



**B.E COMPUTER SCIENCE AND ENGINEERING
 (FOUR YEAR FULL TIME)
 CURRICULUM 2009
 SEMESTER I**

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
XCS101	Technical English	3	1	0	4
XCS102	Mathematics- I	3	1	0	4
XCS103	Computer Programming	4	0	0	4
XCS104	Applied Chemistry	3	1	0	4
XCS105	Engineering Graphics	2	0	3	4
XCS106	Electric Circuits and Electronic Devices	3	1	0	4
PRACTICAL					
XCS107	Computer Programming Lab	0	0	3	2
XCS108	Applied Chemistry Lab	0	0	3	2
XCS109	Basic Workshop Practices	0	0	3	2

Total Hours: 34

Total Credits: 30

SEMESTER II

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
XCS201	Mathematics - II	3	1	0	4
XCS202	Computer Architecture	3	1	0	4
XCS203	Applied Physics	3	1	0	4
XCS204	Digital principles and system design	3	0	0	3
XCS205	Engineering Mechanics	3	1	0	4
XCS206	Problem Solving Techniques	3	1	0	4
PRACTICAL					
XCS207	Applied Physics Lab	0	0	3	2
XCS208	Communication Skills Enhancement	0	0	3	2
XCS209	Digital Systems Lab	0	0	3	2

Total Hours: 32

Total Credits: 29



SEMESTER III

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
XCS301	Discrete Mathematics	4	0	0	4
XCS302	Professional Ethics and Human Values	3	0	0	3
XCS303	Microprocessors and Micro Controllers	3	1	0	4
XCS304	Signals and Systems	3	1	0	4
XCS305	System Software	3	0	0	3
XCS306	Data Structures	3	0	0	3
PRACTICAL					
XCS307	Microprocessors and Micro Controllers Lab	0	0	3	2
XCS308	Data Structures Lab	0	0	3	2

Total Hours : 27

Total Credits: 25

SEMESTER IV

CODE NO	COURSE TITLE	L	T	P	C
THEORY					
XCS401	Probability and Queuing Theory	3	1	0	4
XCS402	Environmental Science and Engineering	3	0	0	3
XCS403	Analog and Digital Communication	3	0	0	3
XCS404	Operating System	3	0	0	3
XCS405	Design and Analysis of Algorithm	3	1	0	4
XCS406	Object Oriented Programming	3	0	0	3
PRACTICAL					
XCS407	Object Oriented Programming Lab	0	0	3	2
XCS408	Operating System and System software Lab	0	0	3	2

Total Hours : 26

Total Credits: 24



SEMESTER V

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
XCS501	Numerical methods	3	1	0	4
XCS502	Software Engineering	3	0	0	3
XCS503	Digital Signal Processing	3	1	0	4
XCS504	Computer Networks	3	0	0	3
XCS505	Theory of Computation	3	1	0	4
XCS506	Database Management System	3	1	0	4
PRACTICAL					
XCS507	Network Programming Lab	0	0	3	2
XCS508	Database Management System Lab	0	0	3	2

Total Hours:28

Total Credits: 26

SEMESTER VI

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
XCS601	Distributed Computing	3	1	0	4
XCS602	Web Technology	3	0	0	3
XCS603	Principles of Compiler Design	3	1	0	4
XCS604	Information System Design	3	0	0	3
XCS605	Total Quality Management	3	0	0	3
XCS6E**	Elective-I	3	0	0	3
PRACTICAL					
XCS607	Web Technology Lab	0	0	3	2
XCS608	Compiler Design Lab	0	0	3	2

Total Hours : 26

Total Credits: 24



SEMESTER VII

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
XCS701	Artificial Intelligence and Neural Networks	4	0	0	4
XCS702	Object Oriented Analysis and Design	3	0	0	3
XCS703	Graphics and Multimedia	3	0	0	3
XCS704	Social Engineering	3	0	0	3
XCS7E**	Elective – II	3	0	0	3
XCS7E**	Elective – III	3	0	0	3
PRACTICAL					
XCS707	CASE Tools Lab	0	0	3	2
XCS708	Graphics and Multimedia Lab	0	0	3	2
XCS709	Mini Project	0	0	8	4

Total Hours : 33

Total Credits: 27

SEMESTER VIII

CODE NO.	COURSE TITLE	L	T	P	C
THEORY					
XCS801	Entrepreneurial Development systems	3	0	0	3
XCS8E**	Elective – IV	3	0	0	3
XCS8E**	Elective – V	3	0	0	3
PRACTICALS					
XCS803	Project Work	0	0	24	12

Total Hours:33

Total Credits: 21

Over all Credits: 205



LIST OF ELECTIVES

** Elective Code No	Course Title	L	T	P	C
51	Software Testing	3	0	0	3
52	Embedded Systems	3	0	0	3
53	Data Warehousing and Mining	3	0	0	3
54	Advanced Databases	3	0	0	3
55	Real Time Systems	3	0	0	3
56	TCP/IP Design and Implementation	3	0	0	3
57	System Modelling & Simulation	3	0	0	3
58	High Performance Computing	3	0	0	3
59	C# and .NET Framework	3	0	0	3
60	Natural Language Processing	3	0	0	3
61	Advanced Computer Architecture	3	0	0	3
62	Cryptography and Network Security	3	0	0	3
63	Soft Computing	3	0	0	3
64	Digital Image Processing	3	0	0	3
65	Robotics	3	0	0	3
66	Software Quality Management	3	0	0	3
67	Grid Computing	3	0	0	3
68	Bio Informatics	3	0	0	3
69	Component Based Technology	3	0	0	3
70	Mobile Communication	3	0	0	3

NOTE:

L → LECTURE HOURS

T → TUTORIAL HOURS

P → PRACTICAL HOURS

C → CREDITS HOURS

