

## 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		
<b>THEORY COURSES</b>												
			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									
<b>PRACTICAL / TRAINING / PROJECT</b>												
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	
<b>SECOND SEMESTER</b>												
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	-	
<b>PRACTICAL / TRAINING / PROJECT</b>												
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

# BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE)

## 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	TEC-301	Discrete Structures	3	1	0	30	20	50	100	150	4
2	TCS-302	Computer Based Numerical & Statistical Techniques	2	0	0	15	10	25	50	75	2
3	TCS-303	Data Structures	3	1	0	30	20	50	100	150	4
4	TEC-301	Digital Electronics & Design Aspect	3	1	0	30	20	50	100	150	4
5	TCS-304	Object Oriented Programming	3	1	0	30	20	50	100	150	4
6	THU-301	Engineering Economics & Costing	2	0	0	15	10	25	50	75	2

### PRACTICAL / TRAINING / PROJECT

1	PCS-350	Digital Electronics Lab	0	0	2	-	25	25	25	50	2
2	PCS-302	Computer Based Numerical & Statistical Techniques Lab	0	0	2	-	25	25	25	50	2
3	PCS-303	Data Structure Lab	0	0	2	-	25	25	25	50	2
4	PCS-304	Object Oriented programming Lab using Java/C++	0	0	2	-	25	25	25	50	2
5	PD III /GP III	Personality Development/ General Proficiency	0	0	2	-	-	50		50	-
		Total	16	4	10	-	-	-		1000	28

## FOURTH SEMESTER

1	TCS-401	Computer Organization	3	1	0	30	20	50	100	150	4
2	TCS-402	UNIX & Shell Programming	2	0	0	15	20	25	50	75	2
3	TCS-403	Theory Of Automata & Formal Language	3	1	0	30	20	50	100	150	4
4	TCS-404	Database Management System	3	1	0	30	20	50	100	150	4
5	TCS-405	Microprocessor	3	1	0	30	20	50	100	150	4
6	TCS-406	Software Engineering	2	0	0	15	20	25	50	75	2

### PRACTICAL / TRAINING / PROJECT

1	PCS-402	UNIX & Shell Programming Lab	0	0	2	-	25	25	25	50	2
2	PCS-404	Database Management System Lab	0	0	2	-	25	25	25	50	2
3	PCS-405	Microprocessor Lab	0	0	2	-	25	25	25	50	2
4	PCS-407	Seminar-I	0	0	2	-	25	25	25	50	2
5	PD IV /GP IV	Personality Development/ General Proficiency	0	0	2	-	25	25	25	50	-
		Total	16	4	10					1000	28

# BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE)

## 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	TCS – 501	Computer Graphics	3	1	0	30	20	50	100	150	4
2	TCS – 502	Computer Network	3	1	0	30	20	50	100	150	4
3	TCS – 503	Design & Analysis of Algorithm	3	1	0	30	20	50	100	150	4
4	TCS – 504	Principles of Programming Languages	2	1	0	15	10	25	50	75	2
5	TCS – 505	Advance Java Programming	3	1	0	30	20	50	100	150	4
6	TCS – 506	Modeling & Simulation	2	0	0	15	10	25	50	75	2

### PRACTICAL / TRAINING / PROJECT

1	PCS -551	Computer Graphics Lab.	0	0	2	-	25	25	25	50	2
2	PCS-552	Computer Network Lab.	0	0	2	-	25	25	25	50	2
3	PCS-553	Algorithms Lab.	0	0	2	-	25	25	25	50	2
4	PCS-555	Adv. Java Lab.	0	0	2	-	25	25	25	50	2
5		Discipline	0	0	2	-	-	50		50	-
		Total	16	4	10	-	-	-		1000	28

## SIXTH SEMESTER

1	TCS – 601	Operating System	3	1	0	30	20	50	100	150	4
2	TCS – 602	Compiler Design	3	1	0	30	20	50	100	150	4
3	TCS – 603	Artificial Intelligence	3	1	0	30	20	50	100	150	4
4	TCS – 604	Graph Theory	2	1	0	15	10	25	50	75	2
5	TCS – 605	Visual Programming & Dot net Technology	3	1	0	30	20	50	100	150	4
6	THU – 608	Principles of Management	2	0	0	15	20	25	50	75	2

### PRACTICAL / TRAINING / PROJECT

1	PCS-651	Operating System Lab.	0	0	2	-	25	25	25	50	2
2	PCS-652	Compiler Design Lab.	0	0	2	-	25	25	25	50	2
3	PCS-653	Artificial Intelligence Lab.	0	0	2	-	25	25	25	50	2
4	PCS-655	Visual Programming Lab.	0	0	2	-	25	25	25	50	2
5		Discipline	0	0	2	-	-	50	-	50	-
		Total	16	4	10					1000	28

# 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
		<b>Total</b>	<b>18</b>	<b>6</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>1000</b>

## 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
		<b>Total</b>	<b>12</b>	<b>3</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>1000</b>

### LIST OF ELECTIVE SUBJECTS

#### ELECTIVE I

TCS-071 TCS-072 TCS-073 TCS-074	Digital Image Processing Soft Computing Wireless Networks Information Security
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#### ELECTIVE II

TCS-081 TCS-082 TCS-083 TCS-084	Parallel Computing Database Administration Advance Computer Network Fault Tolerant Computing
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#### ELECTIVE III

TCS-086 TCS-087 TCS-088 TCS-089	Computer Vision Advanced DBMS Intrusion Detection Systems Cryptography & Network Security
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