New Syllabus For B.E
Department of Information Technology

1st Year 1st semester							
Code	**Subject**	**Pds / week**			**Cre dit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/111	Introduction to Programming	3	0	0	3	100	
IT/PHY/T/112	Physics-IA	3	0	0	3	100	
IT/IEE/T/113	Basic Electronics	3	0	0	3	100	
IT/MATH/T/114	Mathematics I (Modules 1 and 2)	3	0	0	3	100	
IT/PE/T/115	Engineering Mechanics	3	0	0	3	100	
IT/PE/T/116	Electrical Circuits	3	0	0	3	100	
IT/IEE/S/111	Basic Electronics Laboratory	0	0	3	3		100
IT/ S/112	Programming Laboratory	0	0	3	3		100
IT/PE/S/113	Engineering Drawing	0	0	3	3		100
IT/PE/S/114	Workshop	0	0	3	3		100
	Sub- Total	18	0	12	30	600	400
	Total		30			1000	

1st Year 2nd semester							
Code	**Subject**	**Pds / week**			**Cre dit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/121	Data Structures & Algorithms	3	0	0	3	100	
IT/ MATH/T /122	Mathematics II (Modules 5 and 6)	3	0	0	3	100	
IT/IEE/T/123	Digital Logic & Digital Circuit	3	0	0	3	100	
IT/ PE /T/124	Electrical Measurements	3	0	0	3	100	
IT/PHY/T/125	Physics II A	3	0	0	3	100	
IT/Hum/T/126	English For Communication & Social Studies	3	0	0	3	100	
IT/ S/121	Data Structure Laboratory*	1	0	3	3		100
IT/IEE/S/122	Digital Logic Laboratory	0	0	3	3		100
IT/PE/S/123	Electrical Technology Laboratory	0	0	3	3		100
	Sub- Total	19	0	9	27	600	300
	Total				28	900	
* Laboratory has to be allocated in continuous 4 periods							

2nd Year 1st semester							
Code	**Subject**	**Pds / week**			**Cre dit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/211	Object Oriented programming	3	0	0	3	100	
IT/ MATH/T /212	Mathematics – III (Modules 3 and 10)	3	0	0	3	100	
IT/T/213	Database Management Systems	3	0	0	3	100	
IT/T/214	Principles of Communication Engineering	3	0	0	3	100	
IT/T/215	Computer Graphics	3	0	0	3	100	
IT/T/216	Computer Architecture	3	0	0	3	100	
IT/ S/211	Object Oriented programming Laboratory	0	0	3	3		100
IT/ S/212	Database Management Systems Laboratory	0	0	3	3		100
IT/ S/213	Programming Practice laboratory*	1	0	3	3		100
	Sub- Total	19	0	9	27	600	300
	Total			28	27	900	
* Laboratory has to be allocated in continuous 4 periods							

2nd Year 2nd semester							
Code	**Subject**	**Pds / week**			**Cre dit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/221	Object Oriented Systems	3	0	0	3	100	
IT/ MATH/T/222	Mathematics – IV (Modules 8 and 12)	3	0	0	3	100	
IT/T/223	Software Engineering	3	0	0	3	100	
IT/ T/224	Microprocessors	3	0	0	3	100	
IT/T/225	Computer Networks	3	0	0	3	100	
IT/T226	Numerical Methods & Optimization Techniques	3	0	0	3	100	
IT/ S/211	Object Oriented Programming Laboratory – II	0	0	3	3		100
IT/ S/212	Microprocessor Laboratory*	1	0	3	3		100
IT/ S/213	Numerical Analysis Laboratory	0	0	3	3		100
	Sub- Total	19	0	9	3	600	300
	Total			28	27	900	
* Laboratory has to be allocated in continuous 4 periods							

3rd Year 1st Semester							
Code	**Subject**	**Pds / week**			**Cre dit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/311	Multimedia Coding & communications	3	0	0	3	100	
IT/T/312	Wireless Networks	3	0	0	3	100	
IT/T/313	Graph Theory	3	0	0	3	100	
IT/T/314	Web Technologies – I	3	0	0	3	100	
IT/T/315	Principles of Compiler Design	3	0	0	3	100	
IT/T/316	Operating Systems	3	0	0	3	100	
IT/ S/311	Multimedia Laboratory	0	0	3	3		100
IT/ S/312	Systems Programming Laboratory*	1	0	3	3		100
IT/ S/313	Operating System Laboratory	0	0	3	3		100
	Sub- Total	19	0	9	27	600	300
	Total	28			27	900	
* Laboratory has to be allocated in continuous 4 periods							

3rd Year 2nd Semester							
Code	**Subject**	**Pds / week**			**Cre dit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/321	Design & Analysis of Algorithm	3	0	0	3	100	
IT/T/322	Cryptography & Network Security	3	0	0	3	100	
IT/T/323	Distributed Systems: Algorithms	3	0	0	3	100	
IT/T/324	Web Technologies – II	3	0	0	3	100	
IT/T/325	Formal language & Automata Theory	3	0	0	3	100	
IT/T/326	Elective – I	3	0	0	3	100	
IT/ S/321	Web Application Laboratory	0	0	3	3		100
IT/ S/322	Software Laboratory – I*	1	0	3	3		100
IT/ S/323	Software Laboratory – II	0	0	3			100
	Sub- Total	19	0	9	9	600	300
	Total	28			27	900	
* Laboratory has to be allocated in continuous 4 periods							

Elective I: Computational Geometry, Mathematical Methods, Artificial Intelligence

4th Year 1st Semester							
Code	**Subject**	**Pds / week**			**Credit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/411	Elective – I	3	0	0	3	100	
IT/T/412	Elective – II	3	0	0	3	100	
IT/T/413	Image Processing	3	0	0	3	100	
IT/T/414	Economics	3	0	0	3	100	
IT/ S/411	Image Processing Laboratory	0	0	3	3		100
IT/ S/312	Project Laboratory*	1	0	3	4		100
IT/ S/313	Seminar	0	0	3	3		100
	Sub- Total	13	0	9	22	400	300
	Total	21			22	700	
* Laboratory has to be allocated in continuous 4 periods							

Elective – II: Parallel Algorithms and Architectures, Fuzzy Logic & Neural Computing
Elective – III: Data Mining / Real Time and Embedded Systems

4th Year 2nd Semester							
Code	**Subject**	**Pds / week**			**Credit**	**Marks**	
		L	**T**	**S**		**Exam**	**Sessional**
IT/T/421	Distributed System & Applications	3	0	0	3	100	
IT/T/422	Management	3	0	0	3	100	
IT/T/423	Elective – IV	3	0	0	3	100	
IT/T/424	Digital Signal Processing	3	0	0	3	100	
IT/ S/421	Comprehensive Viva Voce	0	0	3	3		100
IT/ S/422	Project	0	0	3	4		100
IT/ S/423	Seminar	0	0	3	3		100
	Sub- Total	12	0	9	22	400	300
	Total	21			22	700	

Elective – IV: Cluster and Grid Computing, Bio Informatics, Pattern Recognition