## ANNEXURE B

## CSE course structure from academic year 2023 and onwards

1st Sem  1. Engg Foundation-I (Computer Programming) (L-T-P: 3-0-2)  2. Engg Mathematics-I (Calculus and Transform) (L-T-P: 3-1-0)  3. Environmental Studies (L-T-P: 3-0-0)  4. Engg Drawing & Visualization (L-T-P: 1-0-2)  5. Physics (L-T-P: 3-0-2)  6. English in Practice (L-T-P: 3-0-0)  Total Credit: 20	2nd Sem 1. Engg Foundation-II (Data Structure) (L-T-P: 3-0-2) 2. Engg Mathematics-II (Probability and Statistics) (L-T-P: 3-1-0) 3. Principles of Economics (L-T-P: 2-0-0) 4. Product Realization (L-T-P: 1-0-2) 5. Chemistry (L-T-P: 3-0-2) 6. Introduction to Electrical and Electronics Engg (L-T-P: 3-0-2) Total credit: 20
3rd Sem  1. Digital Logic and Systems Design (L-T-P: 3-0-2) 2. Engg Foundation-III (Introduction to Artificial Intelligence) (L-T-P: 3-1-0) 3. IPR and Law (L-T-P: 2-0-0) 4. Linear Algebra (L-T-P: 3-1-0) 5. Principle of Programming Languages (L-T-P: 3-1-0) 6. DBMS (L-T-P: 3-0-2)  Total Credits: 22	4th Sem  1. Computer Architecture (L-T-P: 3-0-2) 2. Professional Ethics (L-T-P: 2-0-0) 3. Object Oriented Programming (L-T-P: 3-0-2) 4. Discrete Mathematical Structures (L-T-P: 3-1-0) 5. Design and Analysis of Algorithms (L-T-P: 3-1-0) 6. Elective 1 (L-T-P: 3-0-2/3-1-0) (CG/DIP/NumAna)  Total Credits: 22
5th Sem  1. Theory of Computation (L-T-P: 3-1-0) 2. Machine Learning (L-T-P: 3-0-2) 3. Operating Systems (L-T-P: 3-0-2) 4. Computer Networks (L-T-P: 3-1-0) 5. Elective 2 (Intro to Bioinformatics) (L-T-P: 3-0-2/3-1-0) 6. Optional Course *  Total Credits: 20	6th Sem  1. Compiler Design (L-T-P: 3-1-0) 2. Technical Writing (L-T-P: 2-0-0) 3. Software Engineering (L-T-P: 3-0-0) 4. Computer Vision (L-T-P: 3-1-0) 5. Elective 3 (Intro to Cyber Threats) (L-T-P: 3-1-0) 6. Elective 4 (Adhoc Net/Wireless) (L-T-P: 3-0-0) Total Credits: 20
7th Sem  1. Project (Engineering Specific) (Credits: 6)  2. Elective 5 (L-T-P: 3-0-2) (NLP/BN)  3. Elective 6 -SWARM Intelligence/nature inspired algorithms (L-T-P: 3-0-0)  4. Elective 7 (Cryptography/ Data Warehouse) (L-T-P: 3-0-0)  Total Credits: 16	Bth Sem  Dissertation On-campus/ Industry internship* (SOE project evaluation committee will evaluate project done by student in this semester)  *Student needs to find a qualified Industry option himself/herself for the dissertation at industry. Dean SoE/Internship coordinator needs to approve the internship at Industry based on the Company profile and the work profile given to the student.  Only after approval student is allowed to go for industry (Credits: 20)

## **Total Credits 160**