



S. Y. B. Tech (Computer Science Business Systems)
Semester -III Structure

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week Hr	Credi t C	Examination scheme (Marks)				
										Continuous Assessment			Semeste r End Examina tion ESE	Total Marks
				L	T	P				TA1	MS E	TA2		
1	PCC	CB2301T	Data Structure and Algorithm	3 (45)	(0)	0	(45)	3 (90)	3	10	30	10	50	100
2	PCC	CB2301L	Data Structure and Algorithm Lab	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
3	PCC	CB2302T	Operating System	3 (45)	1 (15)	0	(60)	4 (120)	4	10	30	10	50	100
4	PCC	CB2303T	Database Management Systems	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50 -	100
5	PCC	CB2303L	Database Management Systems Lab	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
6	MDM	HS2302T	Economics For Engineers	2 (30)	0	0	(30)	2 (60)	2	10	30	10	50 -	100
7	PCC	CB2304T	Software Engineering and Quality Assurance	3 (45)	(0)	0	(45)	3 (90)	3	10	30	10	50	100
8	MDM/ Project	CB2305 L	Design Thinking & Innovation	0	0	4 (32)	(28)	4 (60)	2	20	20	20	40	100
9	VSEC	CB2306 L	Skill Development Lab-I	0	0	4 (32)	(28)	4 (60)	2	20	20	20	40	100
10	MDM	CB2307 L	Business Communication Value Science & Aptitude Development	0	0	2 (20)	(10)	1 (30)	1	10	10	10	20	50
Total				13	01	14	266	660	22	130	230	130	390	850

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S. Y. B. Tech (Computer Science Business Systems)
Semester -IV Structure

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning	Total Classroom Contact hr/week	Credi t	Examination scheme (Marks)				
										Continuous Assessment		Semeste r End Examina tion	Total Marks	
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	
1	PCC-	CB2308T	Advance Data Structure	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50	100
2	PCC	CB2308L	Advance Data Structure Lab	0	0	2 (16)	(14)	1 (30)	1	10	10	10	20	50
3	PCC-	CB2309T	Computer Network	3 (45)	1 (15)	0	(60)	4 (120)	4	10	30	10	50	100
5	PCC	CB2310T	Computational Statistics	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50	100
6	PCC	CB2310L	Computational Statistics Lab	0	0	2 (16)	(14)	1 (30)	1	10	10	10	20	50
7	MDM	CB2311T	Financial & Cost Accounting	2 (30)	0	0	(30)	2 (60)	2	10	30	10	50	100
8	HSSM	HS2301T	Universal Human Values	2 (30)	1 (15)	0	(45)	3 (90)	3	10	30	10	50	100
9	MDM	CB2312L	Mini Project	0	0	2 (16)	(14)	1 (30)	1	10	10	10	20	50
10	VSEC	CB2313L	Skill Development Lab-II	0	0	4 (32)	(28)	4 (60)	2	20	20	20	40	100
11	Project /MDM	CB2314L	Seminar & Technical Communication	0	0	2 (16)	(14)	1 (30)	1	10	10	10	20	50
12	CC	CB2315L	Co-curricular course	0	0	2 (16)	(14)	1 (30)	1	10	10	10	20	50
Total				13	02	14	323	660	22	120	220	120	390	950

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T. Y. B. Tech (Computer Science Business Systems)
Semester -V Structure

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week Hr	Credi t C	Examination scheme (Marks)				
										Continuous Assessment		Semeste r End Examina tion ESE	Total Marks	
				L	T	P				TA1	MS E	TA2		
1	PCC	CB3301T	Design Analysis & Algorithm	3 (45)		0 (0)	(45)	3 (90)	3	10	30	10	50	100
2	VSEC	CB3302T	Cloud Computing	2 (30)	0	0	(30)	2 (30)	2	10	30	10	50	100
3	VSEC	CB3302L	Cloud Computing Lab	0	0	2 (20)	(10)	2 (30)	1	10	10	10	20	50
4	PCC	CB3303T	Machine Learning	3 (45)		0 (0)	(45)	3 (90)	3	10	30	10	50	100
5	PCC	CB3303L	Machine Learning Lab	0	0	2 (20)	(10)	2 (30)	1	10	10	10	20	50
6	PCC	CB3304T	Formal Language Automata Theory	3 (45)		0 (0)	(45)	3 (90)	3	10	30	10	50	100
7	OE		Open Elective-I	3 (45)		0 (0)	(45)	3 (90)	3	25			75	100
8	PEC	CB3305T	Professional Elective –I	3 (45)		0 (0)	(45)	3 (90)	3	10	30	10	50	100
9	Project	CB3306L	Engineering Innovation & Society-I	0	0	2 (20)	(10)	2 (30)	1	10	10	10	20	50
10	MDM	CB3307L	Business Communication Value Science and Aptitude Development	0	0	4 (32)	(28)	4 (60)	2	20	20	20	40	100
Total				17	00	10	313	630	22	100	225	100	425	850

Professional Elective-I

SR No	Course Code	Subject
1	CB3205T-A	Artificial Intelligence
2	CB3205T -B	Cyber Security & Trends
3	CB3205T -C	Financial Modelling
4	CB3205T -D	Human Computer Interaction-USD

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T. Y. B. Tech (Computer Science Business Systems)

Semester -VI Structure

Level 5.5: UG-Diploma/ Diploma-Eng

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week Hr	Credi t C	Examination scheme (Marks)					Total Marks
										Continuous Assessment			Semeste r End Examina tion ESE		
				L	T	P				TA1	MS E	TA2			
1	PCC	CB3309T	Information Security & Cryptography	2 (30)	0	0	(30)	2 (60)	2	10	30	10	50	100	
2	PCC	CB3309L	Information Security & Cryptography Lab	0	0	2 (20)	(10)	2 (30)	1	10	10	10	20	50	
3	BS/PC C	CB3310T	Operational Research	3 (45)	0	0 (0)	(45)	3 (90)	3	10	30	10	50	100	
4	MDM	CB 3311T	Industrial Psychology	2 (30)	0	0	(30)	2 (60)	2	10	30	10	50	100	
5	PEC	CB3312T	Professional Elective –II	2 (30)	0	0	(30)	2 (60)	2	10	30	10	50	100	
6	PEC	CB3312L	Professional Elective –II Lab	0	0	2 (20)	(10)	2 (30)	1	10	10	10	20	50	
7	OE		OPEN Elective-II	3 (45)	0	0 (0)	(45)	3 (90)	3	25			75	100	
8	VEC	ES3301T	Environmental Systems and sustainability Engineering	3 (45)	0	0 (0)	(45)	3 (90)	3	10	30	10	50	100	
9	VSEC	CB3313 L	Skill Development Lab-III	0	0	2 (20)	(10)	2 (30)	1	10	10	10	20	50	
10	Project	CB3311 4L	Engineering Innovation & Society-II	0	0	6 (60)	(30)	6 (90)	3	30	30	30	60	150	
11	CC	CB3311 5L	Work Place Communication & Analytical Skills	0	0	2 (20)	(14)	2 (30)	1	10	10	10	20	50	
Total				15	00	14	299	660	22	120	245	120	465	950	

Professional Elective-II

SR No	Course Code	Subject	SR No	Course Code	Subject
1	CB3312T-A	Deep Learning	1	CB3312L –A	Deep Learning Lab
2	CB3312T-B	Data Privacy & Cyber Law	2	CB3312L –B	Data Privacy & Cyber Law Lab
3	CB3312T-C	Financial Analytics	3	CB3312L –C	Financial Analytics Lab
4	CB3312T-D	High Performance Computing	4	CB3312L –D	High Performance Computing Lab

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Final Year B. Tech (Computer Science Business Systems)
Semester -VII Structure

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week Hr	Credi t C	Examination scheme (Marks)					Total Marks
				Continuous Assessment						Semeste r End Examina tion ESE	Total Marks				
				L	T	P						TA1	MS E	TA2	
1	PCC	CB4301T	Generative AI	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100	
2	PCC	CB4301L	Generative AI Lab	0 (0)	0 (0)	2 (20)	(10)	1 (30)	1	10	10	10	20	50	
3	MDM	CB4302T	Project Management	2 (30)	0	0	(30)	2 (60)	2	10	30	10	50	100	
4	BS/PC C	CB4303T	Human Resource Management	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100	
5	PEC	CB4304T	Professional Elective –III	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100	
6	PEC	CB4305T	Professional Elective – IV	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100	
7	PEC	CB4305L	Professional Elective – IV Lab	0 (0)	0 (0)	2 (20)	(10)	2 (30)	1	10	10	10	20	50	
8	OE-3		OPEN Elective-III	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	25			75	100	
9	Project	CB4306 L	Engineering Innovation & Society-III	0	0	6 (60)	(30)	6 (90)	3	30	30	30	60	150	
Total				17	00	10	305	660	22	100	225	100	425	850	

Professional Elective -III

SR No	Course Code	Subject
1	CB4304T-A	Marketing research Management
2	CB4304T-B	Service Science and Service Operations
3	CB4304T-C	Business ethics and Llaw
4	CB4304T-D	Compiler Design

Professional Elective-IV

SR No	Course Code	Subject	SR No	Course Code	Subject
1	CB4305T-A	Natural Language Processing	1	CB4305L-A	Natural Language Processing Lab
2	CB4305T-B	Block Chain Technology	2	CB4305L-B	Block Chain Technology Lab
3	CB4305T-C	Data Management Protection & Governance	3	CB4305L-C	Data Management Protection & Governance Lab
4	CB4305T-D	Quantum Computing	4	CB4305L-D	Quantum Computing Lab

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Final Year B. Tech (Computer Science Business Systems)

Semester -VII Structure

Track –I Internship & Training

S N	Course Category	Course Code	Course Title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning	Total Classroom Contact hr/week (Contact hr/ semester)	Credit	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examination	Total Mark s
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	
1	PCC	CB4307L	Industrial Internship / Enterpreneurship / Research Training	-	-	-	540 [#]	12 (540)	12	300			200	500
Total				00	00	00	540	540	12	300			200	500

NOTE: # According to AICTE Internship guidelines 1 credit=40 to 45 hours of work

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