List of Honours, Minor Specialization, DE, OC as Approved by BoS for 2017 Admitted Batch
Name of the Department: Computer Science and Engineering

Session	Semester	Courses for Honours	Courses for Minor Specialization	Open Courses offered(OC)	DE Courses Offered
Jul-Dec 2019	V	1) Advanced Computer Architecture 2) Data Science for Engineers 3) The Joy of Computing using Python	1) Operating System Fundamentals 2) Database Management System 3) Object oriented analysis and design	Nil	Nil
Jan-June 2020	VI	1) Multi-Core Computer Architecture - Storage and Interconnects 2) GPU Architectures and Programming 3) Artificial Intelligence: Knowledge Representation and Reasoning	1) Introduction to algorithms and analysis 2) Programming, Data Structures and Algorithms Using Python 3) Programming in Java	OC-1 1) Data Structures 2) Python Programming 3) Software Engineering	DE-1 1) Network & Web Security 2) Image Processing 3) Mobile Computing DE-2 4) Data Analytics with Python 5) Introduction to Machine Learning 6) Cloud computing
Jul-Dec 2020	VII	1) Introduction to Industry 4.0 and Industrial Internet of Things 2) Deep Learning 3) Big Data Computing	1) Object Oriented System Development using UML, Java and Patterns 2) Cloud computing 3) Computer Graphics	OC-2 4) Soft Computing 5) Network Security 6) Data Mining & Warehousing OC-3 1) R Programming 2) Artificial Intelligence 3) Computer Networks	DE-3 1) Networking with TCP/IP 2) Data Mining & Warehousing 3) Distributed Systems DE-4 1) Practical Machine Learning with Tensorflow 2) Scalable Data Science 3) Introduction to internet of things
Jan-June 2021	VIII	1) User-centric computing for Human-Computer Interaction 2) Reinforcement Learning 3) Information Security-5-Secure Systems Engineering 4) Foundations of Cryptography	1) Foundations of Cryptography 2) Introduction to Machine Learning 3) GPU Architecture and Programming	Pool of OC-4 and OC-5 1) Privacy and Security in Online Social Media 2) Introduction to internet of things 3) Data Science for Engineers 4) Social Networks	DE-5 1) Social Networks 2) Privacy & security in online social media

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Name of the Department: Computer Science and Engineering

Semester	Department Electives (DE)	Open Courses(OC)	Honours	Minors
V Batch 2019-20	-----	----------	1) The Joy of Computing using Python 2) Advanced computer architecture 3) Cloud computing	1) Programming in C++ 2) Programming, Data Structures and Algorithms in Python 3) Introduction to Operating Systems 4) Cloud computing
VII Batch 2018-19	DE-3 1) Networking with TCP/IP 2) Data Mining & Warehousing 3) Distributed System DE-4 1) Cloud Computing 2) Deep learning – IITRopar 3) Software Testing	OC-2 1) Soft Computing 2) Network Security OC-3 1) R Programming 2) Computer Networks	1) Deep Learning for Computer Vision 2) Parameterized Algorithms 3) Big Data Computing	1) Computer Graphics 2) Theory of Computation 3) Software Testing