

VELS UNIVERSITY					
SCHOOL OF ENGINEERING					
M.E. COMMUNICATION SYSTEMS ENGINEERING					
CURRICULUM					
First Semester					
Sl.No.	TITLE OF THE PAPER	EXAM HOURS	INTERNAL MARK	UNIVERSITY MARK	CREDIT
1	Applied Mathematics for Communication Engg.	3	25	75	4
2	Statistical Signal Processing	3	25	75	3
3	Advanced Radiation systems	3	25	75	3
4	Advanced Digital Communication Techniques	3	25	75	3
5	Fiber Optic Networking	3	25	75	3
6	Elective I	3	25	75	3
7	Communication System Design Laboratory	3	25	75	2
Total No of Credits					21
Second Semester					
1	Wireless Networks	3	25	75	3
2	RF System Design	3	25	75	3
3	Elective II	3	25	75	3
4	Elective III	3	25	75	3
5	Elective IV	3	25	75	3
6	Elective V	3	25	75	3
7	RF and Networks Laboratory	3	25	75	2
Total No of Credits					20
THIRD SEMESTER					
1	Elective VI	3	25	75	3
2	Elective VII	3	25	75	3
3	Elective VIII	3	25	75	3
4	Project Work - Phase I	3	25	75	6
Total No of Credits					15
Fourth Semester					
1	Project Work - Phase II	3	25	75	12
Total No of Credits					12
Total No of Credits		68			
No of Theory Courses		15			
No of Lab Courses		4			

List of Electives					
Sl.No	TITLE OF THE PAPER	EXAM	INTERNAL	UNIVERSITY MARK	CREDIT
1	Electromagnetic Interference and Compatibility in System Design	3	25	75	3
2	High Speed Switching Architectures	3	25	75	3
3	Microwave Integrated Circuits	3	25	75	3
4	Multimedia Communication	3	25	75	3
5	Satellite Communication	3	25	75	3
6	Digital Image Processing	3	25	75	3
7	Digital Communication Receivers	3	25	75	3
8	Mobile AD-HOC Networks	3	25	75	3
9	CDMA Engineering	3	25	75	3
10	Space Time Wireless Communication	3	25	75	3
11	Network Routing Algorithms	3	25	75	3
12	Network Management	3	25	75	3
13	Communication Network Security	3	25	75	3
14	Soft Computing	3	25	75	3
15	Telecommunication System Modeling and Simulation	3	25	75	3
16	Wireless Sensor Networks	3	25	75	3
17	Advanced Microwave Communication	3	25	75	3
18	Virtualization Techniques	3	25	75	3
19	Service Oriented Architecture	3	25	75	3
20	Ethical Hacking and Digital Forensics	3	25	75	3
21	Cloud Computing	3	25	75	3
22	Machine Learning	3	25	75	3
23	Database Tuning	3	25	75	3
24	Enterprise Resource Planning	3	25	75	3
25	Human Resources Management	3	25	75	3
26	Multicore Architecture	3	25	75	3