

VELS UNIVERSITY					
SCHOOL OF ENGINEERING					
M.E. COMPUTER SCIENCE AND ENGINEERING					
CURRICULUM					
First Semester					
S.No	TITLE OF THE PAPER	EXAM HOURS	INTERNAL MARK	UNIVERSITY MARK	CREDIT
1	Operations Research	3	25	75	4
2	Advanced Data Structures and Algorithms	3	25	75	3
3	Advanced Computer Architecture	3	25	75	3
4	Object Oriented Systems Engineering	3	25	75	3
5	Network Engineering and Management	3	25	75	3
6	Data Structures Laboratory	3	25	75	2
Total No of Credits					18
Second Semester					
1	UNIX Internals	3	25	75	3
2	Compiler Optimization	3	25	75	3
3	Advanced Database Technology	3	25	75	3
4	Parallel Algorithms	3	25	75	3
5	Mobile and Pervasive Computing	3	25	75	3
6	Elective - 1	3	25	75	3
7	UNIX Laboratory	3	25	75	2
Total No of Credits					20
THIRD SEMESTER					
1	Security Principles and Practice	3	25	75	3
2	Elective - ii	3	25	75	3
3	Elective - iii	3	25	75	3
4	Project Phase - I	3	25	75	6
Total No of Credits					15
Fourth Semester					
1	Project Phase - II	3	25	75	12
Total No of Credits					12
Total No of Credits		65			
No of Theory Courses		14			
No of Lab Courses		4			

List of Electives					
Sl.No.	TITLE OF THE PAPER	EXAM HOURS	INTERNAL MARK	UNIVERSITY MARK	CREDIT
1	Component Based Development	3	25	75	3
2	Performance Evaluation of Systems and Networks	3	25	75	3
3	Knowledge Engineering	3	25	75	3
4	Visualization Techniques	3	25	75	3
5	Infometrics	3	25	75	3
6	User Interface Design	3	25	75	3
7	Speech Processing	3	25	75	3
8	Bio informatics	3	25	75	3
9	Soft Computing	3	25	75	3
10	Language Technologies	3	25	75	3
11	Knowledge Management	3	25	75	3
12	ASIC Design	3	25	75	3
13	Embedded Systems	3	25	75	3
14	Data Warehousing and Data Mining	3	25	75	3
15	Integrated Software Project Management	3	25	75	3
16	Principles of Multimedia	3	25	75	3
17	Digital Image Processing	3	25	75	3
18	Adhoc and Sensor Networks	3	25	75	3
19	Virtualization Techniques	3	25	75	3
20	Service Oriented Architecture	3	25	75	3
21	Ethical Hacking and Digital Forensics	3	25	75	3
22	Cloud Computing	3	25	75	3
23	Machine Learning	3	25	75	3
24	Database Tuning	3	25	75	3
25	Enterprise Resource Planning	3	25	75	3
26	Human Resources Management	3	25	75	3
27	Multicore Architecture	3	25	75	3