



NAAC ACCREDITED
M. Sc (SOFTWARE ENGINEERING)
(FIVE YEARS INTEGRATED COURSE)
CURRICULUM 2009
SEMESTER I

Code No.	Course Title	L	T	P	C
THEORY					
YSE101	Technical English	3	0	0	3
YSE102	Mathematics- I	4	0	0	4
YSE103	Computer Hardware	4	0	0	4
YSE104	Fundamentals of Computer Science	4	0	0	4
YSE105	Fundamentals of Digital Computers	4	0	0	4
PRACTICAL					
YSE106	Software Lab	0	0	3	2
YSE107	Digital Electronics Lab	0	0	3	2
YSE108	Hardware Lab	0	0	3	2

Total Hours: 28

Total Credits:25

SEMESTER II

Code No.	Course Title	L	T	P	C
THEORY					
YSE201	Mathematics - II	4	0	0	4
YSE202	Applied Physics	4	0	0	4
YSE203	Computer Organization and Architecture	4	0	0	4
YSE204	Programming in C	4	0	0	4
YSE205	COBOL Programming	4	0	0	4
PRACTICAL					
YSE206	C Programming Lab	0	0	3	2
YSE207	COBOL Lab	0	0	3	2
YSE208	Communication Lab	0	0	3	2

Total Hours: 29

Total Credits:26



SEMESTER III

Code No.	Course Title	L	T	P	C
THEORY					
YSE301	Mathematics - III	4	0	0	4
YSE302	Data Structures	4	0	0	4
YSE303	Object Oriented Programming and C++	3	1	0	4
YSE304	Database Management Systems	4	0	0	4
YSE305	System Software and Operating System	3	1	0	4
YSE306	Structured System Analysis and Design	3	0	0	3
PRACTICAL					
YSE307	OOPS & Data Structures Lab	0	0	3	2
YSE308	RDBMS Lab	0	0	3	2

Total Hours: 29

Total Credits:27

SEMESTER IV

Code No.	Course Title	L	T	P	C
THEORY					
YSE401	Discrete Mathematics	4	0	0	4
YSE402	Microprocessors and Assembly Programming	4	0	0	4
YSE403	Computer Networks	3	1	0	4
YSE404	Design and Analysis of Algorithms	4	0	0	4
YSE405	Software Engineering	3	1	0	4
YSE406	Principles of Data Communication	3	1	0	4
PRACTICAL					
YSE407	Microprocessor Lab	0	0	3	2
YSE408	Algorithms Lab	0	0	3	2

Total Hours: 30

Total Credits:28

SEMESTER V

Code No.	Course Title	L	T	P	C
THEORY					
YSE501	Principles of Compiler Design	3	1	0	4
YSE502	Java Programming	3	1	0	4
YSE503	Software Project Management	3	1	0	4
YSE504	Object Oriented Analysis and Design	4	0	0	4
YSE505	Environmental Sciences and Engineering	3	0	0	3
YSE506	Wireless Technology	4	0	0	4
PRACTICAL					
YSE507	UML and Design Lab	0	0	3	2
YSE508	JAVA Programming Lab	0	0	3	2

Total Hours: 29

Total Credits:27

SEMESTER VI

Code No.	Course Title	L	T	P	C
THEORY					
YSE601	Advanced Database Management Systems	4	0	0	4
YSE602	Visual Programming	4	0	0	4
YSE603	Artificial Intelligence	4	0	0	4
YSE604	Professional Ethics and Human Values	3	0	0	3
YSE605	Software Architecture	4	0	0	4
PRACTICAL					
YSE606	Visual Programming Lab	0	0	3	2
YSE607	Mini Project -I	0	0	6	3

Total Hours: 28

Total Credits:24

SEMESTER VII

Code No.	Course Title	L	T	P	C
THEORY					
YSEE**	Elective - I	4	0	0	4
YSEE**	Elective - II	4	0	0	4
YSE703	Data Mining and Data Warehousing	3	1	0	4
YSE704	Software Design	3	1	0	4
YSE705	C# and .NET	4	0	0	4
YSE706	Entrepreneurial Development Management	3	0	0	3
PRACTICAL					
YSE707	C# and .NET Lab	0	0	3	2
YSE708	Data Mining Lab	0	0	3	2

Total Hours: 29

Total Credits:27

SEMESTER VIII

Code No.	Course Title	L	T	P	C
THEORY					
YSE801	Software Testing and Quality Assurance	3	1	0	4
YSE802	Software Reuse	3	1	0	4
YSE803	Component based development	4	0	0	4
YSE804	Social Engineering	3	0	0	3
YSEE**	Elective – III	4	0	0	4
YSEE**	Elective – IV	4	0	0	4
PRACTICAL					
YSE807	Software Testing Lab	0	0	3	2
YSE808	Mini Project-II	0	0	6	3

Total Hours: 32

Total Credits:28

SEMESTER IX

Code No.	Course Title	L	T	P	C
THEORY					
YSE901	Software Documentation	3	0	0	3
YSE902	Web Technologies	4	0	0	4
YSE903	Mobile Computing	4	0	0	4
YSE904	Total Quality Management	4	0	0	4
YSEE**	Elective – V	4	0	0	4
PRACTICAL					
YSE906	Web Technologies Lab	0	0	3	2
YSE907	Main Project Phase – I	0	0	6	3
TOTAL		19	0	9	24

Total Hours: 28

Total Credits:24

SEMESTER X

Code No.	Course Title	L	T	P	C
PROJECT					
YSE1001	Main Project Phase-II	0	0	24	12

Over all Credits: 248

ELECTIVES

CODE.NO	COURSE TITLE	L	T	P	C
YSEE51	Distributed Computing	4	0	0	4
YSEE52	Information Security	4	0	0	4
YSEE53	Grid Computing	4	0	0	4
YSEE54	Software Quality Management	4	0	0	4
YSEE55	Software reliability	4	0	0	4

YSEE56	Soft Computing	4	0	0	4
YSEE57	User Interface Design	4	0	0	4
YSEE58	Ad hoc Networks	4	0	0	4
YSEE59	Advanced Java Programming	4	0	0	4
YSEE60	Software Agents	4	0	0	4
YSEE61	Network security	4	0	0	4
YSEE62	Pervasive computing	4	0	0	4
YSEE63	Cryptography	4	0	0	4
YSEE64	Advanced Computer Architecture	4	0	0	4
YSEE65	Modelling and Simulation	3	1	0	4
YSEE66	Theory of Computation	4	0	0	4
YSEE67	Client Server Computing	3	1	0	4
YSEE68	Fundamentals Of Multimedia	4	0	0	4
YSEE69	Image Processing	4	0	0	4
YSEE70	Network Protocols	3	1	0	4
YSEE71	Random Processes	4	0	0	4
YSEE72	Probability and Queuing Theory	4	0	0	4
YSEE73	Distributed System Design	4	0	0	4
YSEE74	Bioinformatics	4	0	0	4
YSEE75	Parallel Computing	4	0	0	4

- L** → LECTURE HOURS
T → TUTORIAL HOURS
P → PRACTICAL HOURS
C → CREDITS HOURS