CURRICULUM

I Semester

- Problem Solving through Computational Thinking
- Calculus and Matrix Algebra
- Fundamentals of Electrical and Electronics Engineering
- Mind Management and Human Values – 1
- Introduction to Python and Data Structures
- Applied Chemistry
- Communicative English
- Research and Entrepreneurship Project.

II Semester

- Object Oriented Programming using Java
- PCL -1 Research and Entrepreneurship Project.
- Workshop Practices
- Engineering Physics
- Biology for Engineers
- Mind Management and Human Values – 2
- Decentralized Applications
- Introduction to Blockchain

III Semester

- Economics for Engineers
- Operating System Introduction and OS automation using python
- Blockchain Components & Architecture
- Foundations of Mathematics –I+
- Discrete Mathematics and Graph Theory
- Software Engineering
- Relational Database Management Systems
- Computer Networks and Security
- Research and Entrepreneurship Project.

IV Semester

- Cryptography and Network Security
- Design and Analysis of Algorithms
- Environmental Studies
- Introduction to Smart contracts
- Open Elective I
- Foundations of Mathematics –II+
- PCL -2 Research and Entrepreneurship Project.
- Internship-1

V Semester

- Smart Contract Development
- Object Oriented Analysis and Design using Java
- Research Methodology
- Department-Specific Elective I
- Kotline Programming
- Corda development (Java/Kotlin)
- Open Elective II
- Introduction to the basics of Cryptocurrency
- Research and Entrepreneurship Project.

VI Semester

- Industry Use Cases using Blockchain
- Solidity Programming Essentials
- Department Specific Elective II
- Department-Specific Elective III
- Open Elective III
- PCL -3 Research and Entrepreneurship Project.
- Internship-2

VII Semester

- Cryptocurrencies-II (Bitcoin, Ethereum)
- Consensus Mechanisms
- Indian Constitution
- Intellectual Property Rights
- Department Specific Elective IV
- Department Specific Elective V
- Open Elective IV
- Mini Project

VIII Semester

- Department Specific Elective VI
- Blockchain Governance and Regulations
- Web Development
- Internship-3
- Research (Publications/Patent)