

DEPARTMENT OF INFORMATION TECHNOLOGY

SCHEME OF B.E. (INFORMATION TECHNOLOGY)

*TAE will be based on Home Assignment, Seminar, Quiz, Surprise Test, Group Discussion, Debate, General Behavior, Attentiveness and Attendance

Semester III

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper Hours	
							Theory			Practical			Total
		Th	Tu	Pr	Total		TAE (20)	CAE (20)	ESE (20)	Cont. Ass.	Ext.		
BCOL201	Data Structures	3	1	-	4	4	20	20	60	-	-	100	3
BCOP201	Data Structures	-	-	2	2	1	-	-	-	25	25	50	--
BCOL203	Computer Architecture & Organization	4	-	-	4	4	20	20	60	-	-	100	3
BAML204	Applied Mathematics – III	4	1	-	5	5	20	20	60	-	-	100	3
BITL201	Internet Technologies	3	-	-	3	3	20	20	60	-	-	100	3
BITP201	Internet Technologies	-	-	2	2	1	-	-	-	25	-	25	-
BITL202	Object Oriented Programming	3	1	-	4	4	20	20	60	-	-	100	3
BITP202	Object Oriented Programming	-	-	2	2	1	-	-	-	25	-	25	-
BITP203	Software Lab	-	-	4	4	2	-	-	-	25	25	50	-
BITGP204	General Proficiency:-II: Foreign Language	1	-	2	3	-	-	-	-	-	-	-	-
Heads	TOTAL	18	3	12	33	25	100	100	300	100	50	650	

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Semester IV

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper Hours	
							Theory			Practical			Total
		Th	Tu	Pr	Total		TAE (20)	CAE (20)	ESE (20)	Cont. Ass.	Ext.		
BCOL202	Microprocessor Based Systems	3	1	-	4	4	20	20	60	-	-	100	3
BCOP202	Microprocessor Based Systems	-	-	2	2	1	-	-	-	25	-	25	-
BCOL207	Theory of Computation	3	1	-	4	4	20	20	60	-	-	100	3
BCOL206	Graph Theory & Combinatorics	4	-	-	4	4	20	20	60	-	-	100	3
BCOL302	Design & Analysis of Algorithms	4	1	-	5	5	20	20	60	-	-	100	3
BCOP302	Design & Analysis of Algorithms	-	-	2	2	1	-	-	-	25	25	50	-
BCOL209	Data Communication	3			3	3	20	20	60	-	-	100	3
BCOP209	Data Communication	-	-	2	2	1	-	-	-	25	-	25	--
BITGP205	General Proficiency:-III: Hobby classes	1	-	2	3	Audit course	-	-	-	-	-	-	-
Heads	TOTAL	18	3	8	29	23	100	100	300	75	25	600	

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Semester V

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper Hours
							Theory			Practical		Total	
		Th	Tu	Pr	Total		TAE (20)	CAE (20)	ESE (20)	Cont. Ass.	Ext.		
BITL301	Service Oriented Architecture	4	-	-	4	4	20	20	60	-	-	100	3
BITP301	Service Oriented Architecture Lab	-	-	2	2	1	-	-	-	25	--	25	-
BITL302	Network Architecture & Protocols	3	-	-	3	3	20	20	60	-	-	100	3
BCOL301	Database Management System	3	1	-	4	4	20	20	60	-	-	100	3
BCOP301	Database Management System	-	-	2	2	1	-	-	-	25	25	50	-
BCOL208	Operating system	4	-	-	4	4	20	20	60	-	-	100	3
BCOP208	Shell Programming	-	-	4	4	2	-	-	-	25	-	25	--
BITL303	Software Engineering	3	-	-	3	3	20	20	60	-	-	100	3
BITGP306	General Proficiency- IV Communication Skill	2	-	-	2	Audit course	-	-	-	-	-	-	-
Heads	TOTAL	19	1	8	28	22	100	100	300	75	25	600	

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Semester VI

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper Hours	
							Theory			Practical			Total
		Th	Tu	Pr	Total		TAE (20)	CAE (20)	ESE (20)	Cont. Ass.	Ext.		
SEM-VI													
BITL304	Computer System Security	3	-	-	3	3	20	20	60	-	-	100	3
BITP304	Computer System Security	-	-	2	2	1	-	-	-	25	25	50	3
BCOL307	Language Processor	3	1	-	4	4	20	20	60	-	-	100	3
BCOP307	Language Processor	-	-	2	2	1	-	-	-	25	25	50	-
BHUL100	Engineering Economics & Industrial Management	3	-	-	3	3	20	20	60	-	-	100	3
BITLXXX	Elective –I	3	-	-	3	3	20	20	60	-	-	100	3
BITLXXX	Elective –II	3	-	-	3	3	20	20	60	-	-	100	3
XXXLXXX	Open Elective:	3	-	-	3	3	20	20	60	-	-	100	3
BITP305	Mini Project	-	-	4	4	2	-	-	-	50	-	50	-
BITGP307	General Proficiency-V "Employability Skills & Technical Report Writing"	2	-	-	2	Audit course	-	-	-	-	-	-	-
BITGP308	General Proficiency-VI Research Methodology workshop	2	-	-	2	Audit course	-	-	-	-	-	-	-
Heads	TOTAL	22	1	8	31	23	120	120	360	100	50	750	

Elective –I: BCOL311- Pattern Recognition BENL413 -Wireless Communication BITL401 –Human Computer Interaction BCOL313 – Computer Graphics & Visualization BCOL314-Software Architecture BXXLXX – Industry Offered	Elective II : BCOL315-Machine Learning BCOL316-Mobile Computing BENL410 -Embedded Systems BENL405- Digital Signal Processing BITL415- Software Modeling & Design BXXLXX – Industry Offered
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OPEN ELECTIVES:

S.N.	Code	Course Name
1	BAML301	Optimization Techniques
2	BCVL430	Environmental Science
3	BENL417	Sensors & Transducers
4	BENL430	Intellectual Patent Rights
5	BHUL414	Bio Systems in Engineering
6	BHUL415	Constitution of India
7	BMEL410	Nanotechnology
8	BMEL402	Unconventional Energy Sources
9	BMEL403	Reliability Engineering
10	BMEL204	Material Science

S.N.	Code	Course Name
11	BCOL413	Genetic Engineering
12	BENL300	Fuzzy Logic
13	BENL212	Principles of Management
14	BMEL210	Industrial & resource Management
15	BCOL209	Project Management

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Semester VII

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper Hours	
							Theory			Practical			Total
		Th	Tu	Pr	Total		TAE (20)	CAE (20)	ESE (20)	Cont. Ass.	Ext.		
BITL413	Real Time Operating System	3			3	3	20	20	60			100	3
BITP413	Real Time Operating System			2	2	1				25	25	50	
BITL404	Information Retrieval	3			3	3	20	20	60			100	3
BITP404	Information Retrieval			2	2	1				25	25	50	
BITL410	Software Testing	3			3	3	20	20	60			100	3
BITP410	Software Testing Lab			2	2	1				25	25	50	
BITLXXX	Elective –III	3			3	3	20	20	60			100	3
BITLXXX	Elective –IV	3			3	3	20	20	60			100	3
BITP406	Project			8	8	8				100	100	200	
Heads	TOTAL	15	--	14	29	26	100	100	300	175	175	850	

<p>Elective –III:</p> <p>BCOL403- Soft Computing BENL428- Wireless Sensor Networks BITL414 -Distributed Operating System BENL409 - DIGITAL IMAGE PROCESSING BITL307- Scripting Language BXXLXX – Industry Offered</p>	<p>Elective -IV :</p> <p>BCOL404- BIO-INFORMATICS BCOL405-Cloud Computing BCOL406- Mobile Operating System BCOL407 -Game Theory BCOL408- E- Commerce BXXLXX – Industry Offered</p>
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Semester VIII

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper Hours	
							Theory			Practical			Total
		Th	Tu	Pr	Total		TAE (20)	CAE (20)	ESE (20)	Cont. Ass.	Ext.		
BITP402	Industry Internship			16	16	16				--	200	200	---
BITP412	Self Study			4	4	2	-			50		50	---
Heads	TOTAL			20	20	18				50	200	250	