

**B.Tech (Information Technology)**

Semester	1	2	3	4	5	6	7	8	Discipline /NSS		CH	IC	PC	PE	OE	Total
I & II									1			45				45
III	IT-221 Discrete Structures (3-1-0) 4	IT-223 Data Structures and Algorithms (3-0-0) 3	IT-225 Formal Languages and Automata Theory (3-0-0) 3	IT-251 Data Structure and Algorithm Lab (0-0-3) 2	EC-251 Electronics Devices and Circuits (3-0-2) 4	EC-253 Switching Theory & Finite Automata (3-0-0) 3	Open Elective I 4			23			19	4		23
IV	HS-200 Social Science and Economics 2	IT-222 Data Base Modelling and Administration (4-0-0) 4	IT-226 Operating System (3-0-0) 3	IT-228 Computer Architecture (3-0-0) 3	IT-250 DBMS Lab (0-1-3) 3	IT-252 OS Lab (0-0-3) 2	Open Elective II 4	Creative Arts/ Sports/ NSS/ Hindi 1	Discipline 1	23	4	15		4		23
V	IT-321 Information System Security (3-0-0) 3	IT-323 E-Commerce and Web Applications (3-0-0) 3	IT-325 Computer Network & Administration (3-0-0) 3	IT-351 Information System Security Lab (0-0-3) 2	IT-353 Web based Development Lab (0-0-3) 2	IT-355 Network Programming & Administration Lab (0-0-3) 2	Program Elective I 4	Open Elective III 4		23			15	4	4	23
VI	IT-322 Software Engg. (3-0-0) 3	IT-324 Compiler Design (3-0-0) 3	IT-350 Compiler Lab (0-0-3) 2	IT-352 Free and Open Source Lab (0-0-3) 2	IT-354 Seminar (0-3-0) 3	Program Elective II 4	Open Elective IV 4		Discipline 1	22	1	13	4	4		22
VII	IT-451 Industrial Training (0-3-0) 3	Program Elective III 4	Program Elective IV 4	Program Elective V 4	IT-453 Design Elective 6	Open Elective V 4				25			3	18	4	25
VIII	IT-452 Project 10	Program Elective VI 4	Program Elective VII 4						Discipline 1	19	1	10	8	0		19
Total Credi											180	<b>51</b>	<b>75</b>	<b>34</b>	<b>20</b>	<b>180</b>

**Program Elective I**

IT-371 Programming in Java  
 IT-373 Python Programming  
 IT-375 Scripting Language  
 IT-377 Management Information Systems

**Program Elective II**

IT-370 Signals and Systems  
 IT-372 Object Oriented System Design  
 IT-374 Multimedia Technology  
 IT-376 Artificial Intelligence

**Program Elective III**

IT-471 Computer Graphics  
 IT-473 Human Computer Interaction  
 IT-475 GUI Programming  
 IT-477 Selected Topics in OS  
 IT-479 Mobile and Wireless Computing

**Program Elective IV**

IT-481 Advanced Compiler  
 IT-483 Design and Analysis of Algorithm  
 IT-485 Semantic Web  
 IT-487 Data Mining and Data Warehousing  
 IT-489 Implementation of Data Bases

**Program Elective V**

IT-491 Information Retrieval  
 IT-493 Wireless Sensor Networks  
 IT-495 Topics in High Speed Networking  
 IT-497 Digital Watermarking and Steganography  
 IT-499 Software Project Management

**Program Elective VI**

IT-470 Digital Forensics  
 IT-472 Biometric Security  
 IT-474 VLSI Algorithms  
 IT-476 Intrusion Detection  
 IT-478 Pattern Recognition

**Program Elective VII**

IT-480 Multi-Core Architectures  
 IT-482 Software Testing  
 IT-484 Distributed Systems  
 IT-486 Advanced Topics in Data Bases  
 IT-488 Expert Systems