

Department of Information Technology

COMMON FIRST YEAR PROGRAM STRUCTURE FOR ALL B.TECH BRANCHES

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

BACHELOR OF TECHNOLOGY (INFORMATION TECHNOLOGY)

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	BAST 301	Energy & Environmental	3	1	0	30	20	50	100	150	4
2	BITT-302	Discrete Structure	3	1	0	30	20	50	100	150	4
3	BITT-303	Data Structure	3	1	0	30	20	50	100	150	3
4	BECT-303	Digital Electronics	3	1	0	30	20	50	100	150	3
5	BITT-305	Object Oriented Prog. & Methodology	3	1	0	30	20	50	100	150	3

PRACTICAL / TRAINING / PROJECT

1	BITP 303	Data Structure	0	0	2		20	20	30	50	2
2	BITP 304	Digital Electronics	0	0	2		20	20	30	50	2
3	BITP 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

THEORY COURSES

1	BCET 401	Energy & Environmental	3	1	0	30	20	50	100	150	4
2	BITT 402	Database Management	3	1	0	30	20	50	100	150	3
3	BITT 403	Software Engineering	3	-	0	30	20	50	100	150	3
4	BITT 404	Computer Org. & Architecture	3	1	0	30	20	50	100	150	3
5	BITT 405	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	BCEP 402	Database Management	0	0	2	-	20	20	30	50	2
2	BCEP 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	17	5	10	-	-	-	-	1100	27

BACHELOR OF TECHNOLOGY ()

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	BCSP- 501	Operating System	3	1	0	30	20	50	100	150	3
2	BCSP- 502	Computer Networks	3	1	0	30	20	50	100	150	3
3	BCSP-503	Design and Analysis of Algorithms	3	1	0	30	20	50	100	150	3
4	BITT -504	Java Programming	3	1	0	30	20	50	100	150	2
5.	BOIT -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	BITP-504	Java Programming Lab	0	0	2	-	20	20	30	50	2
5	BITP-507	Evaluation of Internship-II	0	0	2	-	20	20	30	50	2
		Total	15	5	10					1000	23

SIXTH SEMESTER

THEORY COURSES

1	BCST 601	Microprocessors and	3	1	0	30	20	50	100	150	3
2	BITT -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	BIIT -604	Data Mining	3	1	0	30	20	50	100	150	2
5	BOIT -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	BITT-602	Compiler Design	0	0	2	-	20	20	30	50	2
3	BITT-604	Data Analytics	0	0	2	-	20	20	30	50	2
4	BITP-606	Python Lab Matlab Programming	0	0	2	-	20	20	30	50	1
5	BITP -607	Minor Project -I	0	0	2	-	-	-	50	50	1
		Total	15	5	10	-	-	-	-	1000	21

Department of Information Technology

BACHELOR OF TECHNOLOGY (INFORMATION TECHNOLOGY)

SEVENTH 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	TIT- 701	System Administration	3	1	0	30	20	50	100	150	4
2	TIT- 702	Data Warehousing & Mining	3	1	0	30	20	50	100	150	4
3	TIT- 703	Information Security	3	1	0	30	20	50	100	150	4
4	TIT- 07X	ELECTIVE-I	3	1	0	30	20	50	100	150	4
5	TOE –XX	Open Elective	3	1	0	30	20	50	100	150	4

PRACTICAL / TRAINING / PROJECT

1	PIT -757	Project	0	0	4	-	0	50	50	100	4
2	PIT-758	Industrial Interaction/ Seminar (Term Paper)	0	0	2	-	0	50	-	50	2
3	PIT-751	System Administration Lab.	0	0	2	-	25	25	25	50	2
4		Discipline	-	-	2	-	-	-	-	50	-
		Total	15	5	10					1000	28

EIGHT SEMESTER

THEORY COURSES

1	TIT -801	Software Architecture	3	1	0	30	20	50	100	150	4
2	TIT -802	Cryptography & Network Security	3	1	0	30	20	50	100	150	4
3	TIT-08X	ELECTIVE-II	3	1	0	30	20	50	100	150	4
4	TIT-08X	ELECTIVE-III	3	1	0	30	20	50	100	150	4

PRACTICAL / TRAINING / PROJECT

1	PIT-857	Project	0	0	6	-	0	100	200	300	6
2	PIT-852	Cryptography Lab	0	0	2	-	25	25	25	50	2
3		Discipline	-	-	2	-	-	-	-	50	-
		Total	12	4	10	-	-	-	-	1000	24

ELECTIVE-I

TIT-071	Software Configuration Management
TIT-072	Advance Information System Engineering
TIT-073	Wireless Networks
TIT-074	Soft Computing
TIT-075	Multi Media Communication & Design

ELECTIVE-II

TIT-081	IT Infrastructure Management
TIT-082	Client Server Based IT Solutions
TIT-083	Database Administration
TIT-084	Advance Computer Network

ELECTIVE-III

TIT-086	Software Quality Engineering
TIT-087	Distributed Computing
TIT-088	Intrusion Detection
TIT-089	Advanced DBMS