

Curriculum

(Department of Computer Science and Business Systems)
(B.Tech-2019 Regulations; Curriculum and Syllabus)

Total credits to be earned for the award of the Degree (Regular): 160
Total credits to be earned for the award of the Degree (Lateral Entry): 122

I SEMESTER										
Code No.	Course Name	L	T	P	C	Hours/Week	Maximum Marks			Category
							CA	ES	Total	
1901MA105	Discrete Mathematics	3	0	0	3	3	40	60	100	BS
1901MA106	Probability and Statistics	3	0	0	3	3	40	60	100	BS
1901GE102	Principles of Electrical Engineering	2	0	2	3	4	50	50	100	BS
1901PH103	Fundamentals of Physics	2	0	2	3	4	50	50	100	BS
1901EN101	Business Communication and Value Science – I	1	0	2	2	3	100	0	100	HSS
1901GE103	Fundamentals of Computer Science	3	0	4	5	7	50	50	100	ES
	Induction Program (Non Credit)	0	0	0	0	0	100	0	100	-
Total		14	0	10	19	24	430	270	700	

II SEMESTER										
Code No.	Course Name	L	T	P	C	Hours/Week	Maximum Marks			Category
							CA	ES	Total	
1901MA205	Linear Algebra	3	1	0	4	4	40	60	100	BS
1901MA206	Statistical Modeling	3	1	0	4	4	40	60	100	BS
1901GE202	Data Structures and Algorithms	2	1	2	4	5	50	50	100	ES
1901GE203	Principles of Electronics	2	0	2	3	4	50	50	100	BS
1901HS201	Fundamentals of Economics	2	0	0	2	2	40	60	100	BS
1901EN201	Business Communication and Value Science – II	1	0	2	2	3	100	-	100	HSS
Total		13	3	6	19	22	320	280	600	

ATTESTED


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III SEMESTER										
Code No.	Course Name	L	T	P	C	Hours/ Week	Maximum Marks			Category
							CA	ES	Total	
	Theory Course									
1902BS301	Formal Language and Automata Theory	3	1	0	4	4	40	60	100	PC
1902BS302	Computer Organization and Architecture	3	0	0	3	3	40	60	100	PC
1902BS303	Object Oriented Programming	3	0	0	3	3	40	60	100	PC
1902BS304	Computational Statistics	3	0	0	3	3	40	60	100	PC
1902BS305	Software Engineering	3	0	2	4	5	50	50	100	PC
1902BS306	Financial Management	3	0	0	3	3	40	60	100	PC
	Laboratory Course									
1902BS351	Object Oriented Programming Lab	0	0	2	1	2	50	50	100	PC
1902BS352	Computational Statistics Lab	0	0	2	1	2	50	50	100	PC
1904GE351	Life Skills: Soft Skill	0	0	2	1	2	100	-	100	EEC
	Audit Course									
1901MCX02	Constitution of India	2	0	0	0	2	100	-	100	MC
	Total	20	1	8	23	29	550	450	1000	

IV SEMESTER										
Code No.	Course Name	L	T	P	C	Hours/ Week	Maximum Marks			Category
							CA	ES	Total	
	Theory Course									
1902BS401	Operating Systems	3	0	2	4	5	50	50	100	PC
1902BS402	Database Management Systems	3	0	0	3	3	40	60	100	PC
1902BS403	Software Design with UML	3	0	2	4	5	50	50	100	PC
1902BS404	Marketing Research and Marketing Management	3	0	0	3	3	40	60	100	PC
1901GE401	Introduction to Innovation, IP Management and Entrepreneurship	3	0	0	3	3	40	60	100	ES
1901MA404	Operations Research	3	0	0	3	3	40	60	100	BS
	Laboratory Course									
1902BS451	Database Management Systems Lab	0	0	2	1	2	50	50	100	PC
1901EN301	Business Communication and Value Science – III	0	0	4	2	4	50	50	100	HSS
1904GE451	Life Skill :Verbal Ability	0	0	2	1	2	100	-	100	EEC
	Audit Course									
1901MCX01	Environmental Studies	3	0	0	0	3	100	-	100	MC
	Total	21	0	12	24	33	560	440	1000	

V SEMESTER										
Code No.	Course Name	L	T	P	C	Hours/ Week	Maximum Marks			Category
							CA	ES	Total	
	Theory Course									
1902BS501	Design and Analysis of Algorithms	3	0	0	3	3	40	60	100	PC
1902BS502	Compiler Design	3	0	0	3	3	40	60	100	PC
1902BS503	Design Thinking	3	0	0	3	3	40	60	100	PC
1902BS504	Fundamentals of Management	3	0	0	3	3	40	60	100	PC
1902BS505	Business Strategy	3	0	0	3	3	40	60	100	PC
903BS0XX	Professional Elective I	3	0	0	3	3	40	60	100	PE
	Laboratory Course									
1902BS551	Compiler Design Lab	0	0	2	1	2	50	50	100	PC
1902BS552	Mini Project : Design Thinking Lab	0	0	4	2	2	100	-	100	PC
1904GE551	Life Skills: Aptitude I	0	0	2	1	2	100	-	100	EEC
	Audit Course									
1901MCX03	Essence of Indian Traditional Knowledge	2	0	0	0	2	100	-	100	MC
	Total	20	0	8	22	26	590	410	1000	

VI SEMESTER										
Code No.	Course Name	L	T	P	C	Hours/ Week	Maximum Marks			Category
							CA	ES	Total	
	Theory Course									
1902BS601	Computer Networks	3	0	0	3	3	40	60	100	PC
1902BS602	Information Security	3	0	2	4	5	50	50	100	PC
1902BS603	Artificial Intelligence	3	0	2	4	5	50	50	100	PC
1902BS604	Financial and Cost Accounting	3	0	0	3	3	50	50	100	PC
	Open Elective I	3	0	0	3	3	40	60	100	OE
903BS0XX	Professional Elective II	3	0	0	3	3	50	50	100	PE
	Laboratory Course									
1902BS651	Computer Networks Lab	0	0	2	1	2	50	50	100	PC
1901EN401	Business Communication and Value Science – IV	0	0	4	2	4	50	50	100	HSS
1904GE651	Life Skills : Aptitude II	0	0	2	1	2	100	-	100	EEC
	Total	18	0	12	24	30	480	420	900	

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VII SEMESTER										
Code No.	Course Name	L	T	P	C	Hours/Week	Maximum Marks			Category
							CA	ES	Total	
Theory Course										
1902BS701	Usability Design of Software Applications	2	0	2	3	4	50	50	100	PC
1902BS702	Services Science and Service Operational Management	3	0	0	3	3	40	60	100	PC
1902BS703	IT Project Management	3	0	0	3	3	40	60	100	PC
1902BS703	Human Resource Management	3	0	0	3	3	40	60	100	PC
1903BS0XX	Professional Elective III	3	0	0	3	3	40	60	100	PE
1903BS0XX	Professional Elective IV	3	0	0	3	3	50	50	100	PE
Laboratory Course										
1904BS751	Technical Mini Project	0	0	2	1	2	50	50	100	EEC
Total		17	0	8	19	23	310	390	700	

VIII SEMESTER										
Code No.	Course	L	T	P	C	Hours/Week	Maximum Marks			Category
							CA	ES	Total	
1903BS0XX	Professional Elective V	3	0	0	3	3	40	60	100	PE
1904BS851	Project Work	0	0	14	7	14	50	50	100	EEC
Total		3	0	14	10	17	90	110	200	

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LIST OF ELECTIVES

PROFESSIONAL ELECTIVE COURSES

Code No.	Course Name	L	T	P	C	Hours/ Week	Maximum Marks			Category
							CA	ES	Total	
PE-1 [5th Semester]										
1903BS001	Cognitive Science and Analytics	3	0	0	3	3	40	60	100	PE
1903BS002	Introduction to IoT	3	0	0	3	3	40	60	100	PE
1903BS003	Cryptology	3	0	0	3	3	40	60	100	PE
1903BS004	Computational Finance and Modelling	3	0	0	3	3	40	60	100	PE
PE-2 [6th Semester]										
1903BS005	Machine Learning	3	0	0	3	3	40	60	100	PE
1903BS006	Robotics and Embedded Systems	3	0	0	3	3	40	60	100	PE
1903BS007	Engineering Economics	3	0	0	3	3	40	60	100	PE
1903BS008	Industrial Psychology	3	0	0	3	3	40	60	100	PE
PE-3 [7th Semester]										
1903BS009	Data Mining and Analytics	3	0	0	3	3	40	60	100	PE
1903BS010	Advance Finance	3	0	0	3	3	40	60	100	PE
1903BS011	Cloud, Micro services and Application	3	0	0	3	3	40	60	100	PE
1903BS012	Conversational Systems	3	0	0	3	3	40	60	100	PE
PE-4 [7th Semester]										
1903BS013	Image Processing and Pattern Recognition	3	0	0	3	3	40	60	100	PE
1903BS014	Behavioral Economics	3	0	0	3	3	40	60	100	PE
1903BS015	Social Information Networks	3	0	0	3	3	40	60	100	PE
1903BS016	Mobile Computing	3	0	0	3	3	40	60	100	PE
PE-5 [8th Semester]										
1903BS017	Modern Web Applications	3	0	0	3	3	40	60	100	PE
1903BS018	HR Management for Industry 4.0	3	0	0	3	3	40	60	100	PE
1903BS019	Enterprise Systems	3	0	0	3	3	40	60	100	PE
1903BS020	Quantum Computation and Quantum Information	3	0	0	3	3	40	60	100	PE

CURRICULUM COMPONENTS

B.Tech- Computer Science and Business Systems [R-2019]										
S.No	Category	Credits per semester								Total Credits
		1	2	3	4	5	6	7	8	
1	HSS	02	02	-	02	-	02	-	-	08
2	BS	12	13	-	03	-	-	-	-	28
3	ES	05	04	-	03	-	-	-	-	12
4	PC	-	-	22	15	18	15	12	-	82
5	PE	-	-	-	-	03	03	06	03	15
6	OE	-	-	-	-	-	03	-	-	03
7	EEC	-	-	01	01	01	01	01	07	12
8	MC	-	-	X	X	X	-	-	-	0
TOTAL		19	19	23	24	22	24	19	10	160

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