

**B.Tech. Computer Science and Business Systems
Curriculum – R2019(Revised)**

SEMESTER I

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
		Induction Program	-	-	-	-	-	-
THEORY								
1	R19HS152	Business Communication and Value Science	HS	3	3	0	0	3
2	R19MA103	Discrete Mathematics	BS	4	3	1	0	4
3	R19MA104	Linear Algebra	BS	4	3	1	0	4
4	R19PH201	Physics for Information Science	BS	3	3	0	0	3
5	R19CS101	Problem Solving using C	ES	3	3	0	0	3
PRACTICALS								
6	R19PH111	Physics Laboratory	BS	2	0	0	2	1
7	R19GE111	Engineering Practices Laboratory	ES	4	0	0	4	2
8	R19CS111	Problem Solving using C Laboratory	ES	4	0	0	4	2
PROFESSIONAL DEVELOPMENT								
9	R19EM101	Soft Skills	EM	2	0	0	2	1
		Total		29	15	2	12	23

SEMESTER II

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY								
1	R19MA105	Probability and Statistics	BS	4	3	1	0	4
2	R19CS201	Data Structures	PC	3	3	0	0	3
3	R19CB101	Fundamentals of Economics	ES	3	3	0	0	3
4	R19CS104	Application Design and Development	ES	4	2	2	0	4
THEORY CUM PRACTICALS								
5	R19CS151	Python Programming	ES	5	3	0	2	4
6	R19HS154/ R19HSHSX XX	Corporate Communication and Life Skills/Language Elective	HS	4	2	0	2	3
PRACTICALS								
7	R19CS211	Data Structures Laboratory	PC	4	0	0	4	2
MANDATORY COURSE								
8	R19MC101	தமிழர்மரபு/ Heritage Of Tamils	HSMC	1	1	0	0	1
		Total		28	17	3	8	24

SEMESTER III

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY								
1	R19CS202	Database Management Systems	PC	3	3	0	0	3
2	R19CS203	Object Oriented Programming using JAVA	PC	3	3	0	0	3
3	R19CS205	Design and Analysis of Algorithms	PC	3	3	0	0	3
4	R19CB201	Introduction to Innovation, IP, Management and Entrepreneurship	HS	3	3	0	0	3
THEORY CUM PRACTICALS								
5	R19MA251	Statistical Modeling	BS	5	3	0	2	4
6	R19EC252	Digital Principles and Computer Organization	PC	5	3	0	2	4
PRACTICALS								
7	R19CS212	Database Management Systems Laboratory	PC	2	0	0	2	1
8	R19CS213	Object Oriented Programming using JAVA Laboratory	PC	2	0	0	2	1
9	R19CS215	Design and analysis of Algorithms Laboratory	PC	4	0	0	4	2
PROFESSIONAL DEVELOPMENT								
10	R19EM201	Logical Thinking	EM	2	0	0	2	1
MANDATORY COURSE								
11	R19MC102	தமிழரும் தொழில்நுட்பமும் /Tamil and Technology	HSMC	1	1	0	0	1
Total				33	19	0	14	26

SEMESTER IV

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY								
1	R19CS204	Operating Systems	PC	3	3	0	0	3
2	R19CS206	Full Stack Development	PC	3	3	0	0	3
3	R19EC102	Electronics and Microprocessors	ES	3	3	0	0	3
THEORY CUM PRACTICALS								
4	R19MA252	Computational Statistics	BS	5	3	0	2	4
5	R19EC253	Computer Networks	PC	5	3	0	2	4
PRACTICALS								
6	R19CS214	Operating Systems Laboratory	PC	2	0	0	2	1
7	R19CS216	Full Stack Development Laboratory	PC	2	0	0	2	1
PROJECT WORK								
8	R19CB281	Project with Design Thinking(Product/Software Development Life Cycle)	PW	2	0	0	2	1
PROFESSIONAL DEVELOPMENT								
9	R19EM202	Advanced Logical Thinking	EM	2	0	0	2	1

	R19EM203	Summer Internship	EM	-	-	-	-	NC
MANDATORY COURSE								
	R19MC201	Environmental Science	MC	1	1	0	0	NC
		Total		28	16	0	12	21

SEMESTER V

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY								
1	R19AM303	Artificial Intelligence and Machine Learning	PC	3	3	0	0	3
2	R19CS303	Automata theory and Compiler Design	PC	4	3	1	0	4
3	R19XXXXX	Professional Elective-I*	PE	3	3	0	0	3
THEORY CUM PRACTICALS								
4	R19EC352	Embedded Systems and IOT	ES	5	3	0	2	4
5	R19AD251	Data Science	PC	5	3	0	2	4
6	R19IT251	Software Engineering	PC	4	2	0	2	3
PRACTICALS								
7	R19AM312	Artificial Intelligence and Machine Learning Laboratory	PC	2	0	0	2	1
MANDATORY COURSE								
	R19MC202	Indian Constitution and Tradition	MC	1	1	0	0	NC
		Total		27	18	1	8	22

SEMESTER VI

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY								
1	R19IT302	Cloud Computing	PC	3	3	0	0	3
2	R19CS304	Cryptography and cyber security	PC	3	3	0	0	3
3	R19CB301	Managerial Economics	HS	4	3	1	0	4
4	R19XXXXX	Professional Elective II*	PE	3	3	0	0	3
5	R19XXXXX	Open Elective I*	OE	3	3	0	0	3
PRACTICALS								
6	R19CS312	Cyber Security Laboratory	PC	2	0	0	2	1
7	R19IT311	Cloud Computing Laboratory	PC	2	0	0	2	1
PROJECT WORK								
8	R19CB381	Innovative / Multi-Disciplinary Project	PW	2	0	0	2	1
		Total		22	15	1	6	19

SEMESTER VII

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY								
1	R19CB402	Business Strategy	PC	3	3	0	0	3
2	R19XXXXX	Professional Elective III*	PE	3	3	0	0	3
3	R19XXXXX	Professional Elective IV*	PE	3	3	0	0	3
4	R19XXXXX	Open Elective II*	OE	3	3	0	0	3
THEORY CUM PRACTICALS								
5	R19CB401	IT Project Management	PC	4	2	0	2	3
PROJECT WORK								
6	R19CB481	Project Work-Phase I	PW	6	0	0	6	3
Total				22	14	0	8	18

SEMESTER VIII

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY								
1	R19XXXXX	Open Elective III*	OE	3	3	0	0	3
PROJECT WORK								
2	R19CB482	Project Work-Phase II	PW	16	0	0	16	8
Total				19	3	0	16	11

Total Number of Credits: 164

Sl. No.	Category	I	II	III	IV	V	VI	VII	VIII	Credits	Credit%
1	HS	3	3	3	-	-	4	-	-	13	7.92
2	BS	12	4	4	4	-	-	-	-	24	14.63
3	ES	7	11	-	3	4	-	-	-	25	15.24
4	PC	-	5	17	12	15	8	6	-	63	38.41
5	PE	-	-	-	-	3	3	6	-	12	7.31
6	OE	-	-	-	-	-	3	3	3	9	5.48
7	PW	-	-	-	1	-	1	3	8	13	7.92
8	EM	1	-	1	1	-	-	-	-	3	1.82
9	NC	-	-	✓	✓	✓	-	-	-	0	0.00
10	MC	-	-	-	✓	✓	-	-	-	0	0.00
11	HSMC	-	1	1	-	-	-	-	-	2	1.21
Total		23	24	26	21	22	19	18	11	164	100%