

B. Tech. COURSE STRUCTURE

ELECTRONICS & COMMUNICATION ENGINEERING

Modified Course structure effective from July, 2008 batch

3rd Semester:

Code	Subject	L-T-P	Credit
EC 201	Electrical Science - II	3-1-0	8
EC 202*	Electrical Science lab	0-0-2	2
MA 201	Mathematics - III	3-1-0	8
HU 201	Humanities - II (Industrial Sociology and Accountancy)	3-0-0	6
CS 201	Data Structures	3-1-2	10
EC 203	Introduction to Semiconductor Devices	3-0-0	6
MA 202	Probability Theory and Stochastic Processes	3-1-0	8
TOTAL		18-4-4	48

4th Semester:

Code	Subject	L-T-P	Credit
EE 301	Control Systems - I	3-0-0	6
EE 302	Control Systems Lab	0-0-2	2
EC 210	Signals & Systems	3-1-0	8
EC 204	Digital Electronic Circuits	3-1-0	8
EC 209	Digital Electronic Circuits Lab	0-0-2	2
EC 205	Electromagnetic Field and Wave Propagation	3-1-0	8
EC 206	Communication Engineering - I	3-1-0	8
EC 207	Linear Electronic Circuits	3-1-0	8
EC 208	Linear Electronic Circuits Lab	0-0-2	2
TOTAL		18-5-6	52

5th semester:

Code	Subject	L-T-P	Credit
MA 301	Numerical Methods & Computations	2-1-0	6
CS 301	System Programming	3-1-0	8
CS 303	Computer Organization and Architecture	3-1-0	8
EC 301	Communication Engineering - II	3-1-0	8
EC 303	Microprocessors & Microcontrollers	3-0-0	6
EC 305	Advanced Electronic Circuits	3-0-2	8
EC 311	Communication Engineering Lab - I	0-0-2	2
EC 313	Microprocessors & Microcontroller Lab	0-0-2	2
Total		17-4-6	48

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6th semester:

Code	Subject	L-T-P	Credit
HU 301	Humanities - III (Managerial Economics)	3-1-0	8
EC 302	Digital Signal Processing	3-0-2	8
EC 304	Electronic Measurements & Instruments	3-0-0	6
EC 306	Integrated Circuits & Systems	3-0-0	6
EC 308	RF and Microwave Engineering	3-0-0	6
CS 306	Computer Networks	3-1-0	8
EC 312	DSP Lab	0-0-2	2
Total		18-2-4	44

7th semester:

Code	Subject	L-T-P	Credit
EC 401	VLSI Design	3-0-2	8
EC 403	Telecommunication Switching	3-0-0	6
EC 405	Optoelectronics & Optical Communication	3-0-0	6
EC 42X	Elective-I	3-0-0	6
EC 42X	Elective-II	3-0-0	6
EC 406	Project - I	0-0-6	6
EC 411	Communication Engineering Lab-II	0-0-2	2
EC 315	Industrial Training	0-0-2	2
Total		15-0-12	42

8th Semester:

Code	Subject	L-T-P	Credit
HU 401	Management and Economics of Globalisation	3-0-0	6
CE 414	Environmental Studies	3-0-0	6
EC 43X	Elective - III	3-0-0	6
EC/CS 43Y	Elective - IV	3-0-0	6
EC 43Y	Open / Institute Elective	3-0-0	6
EC 407	Project - II	0-0-15	15
Total		15-0-15	45

Grand Total Credit Points = 377

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Elective - I & II

EC 421	Biomedical Instrumentation
EC 423	Higher Power Semiconductor Devices
EC 424	Satellite Communication
EC 425	Image Processing and its Applications
EC 426	Embedded System Design
EC 427	Information Theory, Error Coding and Applications
CS 421	Digital Image Processing
CS 422	Information Theory and Coding
CS 427	Artificial Intelligence

Elective -III & IV

EC 431	Low Power VLSI Design.
EC 432	Simulation of Circuits and Devices
EC 433	Wireless Communication
EC 434	Antenna and Wave Propagation
EC 435	Fault Tolerant System
EC 436	Telemetry
EC 437	Adaptive Signal Processing
EC 438	Fuzzy Logic and Neural Networks
CS 431	Pattern Recognition

Institute/Open Elective

CS 442	Object Oriented System Design
EC 441	MEMS

Institute/Open Elective

CS 441	Neural Network
EC 442	Industrial Electronics

* To be shared between Electrical and Electronics & Communication Engineering Departments