List of Honours, Minor Specialization, DE, OC as Approved by BoS for 2019 Admitted Batch
Name of the Department: Computer Science and Engineering

Session	Semester	Courses for Honours	Courses for Minor Specialization	DE-Courses	OC-Courses	Seminar/Self Study Courses
July-Dec 2021	V	1) The Joy of Computing using Python 2) Advanced computer architecture 3) Cloud computing	1) Programming in C++(Domain Specialization- Programming) 2) Programming, Data Structures and Algorithms in Python(Programming) 3) Introduction to Operating Systems(Systems) 4) Cloud Computing(Systems)			1) Python for Data Science 2) Introduction to Quantum Computing: Quantum Algorithms and Qiskit 3) Gender justice and workplace security 4) Decision-Making Under Uncertainty
Jan-June 2022	VI	1) GPU Architectures and Programming 2) Introduction to parallel programming with OpenMP and MPI 3) Data Science for Engineers	1) Programming In Java 2) Database Management System 3) Ethical Hacking 4) Computer Networks and Internet Protocol	**DE-1** 1) Network & Web Security 2) Image Processing 3) Mobile Computing **DE-2 (SWAYAM)** 1) An Introduction to Artificial Intelligence 2) Introduction To Internet of Things 3) Object Oriented System Development Using UML, Java And Patterns		
July-Dec 2022	VII	1) Multi-Core Computer Architecture - Storage and Interconnects 2) Parameterized Algorithms 3) Software Project Management	1) Design and analysis of algorithms 2) Software Testing 3) Computer Graphics	**DE-4** 1) Software Testing 2) Big Data Computing 3) Introduction To Machine Learning	OC-2 1) Soft Computing 2) Network Security OC-3 1) R Programming 2) Computer Networks	