

B.Tech Curriculum for Computer Science and Engineering

SEMESTER - I

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Calculus and Ordinary Differential Equations	Mathematics	MA1L003	3-1-0	4	4
Introduction to Bio Science and Technology	Chemistry	ID2L002	2-0-0	2	2
Happiness and life skill	Humanities, Social Science and Management	ID1LXXX	1-0-0	1	1
Introduction to Bharatiya Knowledge Traditions	Humanities, Social Science and Management	ID1LXXX	2-0-0	2	2
Programming in C	Computer Science Engineering	CS1L002	2-0-2	3	4
Basic Electrical and Electronics Engineering	Electrical Engineering	EE1L002	3-1-0	4	4
Basic Electrical and Electronics Engineering Laboratory	Electrical Engineering	EE1P002	0-0-3	2	3
Extra Academic Activity-1		ID1T001	0-0-3	1	-
Total				19	20

SEMESTER - II

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Linear Algebra and Complex Analysis	Mathematics	MA1L004	3-1-0	4	4
Environmental Science, Technology and Management	Earth, Ocean and Climate Science	ID2L003	2-0-0	2	2
English for Learning and Communication	Humanities, Social Science and Management	HS1L011	2-0-2	3	4
Physics/Chemistry (Students can choose only one theory)	Physics / Chemistry	PH1L001/ CY1L001	3-0-0	3	3
Physics/Chemistry Laboratory (Theory corresponding one lab)	Physics/ Chemistry	PH1P001/ CY1P001	0-0-3	2	3
Engineering Drawing and Graphics	Infrastructure	CE1P001	1-0-3	3	4
Discrete Structures	Computer Science Engineering	CS2L001	3-0-0	3	3
Extra Academic Activity-2		ID1T002	0-0-3	1	-
Total				21	23

SEMESTER-III

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS 2		3-0-0	3	3
Probability & Statistics	MATH 3/DC2		3-0-0	3	3
Data Structures	DC 3	CS2L004	3-0-0	3	3
Formal Language and Automata Theory	DC 4	CS3L001	3-1-0	4	4
Digital Logic	SDC 3	CS2L003	2-0-2	3	4
Data Structures Lab	DC Lab 3	CS2P002	0-0-3	2	3
Total				18	20

SEMESTER-IV

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS 3		3-0-0	3	3
Design & Analysis of Algorithms	DC 5	CS2L002	3-1-0	4	4
Computer Organization & Architecture	DC 6	CS3L002	3-1-0	4	4
Open Elective Basket	OE 1		3-0-0	3	3
Object Oriented Programming	SDC 4	CS2L007	2-0-2	3	4
Design & Analysis of Algorithms Lab	DC Lab 4	CS2P001	0-0-3	2	3
Computer Organization & Architecture Lab	DC Lab 5	CS3P001	0-0-3	2	3
Total				21	24

SEMESTER-V

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
	HSS 4		3-0-0	3	3
Introduction to AI & ML	DC 7	CS3L003	3-0-0	3	3
Operating Systems	DC 8	CS3L005	3-1-0	4	4

Open Elective Basket	OE 2		3-0-0	3	3
Advanced Programming	SDC 5	CS3L004	2-0-2	3	4
Introduction to AI & ML Lab	DC Lab 6	CS3P007	0-0-3	2	3
Operating Systems Lab	DC Lab 7	CS3P003	0-0-3	2	3
Total				20	23

SEMESTER-VI

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Computer Networks	DC 9	CS3L006	3-1-0	4	4
Database Management Systems	DC 10	CS3L007	3-0-0	3	3
Software Engineering	DC 11	CS4L009	3-0-0	3	3
Dept. Elective Basket	DE 1		3-0-0	3	3
Reinforcement Learning	SDC 6	CS3L008	2-0-2	3	4
Computer Networks Lab	DC Lab 8	CS3P004	0-0-3	2	3
Database Management Systems Lab	DC Lab 9	CS3P002	0-0-3	2	3
Total				20	23

SEMESTER-VII

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Compiler Design	DC 12	CS4L002	3-0-0	3	3
Dept. Elective Basket	DE 2		3-0-0	3	3
Dept. Elective Basket	DE 3		3-0-0	3	3
BTP- 1	Project 1 / DE/OE-A	CS4D001/ Subject from OE/DE Basket		3	
Summer Internship	ITD	CS4T001	0-0-2	2	
Compiler Design Lab	DC Lab 10	CS4P001	0-0-3	2	3
Total				16	

SEMESTER-VIII

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Dept. Elective Basket	DE 4		3-0-0	3	3
Dept. Elective Basket	DE 5		3-0-0	3	3
Dept. Elective Basket	DE 6		3-0-0	3	3
BTP-2	Project 2 / DE / OE- B & C	CS4D002/ 2 subjects from OE/DE Basket	-	6	
Total				15	

SEMESTER-VIII FOR SIX MONTH INTERNSHIP STUDENTS

Subject Name	Type	Subject Code	L-T-P	Credit	Contact Hour
Six month Internship	Internship	CS4T002	3-0-0	3	3
Dept. Elective Basket	DE 5		3-0-0	3	3
Dept. Elective Basket	DE 6		3-0-0	3	3
BTP-2	Project 2 / DE / OE- B & C	CS4D002/ 2 subjects from OE/DE Basket	-	6	
Total				15	

Total Credit: 150