SCHEME OF COURSES FOR BE (Electronics and Communications Engineering) 2009-2013

First Seme	ester					
	Course Name	L	Т	P	Total Hours/ Week	Cr.
UEN001	Environment Studies	3	0	0	3	3.0
UMA001	Mathematics –I	3	1	0	4	3.5
UPH001	Physics	3	1	2	6	4.5
UTA002	Manufacturing Processes	2	0	3	5	3.5
UES001	Electrical & Electronics Science	3	1	2	6	4.5
UES005	Electrical Engineering Materials	3	1	2	6	4.5
		17	4	9	30	23.5
Second Se	mester	1	-1	ı	'	ı
UHU001	Communication Skills	2	0	2	4	3.0
UMA002	Mathematics –II	3	1	0	4	3.5
UTA001	Engineering Graphics	2	4	0	6	4.0
UTA003	Computer Programming	3	0	2	5	4.0
UES007	Semiconductor Devices	3	1	2	6	4.5
UPH201	Advanced Engineering Physics	3	1	0	4	3.5
UCB002	Chemistry Lab	0	0	3	3	1.5
		16	7	9	32	24.0
Third Sem	ester	1	-	1	1	11
UHU031	Organizational Behaviour	3	1	0	4	3.5
UMA031	Optimization Techniques	3	1	0	4	3.5
UES033	Measurement Science and Techniques	3	1	0	4	3.5
UEC301	Analog Electronic Circuits	3	1	2	6	4.5

UEC302	Digital Electronic Circuits	3	1	2	6	4.5
UEE302	Electro Magnetic Field Theory	3	1	0	4	3.5
		18	6	4	28	23.0
Fourth Sea	mester					
UMA032	Numerical & Statistical Methods	3	1	2	6	4.5
UHU033	Total Quality Management	3	1	0	4	3.5
UEC401	Analog Communication Systems	3	1	2	6	4.5
UEC504	Microprocessors	3	1	2	6	4.5
UEC403	Circuit Analysis and Synthesis	3	1	0	4	3.5
UEC404	Signals & Systems	3	1	2	6	4.5
		18	6	8	32	25.0
Fifth Semo	ester	<u> </u>		<u> </u>		I
UEC501	Digital Communication Systems	3	1	2	6	4.5
UEC502	Digital Signal Processing	3	1	2	6	4.5
UEC613	Linear Integrated Circuit Analysis	3	1	2	6	4.5
UEC402	Computer Architecture	3	1	0	4	3.5
UEC505	Microwave Engineering	3	1	2	6	4.5
UEC506	Microelectronics – IC Design and Fab	3	1	0	4	3.5
UEC591	Six Weeks Summer Training	-	-	-	-	4.0
		18	6	8	32	29.0
Sixth Sem	ester	1	<u> </u>		I	
UEC601	Antenna Theory and Wave Propagation	3	1	2	6	4.5
UEC602	Data Communication	3	0	0	3	3.0
UEC603	Microcontrollers & Embedded Systems	3	1	2	6	4.5

UCS	Data Structures & Analysis	3	0	2	5	4.0
	Elective-I	3	1	2	6	4.5
	Elective –II	3	1	2	6	4.5
	CAPSTONE Project – Part A (Starts) 4 Self Effort Hours	_	-	-	-	2.0
		18	4	10	32	27.0
Seventh S	Semester	<u> </u>				
UEC802	Fiber Optic Communication	3	1	2	6	4.5
UEC803	Radar, Satellite and Navigational Aids	3	1	0	4	3.5
UEC804	Wireless and Mobile Communication	3	1	2	6	4.5
UHU081	Engineering Economics	3	1	0	4	3.5
UEC604	Modern Control Theory	3	1	0	4	3.5
	Elective-III	3	1	0	4	3.5
	CAPSTONE Project – Part B (Continues) 6 Self effort Hours	-	-	-	-	3.0
		18	6	4	28	26.0
Eighth Sea	mester					
	Project Semester	-	-	-	-	16.0
OR		<u> </u>				
UEC701	ASICs and FPGAs	3	0	0	3	3.0
	Elective-IV	2	1	2	5	3.5
	Elective –V	3	1	0	4	3.5
UEC792	Project	-	-	12	12	6.0
		8	2	14	24	16.0
Total		1				193.5

List of Electives

Elective -I

Course No.	Course Name	L	T	P	Total Hours / week	Cr.
UEC611	Audio & Speech Processing	3	1	2	6	4.5
UEC612	Digital Systems Design	3	1	2	6	4.5
UEC614	Telecommunication Engineering	3	1	2	6	4.5

Elective –**II**

Course No.	Course Name	L	T	P	Total Hours / week	Cr.
UEC621	CMOS Circuit Design	3	1	2	6	4.5
UEC622	DSP Processors	3	1	2	6	4.5
UEC623	FPGA Based Systems	3	1	2	6	4.5
UEC624	Soft Computing Techniques	3	1	2	6	4.5

Elective –III

Course No.	Course Name	L	T	P	Total Hours / week	Cr.
UEC851	VLSI Digital Signal Processing	3	1	0	4	3.5
UEC852	Wireless Sensor Networks	3	1	0	4	3.5
UEC853	Wireless Adhoc Networks	3	1	0	4	3.5
UEC503	Information Theory and Coding	3	1	0	4	3.5
UEC801	Advanced Solid State Devices	3	1	0	4	3.5

Elective –IV

Course	Course Name	L	T	P	Total Hours	Cr.
No.					/ week	
UEI717	Bio-Medical Engineering	3	1	0	4	3.5
UEI718	Virtual Instrumentation Engineering	2	1	2	5	3.5
UTA004	Information Technology	2	1	2	5	3.5
UCH715	Alternate Energy Sources	3	1	0	4	3.5
UPH062	Nano Science and Nano Materials	3	1	0	4	3.5
UMA062	Graph Theory and Applications	3	1	0	4	3.5

Elective -V

Course No.	Course Name	L	T	P	Total Hours / week	Cr.
UEC741	Artificial Intelligence	3	1	0	4	3.5
UEC742	MEMS	3	1	0	4	3.5
UEC743	Reliability Engineering	3	1	0	4	3.5

Total Number of Credits: 193.5