

Bachelor of Technology in Computer Science and Engineering (Blockchain)

School of Computer Science and Engineering

| Programme Credit Structure | | Credits | | | | | | | |
|----------------------------------------------|-----------------------------------------------------------------------------|--------------|---|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---|----|---|
| University Core Courses | | 80 | | | CSE2008 | Operating Systems | 3 | 2 | 4 |
| Programme Core Courses | | 40 | | | CSE1005 | Software Engineering | 3 | 2 | 4 |
| Programme Elective / Specialization Elective | | 20 | | | CSE3002 | Artificial Intelligence | 3 | 2 | 4 |
| University Elective | | 20 | | | CSE2007 | Database Management Systems | 3 | 2 | 4 |
| Total Graded Credit Requirement | | 160 | | | CSE3003 | Computer Networks | 3 | 2 | 4 |
| University Core | | 80 | | | ECE2002 | Computer Architecture and Organization | 4 | 0 | 4 |
| Course Code | | Course Title | T | P | C | Specialization Electives | | 20 | |
| MAT1001 | Calculus for Engineers | 3 | 2 | 4 | CSE1007 | Introduction to Cryptography [Compulsory] | 3 | 2 | 4 |
| MAT1002 | Applications of Differential and Difference Equations | 4 | 0 | 4 | CSE1021 | Foundations of Blockchain Technology [Compulsory] | 3 | 2 | 4 |
| MATXXXX | Probability and Statistics | 3 | 2 | 4 | CSE2024 | Blockchain Architecture Design | 3 | 2 | 4 |
| PHY1008 | Modern Physics | 3 | 2 | 4 | CSE3036 | Cryptocurrency Technologies and Bitcoin | 3 | 2 | 4 |
| CHY1009 | Chemistry and Environmental Studies | 3 | 2 | 4 | CSE3035 | Blockchain and Distributed Ledger Technology | 3 | 2 | 4 |
| CSE1012 | Problem Solving using Python | 3 | 2 | 4 | CSE3005 | Distributed Systems | 3 | 2 | 4 |
| CSE2005 | Object Oriented Programming using JAVA | 3 | 2 | 4 | CSE3037 | Public Key Infrastructure & Trust Management | 3 | 2 | 4 |
| CSE2001 | Data Structures and Algorithms | 3 | 2 | 4 | CSE3013 | Secure Group Communications | 3 | 2 | 4 |
| ECE1002 | Fundamentals of Electrical and Electronics Engineering | 3 | 2 | 4 | CSE3038 | Smart Contracts | 3 | 2 | 4 |
| ENG1001/ENG1002 | English for Essential Communication/ English for Effective Communication | 2 | 2 | 3 | University Electives 20 | | | | |
| ENG1002/ENG2001 | English for Effective Communication /English for Professional Communication | 2 | 2 | 3 | Compulsory for PAT Registered Students | | | | |
| FRLXXXX | Foreign Language | 2 | 0 | 2 | CSE2025 | AWS Solution Architect | | | |
| MGT1001 | Ethics and Values | 0 | 2 | 2 | CSE1022 | Introduction to Programming | | | |
| MGT1040 | Entrepreneurship | 3 | 2 | 4 | STSXXX | Competitive Coding Course-I | | | |
| XXXX | Indian Studies | 2 | 0 | 2 | STSXXX | Competitive Coding Course-II | | | |
| STSXXXX | Qualitative and Quantitative Skills Practice I | 3 | 0 | 1 | STSXXX | Competitive Coding Course-III | | | |
| STSXXXX | Qualitative and Quantitative Skills Practice II | 3 | 0 | 1 | STSXXX | Competitive Coding Course-IV | | | |
| BIC4002 | Industrial Internship/ Senior Design Project | 0 | 0 | 12 | Engineering Sciences Humanities Social Sciences Liberal arts Economics Finance Management | | | | |
| CAP4001 | Capstone | 0 | 0 | 6 | Honours Degree (20 credits) - Students can opt for an Honours Degree" in the same discipline by earning 20 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Honours options. | | | | |
| SIT1001 | Summer Internship | 0 | 0 | 2 | Minors Degree (20 credits) - Students can opt for a "Minor Degree" in other disciplines 20 credits in addition to the mini-mum credit requirement of the Undergraduate Degree from the courses listed in the Minor options. | | | | |
| ECS2002 | Engineering Clinics - System Design | 0 | 4 | 2 | Double Major Degree (40 credits) -Students can opt for a "Double Major" in other disciplines by earning 40 credits in addition to the minimum credit requirement of the Undergraduate Degree from the courses listed in the Second Major options. | | | | |
| ECS3001 | Engineering Clinics - Real Time System | 0 | 4 | 2 | | | | | |
| EXCXXXX | Extracurricular Activities | 2 | | | | | | | |
| Programme Core | | 40 | | | | | | | |
| ECE1003 | Digital Logic Design | 3 | 2 | 4 | | | | | |
| MAT1003 | Discrete Mathematical Structures | 4 | 0 | 4 | | | | | |
| CSE3004 | Design and Analysis of Algorithms | 3 | 2 | 4 | | | | | |