

Department of Computer Science and Engineering

BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE)

FIRST SEMESTER

SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total	Credits
									Seasonal Exam	ESE		

THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	BSCT10	Mathematics –I	3	1	0	30	20	50	100	150	4
2	BSCT102/ BSCT103	*Physics/Chemistry	3	1	0	30	20	50	100	150	4
3	BHST101	English	2	0	0	30	20	50	50	100	2
4	BCST101 / BEET101	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4
5	Induction Program		3 Weeks Duration								

PRACTICAL / TRAINING / PROJECT

1	BSCP102/ BSCP103	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5
2	BHSP101	Language Lab	0	0	2	-	25	25	25	50	1
3	BCSP101 / BEEP101	Programming for Problem Solving Lab / Basic Electrical Engineering			3	-	25	25	25	50	2
		Total	11	2	8					700	17.5

SECOND SEMESTER

1	BSCT201	Mathematics –II	3	1	0	30	20	50	100	150	4
2	BSCT202/ BSCT20	*Physics/ Chemistry	3	1	0	30	20	50	100	150	4
3	BCST201 / BEET201	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4
4	BEST201	Environmental Sciences	2	0	0	-	-	-	50	50	-

PRACTICAL / TRAINING / PROJECT

1	BSCP202/ BSCP203	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5
2	BMEP201	Workshop/ Manufacturing Practices	1	0	3	-	50	50	50	100	3
3	BMEP202	Engineering Graphics & Design	1	0	3	-	50	50	50	100	3
4	BCSP201 / BEEP201	Programming for Problem Solving Lab / Basic Electrical Engineering	0	0	2	-	25	25	25	50	1.5
		Total	11	3	11	-	-	-	-	950	21

* Physic Syllabus is varied from branch to branch

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THIRD SEMESTER

SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total	Credits
								Seasonal Exam	ESE		

THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	BCET301	Energy & Environmental	3	1	0	30	20	50	100	150	4
2	BCST-302	Discrete Structure	3	1	0	30	20	50	100	150	4
3	BCST-303	Data Structure	3	1	0	30	20	50	100	150	3
4	BECT 304	Digital Electronics	3	1	0	30	20	50	100	150	3
5	BEET 305	Object Oriented Prog.& Methodology	3	1	0	30	20	50	100	150	3

PRACTICAL / TRAINING / PROJECT

1	BCSP 303	Data Structure	0	0	2		20	20	30	50	2
2	BECP 304	Digital Electronics	0	0	2		20	20	30	50	2
3	BEEP 305	Object Oriented	0	0	2		20	20	30	50	2
4	BCSP-306	Computer Workshop (Using Python)	0	0	2		20	20	30	50	1
5	BASP 107	Evaluation of Internship-I completed at I year level	0	0	2		20	20	30	50	1
		Total	15	5	10	-	-	-		1000	25

FOURTH SEMESTER

1	BAST 401	Mathematics- III	3	1	0	30	20	50	100	150	4
2	BECT 402	Database Management	3	1	0	30	20	50	100	150	3
3	BECT 403	Software Engineering	3	-	0	30	20	50	100	150	3
4	BEET 404	Computer Org. & Architecture	3	1	0	30	20	50	100	150	3
5	BEET 404	Theory of Automata and	3	1	0	30	20	50	100	150	3
6	BHUT401	Universal Human Values-2	2	1	0	30	20	50	50	100	3

PRACTICAL / TRAINING / PROJECT

1	BECP 402	Database Management Systems	0	0	2	-	20	20	30	50	2
2	BECP 403	Software Engineering	0	0	2	-	20	20	30	50	2
3	BEEP 404	Computer Org. & Architecture	0	0	2	-	20	20	30	50	2
4	BEEP 404	Theory of Automata and	0	0	2	-	20	20	30	50	2
5	BCST 408	Cyber Security and S/W Tools	0	0	2	-	20	20	30	50	-
		Total	15	5	10					1000	27

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FIFTH SEMESTER

SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total	Credits
								Seasonal Exam	ESE		

THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	BCST 501	Operating System	3	1	0	30	20	50	100	150	3
2	BCST -502	Computer Networks	3	1	0	30	20	50	100	150	3
3	BCST -503	Design and Analysis of Algorithms	3	1	0	30	20	50	100	150	3
4	BCST -504	Java Programming	3	1	0	30	20	50	100	150	2
5	BOCS -505	Principles of Programming Language	3	1	0	30	20	50	100	150	2

PRACTICAL / TRAINING / PROJECT

1	BCSP- 501	Operating System	0	0	2	-	20	20	30	50	2
2	BCSP- 502	Computer Networks	0	0	2	-	20	20	30	50	2
3	BCSP-503	Design and Analysis of	0	0	2	-	20	20	30	50	2
4	BCSP-504	Java Programming Lab	0	0	2	-	20	20	30	50	2
5	BCST -508	Evaluation of Internship-II	0	0	2	-	20	20	30	50	2
		Total	15	5	10	-	-	-		1000	23

SIXTH SEMESTER

1	BCST-601	Microprocessors and	3	1	0	30	20	50	100	150	3
2	BCST -602	Compiler Design	3	1	0	30	20	50	100	150	3
3	BCST -603	Data Analytics	3	1	0	30	20	50	100	150	3
4	BCST -604	Data Mining	3	1	0	30	20	50	100	150	2
5	BOCS -605	Machine Learning	3	1	0	30	20	50	100	150	2

PRACTICAL / TRAINING / PROJECT

1	BCSP-601	Microprocessors and	0	0	2	-	20	20	30	50	2
2	BCSP-602	Compiler Design	0	0	2	-	20	20	30	50	2
3	BCSP-603	Data Analytics	0	0	2	-	20	20	30	50	2
4	BCSP-606	Python Lab	0	0	2	-	20	20	30	50	1
5	BCSP -607	Minor Project -I	0	0	2	-	-	-	50	50	1
		Total	15	5	10					1000	21

BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE)

SEVENTH SEMESTER

SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total
								Seasonal Exam	ESE	

Theory Courses

			L	T	P	CT	TA	Total	ESE	
1	TCS-701	System Administration	3	1	0	30	20	50	100	150
2	TCS -702	Advance Computer Architecture	3	1	0	30	20	50	100	150
3	TCS -703	Data Warehousing & Mining	3	1	0	30	20	50	100	150
4	TEC-301	Digital Electronics & Design Aspect	3	1	0	30	20	50	100	150
5	TCS-07X	ELECTIVE-I	3	1	0	30	20	50	100	150
6	TOE-XX	Open Elective	3	1	0	30	20	50	100	150

PRACTICAL / TRAINING / PROJECT

1	PCS -757	Project	0	0	4	0	0	50	50	100
2	PCS-758	Industrial Interaction/ Seminar (Term Paper)	0	0	2	-	25	25	25	50
3	PCS-751	System Administration	0	0	2	-	25	25	25	50
4		Discipline	0	0	0	-	-	50		50
		Total	18	6	8	-	-	-		1000

EIGHT SEMESTER

Theory Courses

1	TCS-801	Distributed Computing	3	1	0	30	20	50	100	150
2	TCS-802	Web Technology	3	0	0	30	20	50	100	150
3	TCS-02X	ELECTIVE-II	3	1	0	30	20	50	100	150
4	TCS-03X	ELECTIVE-III	3	1	0	30	20	50	100	150

PRACTICAL / TRAINING / PROJECT

1	PCS-857	Project	0	0	6	-	-	100	200	300
2	PCS-852	Web Technology Lab.	0	0	2	-	-	50	-	50
3		Discipline	0	0		-	-	50	-	50
		Total	12	3	0	-	-	-		1000

LIST OF ELECTIVE SUBJECTS

ELECTIVE I

TCS-071
TCS-072
TCS-073
TCS-074

Digital Image Processing
Soft Computing
Wireless Networks
Information Security

ELECTIVE II

TCS-081
TCS-082
TCS-083
TCS-084

Parallel Computing
Database Administration
Advance Computer Network
Fault Tolerant Computing

ELECTIVE III

TCS-086
TCS-087
TCS-088
TCS-089

Computer Vision
Advanced DBMS
Intrusion Detection Systems
Cryptography & Network Security