B. Tech. COURSE STRUCTURE

3rd Semester:

Code	Subject	L-T-P	Credit
MA 201	Mathematics-III	3-1-0	8
MA 202	Probability Theory & Stochastic Processes	3-1-0	8
HU 201	Humanities - II (Industrial Sociology and	2.0.0	6
	Accountancy)	3-0-0	
EC 201	Electrical Science - II	3-1-0	8
EC 202*	Electrical Science Lab	0-0-2	2
CS 201	Data Structure	3-1-2	10
CS 202	Introduction to Switching Theory	3-0-0	6
	TOTAL		48

4th Semester:

Code	Subject	L-T-P	Credit
MA 203	Discrete Mathematics	3-1-0	8
EC 210	Signals & Systems	3-1-0	8
EC 204	Digital Electronic Circuits	3-1-0	8
EC 209	Digital Electronics Circuits Lab	0-0-2	2
CS 203	Graph Theory	3-1-0	8
CS 204	Principles of Programming Languages	3-1-0	6
CS 205	Formal Language and Automata Theory	3-1-0	8
	TOTAL		48

5th semester

Code	Subject	L-T-P	Credit
MA 301	Numerical Methods and Computations	2-1-0	6
EC 303	Microprocessors and Microcontrollers	3-0-0	6
EC 313	Microprocessors and Microcontrollers Lab	0-0-2	2
EC 321	Data Communication	3-0-0	6
CS 301	System Programming	3-1-0	8
CS 302	Computer Graphics	3-1-2	10
CS 303	Computer Organization and Architecture	3-1-0	8
	Total	17-4-4	46

B. Tech. COURSE STRUCTURE

6th semester

Code	Subject	L-T-P	Credit
HU 301	Humanities - III (Managerial Economics)	3-1-0	8
CS 304	Design and Analysis of Algorithms	3-1-0	8
CS 305	Compiler Design	3-1-0	8
CS 306	Computer Networks	3-1-0	8
CS 307	Database Management Systems	3-0-2	8
CS 308	Operating Systems	3-0-2	8
	Total	18-4-4	48

7th semester

Code	Subject	L-T-P	Credit
EC 401	VLSI Design	3-0-2	8
CS 401	Software Engineering	3-0-2	8
CS 402	Advanced Computer Architecture	3-1-0	8
CS 403	Theory of Computation	3-1-0	8
XX 4XX	Elective I	3-0-0	6
CS 404	Project - I	0-0-6	10
CS 405	Industrial Training	0-0-2	2
	Total	15-2-12	50

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
XX 4XX	Elective II	3-0-0	6
XX 4XX	Elective III	3-0-0	6
XX 44X	Institutional Elective	3-0-0	6
CS 406	Project - II	0-0-15	10
	Total	15-0-15	40

Grand total credit points: 378

Electives:

Elective I:

CS 421 Digital Image Processing

CS 422 Information Theory and Coding

CS 423 Distributed Systems

CS 424 Mobile Adhoc Networks

CS 425 Data Warehousing and Data Mining

CS 426 Parallel Algorithms

CS 427 Artificial Intelligence

B. Tech. COURSE STRUCTURE

Electives II & III:

- CS 431 Pattern Recognition
- CS 432 Advanced topics in Distributed Systems
- CS 433 Topics in Multimedia Technology
- CS 434 Topics in Network Security
- CS 435 System Analysis and Design
- CS 436 Wireless Sensor Networks
- CS 437 Enterprise Resource Planning
- CS 438 Distributed Algorithms
- CS 439 Linux Operating System
- CS 440 Human Computer Interaction
- EC 433 Wireless Communication
- EC 435 Fault Tolerant Systems

Institutional Elective:

- CS 441 Neural Network
- CS 442 Object-Oriented System Design

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