

**SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATHI MAHILA VISVAVISYALAYAM**

Department of Computer Science and Engineering

List of Courses Offered by the department for B.Tech (CSE) (2019-20)

THEORY

S.No	Course Code	Course Title	Number of Credits	Prerequisites
1	19CST01	Programming for Problem Solving	3	---
2	19CST02	Discrete Mathematics	3	---
3	19CST03	Data Structures	3	19CST01 – Programming for Problem Solving
4	19CST04	Data Communications	3	---
5	19CST05	Computer Architecture and Organization	3	19ECT45 – Digital Logic Design
6	19CST06	Object Oriented Programming	3	19CST01 – Programming for Problem Solving, 19CST03 – Data Structures
7	19CST07	Database Management Systems	3	---
8	19CST08	Theory of Computation	3	---
9	19CST09	Design and Analysis of Algorithms	3	19CST03 – Data Structures
10	19CST10	Operating Systems	3	---
11	19CST11	Compiler Design	3	19CST08 – Theory of Computation
12	19CST12	Software Engineering	3	---
13	19CST13	Machine Learning	3	19CST15 – Artificial Intelligence 19CST21 – Data Mining
14	19CST14	Computer Networks	3	---
15	19CST15	Artificial Intelligence	3	19CST02 – Discrete Mathematics
16	19CST16	Cryptography and Network Security	3	19CST14 – Computer Networks
17	19CST17	Internet and Web Programming	3	19CST06 – Object Oriented Programming
18	19CST18	System Programming	3	19CST05 – Computer Architecture and Organization
19	19CST19	Software Project Management	3	19CST12 – Software Engineering
20	19CST20	Neural Networks	3	19CST15 – Artificial Intelligence
21	19CST21	Software Testing	3	19CST12 – Software Engineering
22	19CST22	Data Mining	3	19CST07 – Database Management Systems

S.No	Course Code	Course Title	Number of Credits	Prerequisites
23	19CST23	Deep Learning	3	19CST15 – Artificial Intelligence 19CST13 – Machine Learning 19CST22 – Neural Networks
24	19CST24	Cloud Computing	3	19CST10 – Operating Systems 19CST14 – Computer Networks
25	19CST25	Distributed Computing	3	19CST06 – Object Oriented Programming 19CST10 – Operating Systems
26	19CST26	Big Data Analytics	3	19CST07 – Database Management Systems 19CST21 – Data Mining
27	19CST27	Wireless Networks	3	19CST14 – Computer Networks
28	19CST28	Information Security	3	19CST16 – Cryptography and Network Security
29	19CST29	Data Science	3	19CST27 – Big Data Analytics
30	19CST30	Cyber Physical Systems	3	19CST33 – Internet of Things
31	19CST31	Fault Tolerant Computing	3	19CST25 – Distributed Computing
32	19CST32	Speech and Natural Language Processing	3	19CST13 – Machine Learning
33	19CST33	Basics of Data Structures	3	19CST01 – Programming for Problem Solving
34	19CST34	Introduction to C++ Programming	3	19CST01 – Programming for Problem Solving
35	19CST35	Fundamentals of Computer Organization	3	---
36	19CST36	Basics of Computer Networks	3	---
37	19CST37	Introduction to Programming with Python	3	---
38	19CST38	Introduction to Database Management Systems	3	---
39	19CST39	Introduction to Cloud Computing	3	---
40	19CST40	Introduction to Cyber Security	3	---
41	19CST41	Introduction to Artificial Intelligence	3	---
42	19CST42	Introduction to Java Programming	3	---
43	19CST43	Fundamentals of Internet of Things	3	---

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List of Courses Offered by the department for B.TECH (2019-20)

PRACTICALS

S.No	Course Code	Course Title	Number of Credits	Prerequisites
1	19CSP01	Programming for Problem Solving Lab	2	---
2	19CSP02	Data Structures Lab	1	19CSP01 – Programming for Problem Solving Lab
3	19CSP03	IT Workshop	1	---
4	19CSP04	Object Oriented Programming Lab	1	19CSP01 – Programming for Problem Solving Lab
5	19CSP05	Database Management Systems Lab	1	---
6	19CSP06	Mathematical Toolkit Lab	1	---
7	19CSP07	Operating Systems Lab	1	---
8	19CSP08	Software Engineering and Object Oriented Analysis and Design Lab	1	---
9	19CSP09	Machine Learning and Artificial Intelligence Lab	1	---
10	19CSP10	Computer Networks Lab	1	---
11	19CSP11	Cryptography and Network Security Lab	1	---
12	19CSP12	Internet and Web Programming Lab	1	---
13	19CSP13	Advanced Programming Lab	3	---

Dr. V. Saritha
HoD (CSE)

Dr. P. Venkata Krishna
BoS Chairman (CSE)

Dr. A. Ramakrishna Rao
Director, SE&T