

Program Structure: B. Tech - Computer Science and Business Systems

I Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 1101	Fundamentals of Computing	3	0	2	5	4
2.	BT CS&BS 1102	Fundamentals of Programming	3	0	2	5	4
3.	BT CS&BS 1103	Mathematics I	3	1	0	4	4
4.	BT CS&BS 1104	Effective Communication I	3	0	0	3	3
5.	BT CS&BS 1105	Performing Arts/Sports/Music/Language I	1	0	2	3	2
TOTAL			13	1	6	20	17

II Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 1201	Engineering Mechanics	2	1	0	3	3
2.	BT CS&BS 1202	Physics	3	0	0	3	3
3.	BT CS&BS 1203	Mathematics II	3	1	0	4	4
4.	BT CS&BS 1204	Engineering Realization	0	0	2	2	2
5.	BT CS&BS 1205	Effective Communication II	3	0	0	3	3
6.	BT CS&BS 1206	Performing Arts/Sports/Music/Language II	1	0	2	3	2
TOTAL			12	2	4	18	17

III Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 2101	Probability, Statistics, and Stochastic Processes	3	1	0	4	4
2.	BT CS&BS 2102	Signals and Systems	3	1	0	4	4
3.	BT CS&BS 2103	Maths for Computing	3	0	0	3	3
4.	BT CS&BS 2104	Data Structures and Algorithms	3	0	2	5	4
5.	BT CS&BS 2105	Foundations of Quantum Information Processing (Program Linked Science Elective)	3	0	0	3	3
6.	BT CS&BS 2106	Intro. To Profession	0	2	2	4	1
TOTAL			15	4	4	23	19

IV Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 2201	Pattern Recognition and Machine Learning	3	0	2	5	4
2.	BT CS&BS 2202	Software Engineering	3	0	2	5	4
3.	BT CS&BS 2203	Human-Machine Interaction	0	0	4	4	2
4.	BT CS&BS 2204	Digital Design	2	0	2	4	3
5.	BT CS&BS 2205	Humanities I	3	0	0	3	3
TOTAL			11	0	10	21	16

V Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 3101	Design and Analysis of Algorithms	3	1	0	4	4
2.	BT CS&BS 3102	Computer Architecture	3	0	0	3	3
3.	BT CS&BS 3103	Principles of Programming Languages	3	0	0	3	3
4.	BT CS&BS 3104	Database Systems	3	0	2	5	4
5.	BT CS&BS 3105	Humanities II	3	0	0	3	3
6.	BT CS&BS 3106	Professional Ethics I	0	1	0	1	1
TOTAL			15	1	2	19	18

VI Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 3201	Cyber Security	3	0	2	5	4
2.	BT CS&BS 3202	Computer Networks	3	0	2	5	4
3.	BT CS&BS 3203	Operating Systems	3	0	2	5	4
4.	BT CS&BS 3204	Digital Systems Lab	0	0	2	2	1
5.	BT CS&BS 3205	CS Elective Core	3	0	0	3	3
6.	BT CS&BS 3207	Programme/Open Elective	3	0	0	3	3
7.	BT CS&BS 3208	Professional Ethics II	0	0	2	2	1
8.	BT CS&BS 3209	Colloquium	1	0	0	1	1
TOTAL			16	0	10	26	21

VII Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 4101	B. Tech. Project - I	0	0	6	6	3
2.	BT CS&BS 4102	CS Elective Core	3	0	0	3	3
3.	BT CS&BS 4103	Programme/Open Elective	3	0	0	3	3
4.	BT CS&BS 4104	Environmental Science	2	0	0	2	2
5.	BT CS&BS 4105	Dissertation - I	10	0	0	10	10
TOTAL			16	0	6	24	21

VIII Semester

S. No.	Course Code	Course Title	L	T	P	Contact Hrs/Wk	Credits
1.	BT CS&BS 4201	B. Tech. Project - II	0	0	6	6	3
2.	BT CS&BS 4202	Humanities III	3	0	0	3	3
3.	BT CS&BS 4203	Programme/Open Elective	5	0	0	5	5
4.	BT CS&BS 4204	Dissertation - II	10	0	0	10	10
TOTAL			18	0	6	24	21

TOTAL NO. OF CREDITS = 150

Note: Selection of open electives, projects, and dissertations based on the specializations.