0 | 0 | 2 | 2 |
| 5. | BT CSB 4105 | Dissertation - I | 10 | 0 | 0 | 10 | 10 |
| TOTAL | | | 16 | 0 | 6 | 24 | 21 |

VIII Semester

| S. No. | Course Code | Course Title | L | T | P | Contact Hrs/Wk | Credits |
|--------------|-------------|-------------------------|-----------|----------|----------|----------------|-----------|
| 1. | BT CSB 4201 | B. Tech. Project - II | 0 | 0 | 6 | 6 | 3 |
| 2. | BT CSB 4202 | Humanities III | 3 | 0 | 0 | 3 | 3 |
| 3. | BT CSB 4203 | Programme/Open Elective | 5 | 0 | 0 | 5 | 5 |
| 4. | BT CSB 4204 | Dissertation - II | 10 | 0 | 0 | 10 | 10 |
| TOTAL | | | 18 | 0 | 6 | 24 | 21 |

TOTAL NO. OF CREDITS = 150

Note: Selection of open electives, projects, and dissertations based on the specializations.