



**B.E - ELECTRONICS AND COMMUNICATION ENGINEERING
 (FOUR YEAR FULL TIME)
 CURRICULUM 2009**

SEMESTER I

Code No.	Course Title	L	T	P	C
THEORY					
XEC 101	Technical English	3	1	0	4
XEC 102	Mathematics- I	3	1	0	4
XEC 103	Applied Physics	3	1	0	4
XEC 104	Applied Chemistry	3	1	0	4
XEC 105	Computer Programming	4	0	0	4
XEC 106	Basic Electrical and Electronics Engineering	3	0	0	3
PRACTICAL					
XEC 107	Applied Physics Lab	0	0	3	2
XEC 108	Applied Chemistry Lab	0	0	3	2
XEC 109	Computer Programming Lab	0	0	3	2

Total Hours: 32

Total Credits: 29



SEMESTER II

Code No.	Course Title	L	T	P	C
THEORY					
XEC 201	Mathematics – II	3	1	0	4
XEC 202	Engineering Graphics	2	0	3	4
XEC 203	Electron Devices	3	0	0	3
XEC 204	Circuit Analysis	3	1	0	4
XEC 205	Electronic Circuits-I	3	1	0	4
XEC 206	Electrical Machines	4	0	0	4
PRACTICAL					
XEC 207	Basic Workshop Practice	0	0	3	2
XEC 208	Communication Skills Enhancement	2	0	2	3
XEC 209	Electronic Devices and Circuits-I Lab	0	0	3	2

Total Hours: 35

Total Credits: 30

SEMESTER III

Code No.	Course Title	L	T	P	C
THEORY					
XEC301	Professional Ethics and Human values(ECE)	3	0	0	3
XEC 302	Mathematics-III	3	1	0	4
XEC 303	Signals and Systems	3	1	0	4
XEC 304	Data Structures	3	1	0	4
XEC 305	Electromagnetic Fields	3	0	0	3
XEC 306	Electronic Circuits-II	3	0	0	3
PRACTICAL					
XEC 307	Data Structures Lab	0	0	3	2
XEC 308	Electronic Circuits II and Simulation Lab	0	0	3	2

Total Hours: 27

Total Credits: 25



SEMESTER IV

Code No.	Course Title	L	T	P	C
THEORY					
XEC 401	Environmental Science and Engineering	3	0	0	3
XEC 402	Random Process	3	1	0	4
XEC 403	Measurements and instrumentation	3	0	0	3
XEC 404	Transmission Lines and wave guides	3	1	0	4
XEC 405	Digital Electronics	3	1	0	4
XEC 406	Linear Integrated Circuits	3	0	0	3
PRACTICAL					
XEC 407	Linear Integrated Circuit Lab	0	0	3	2
XEC 408	Digital Electronics Lab	0	0	3	2

Total Hours: 27

Total Credits: 25

SEMESTER V

Code No.	Course Title	L	T	P	C
THEORY					
XEC 501	Total Quality Management	3	0	0	3
XEC 502	Numerical methods	3	1	0	4
XEC 503	Digital Signal Processing	3	1	0	4
XEC 504	Communication theory	3	1	0	4
XEC 505	Microprocessor and Microcontroller	3	0	0	3
XEC 506	Control Systems	3	1	0	4
PRACTICAL					
XEC 507	Digital Signal Processing Lab	0	0	3	2
XEC 508	Microprocessor and Microcontroller Lab	0	0	3	2

Total Hours: 28

Total Credits: 26



SEMESTER VI

Code No.	Course Title	L	T	P	C
THEORY					
XEC 601	Digital Communication	3	0	0	3
XEC 602	Computer Networks	3	0	0	3
XEC 603	Antenna and wave Propagation	3	0	0	3
XEC 604	Embedded Systems	3	0	2	4
XEC 605	Television and Video Engineering	3	0	0	3
XECE**	Elective I	3	0	0	3
PRACTICAL					
XEC 607	RF and Communication Lab	0	0	3	2
XEC 608	Networks Lab	0	0	3	2

Total Hours: 26

Total Credits: 23

SEMESTER VII

Code No.	Course Title	L	T	P	C
THEORY					
XEC 701	Entrepreneurial Development Management	3	0	0	3
XEC702	VLSI Design	4	0	0	4
XEC703	Optical Communication	3	0	0	3
XEC704	Microwave Engineering	4	0	0	4
XECE**	Elective II	3	0	0	3
XECE**	Elective III	3	0	0	3
PRACTICAL					
XEC 707	VLSI Lab	0	0	3	2
XEC 708	Microwave Lab and Optical Lab	0	0	3	2
XEC709	Mini Project	0	0	3	4

Total Hours: 29

Total Credits: 28

SEMESTER VIII

Code No.	Course Title	L	T	P	C
THEORY					
XEC 801	Social Engineering	3	0	0	3
XEC802	Mobile communication	3	0	0	3
XECE**	Elective IV	3	0	0	3
PRACTICAL					
XEC 804	Project Work	0	0	24	12

Total Hours: 33

Total Credits: 21

Over all Credits: 211



LIST OF ELECTIVES

Code No.	Course Title	L	T	P	C
E51	Advanced Microprocessor	3	0	0	3
E52	Medical Electronics	3	0	0	3
E53	Operating Systems	3	0	0	3
E54	Solid State Electronic Devices	3	0	0	3
E55	Speech Processing	3	0	0	3
E56	Object oriented Programming	3	0	0	3
E57	Computer Hardware and Interfacing	3	0	0	3
E58	Internet and Java	3	0	0	3
E59	Advanced Digital Signal Processing	3	0	0	3
E60	Electromagnetic Interference and Compatibility	3	0	0	3
E61	High Speed Networks	3	0	0	3
E62	Power Electronics	3	0	0	3
E63	Soft Computing	3	0	0	3
E64	RF Circuit Design	3	0	0	3
E65	Digital Image Processing	3	0	0	3
E66	Computer Architecture	3	0	0	3
E67	Wireless networks	3	0	0	3
E68	Telecommunication Switching and Networks	3	0	0	3
E69	Satellite communication	3	0	0	3
E70	Advanced Electronic system design	3	0	0	3
E71	Optoelectronic devices	3	0	0	3
E72	Telecommunication System Modeling and Simulation	3	0	0	3
E73	Radar and Navigational Aids	3	0	0	3
E74	FPGA based system design	3	0	0	3
E75	Network security and cryptography	3	0	0	3
E76	Wireless security	3	0	0	3
E77	Adaptive optics	3	0	0	3
E78	Open source technologies	3	0	0	3
E79	Remote Sensing	3	0	0	3
E80	Engineering Acoustics	3	0	0	3
E81	Analog Interfacing to Microprocessor Systems	3	0	0	3
E82	Intellectual Property Rights	3	0	0	3
E83	Indian Constitution and Society	3	0	0	3

NOTE:

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

