B.Tech (CSE)Scheme

As Per 15 Dec. 2018 BOS

III SEM

Course Number	Subject	Scheme of Studies Periods Per Week			Credits
		L	T	P	
CSE 211	Discrete Structures	3	1	-	3
CSE 212	Data Structures	3	1	-	3
CSE 213	Digital Electronics	3	1	-	3
CSE 214	Data Communication	3	1	-	3
CSE 215	Principles of Programming Languages	3	1	-	3
CSE 216	Linear Algebra & Numerical Methods	3	1	-	3
CSE 217	Data Structures Lab	-	-	2	1
CSE 218	Digital Electronics Lab			2	1
CSE 219	Principles of Programming Languages Lab	-	-	2	1
CSE 220	Python & VHDL Lab			2	1
					Total Credit 22

IV SEM

Course Number	Subject	Scheme of Studies Periods Per Week			Credits	
		L	T	P		
CSE 221	Probability & Queuing Theory	3	1	-	3	
CSE 222	Computer Architecture	3	1	-	3	
CSE 223	Theory of Computation	3	1	-	3	
CSE 224	Database Management System	3	1	-	3	
CSE 225	Analysis & Design of Algorithms	3	1	-	3	
CSE 226	Software Engineering	3	1	-	3	
CSE 227	Database Management System Lab	-	-	2	1	
CSE 228	Analysis & Design of Algorithms Lab	-	-	2	1	
CSE 229	Software Engineering Lab	-	-	2	1	
CSE 230	Java & PHP Lab	-	-	2	1	
						Total Credit 22

V SEM

Course Number	Subject	Scheme of Studies Periods Per Week			Credits	
		L	T	P		
CSE 311	Compiler Design	3	1	-	3	
CSE 312	Operating System	3	1	-	3	
CSE 313	Microprocessor	3	1	-	3	
	Departmental Elective 1	3	1	-	3	
	Departmental Elective 2	3	1	-	3	
	Open Elective 1	3	1	-	3	
CSE 315	Compiler Design Lab	-	-	2	1	
CSE 316	Microprocessor Lab	-	-	2	1	
CSE 317	Operating System Lab	-	-	2	1	
CSE 318	Android & MATLAB Lab			2	1	
CSE 319	Minor Project				1	
						Total Credit 23

VI SEM

Course Number	Subject	Scheme of Studies Periods Per Week			Credits	
		L	T	P		
CSE 321	Computer Networks	3	1	-	3	
CSE 322	Data Warehousing & Mining	3	1	-	3	
CSE 323	Artificial Intelligence	3	1	-	3	
	Departmental Elective 3	3	1	-	3	
	Departmental Elective 4	3	1	-	3	
	Open Elective 2	3	1	-	3	
CSE 325	Computer Networks Lab	-	-	2	1	
CSE 326	Data Warehousing & Mining Lab	-	-	2	1	
CSE 328	Hadoop & CUDA Lab			2	1	
CSE 329	Minor Project	-	-	-	2	
						Total Credit 23

List of V & VI Semester Departmental Electives

CSE 331	**Advanced Computer Architecture**
CSE 332	**Software Reusability**
CSE 333	**CAD of Digital Systems**
CSE 334	**Parallel & Distributed Algorithms**
CSE 335	**Distributed Databases**
CSE 336	**Embedded Systems**
CSE 337	**Cryptography**
CSE 338	**Heterogeneous Computing**
CSE 339	**Digital Image Processing**
CSE 341	**E-Commerce & E-Governance**
CSE 342	**Advanced Data Structures**
CSE 343	**Computer Graphics**
CSE 344	**Data Science**
HUM 457	**Professional Communication**

List of V & VI Semester Open Electives

CSE 351	**Multimedia**
CSE 352	**Object-Oriented Design & Modeling**
CSE 353	**Simulation & Modeling**
CSE 354	**UNIX Internals & Shell Programming**
CSE 355	**Information Theory & Coding**
CSE 356	**Statistical Methods**

VII SEM

Course Number	Subject	Scheme of Studies Periods Per Week			Credits
		L	T	P	
CSE 411	TCP/IP & Web Technology	3	1	-	3
	Departmental Elective 5	3	1	-	3
	Departmental Elective 6	3	1	-	3
	Open Elective 3	3	1	-	3
CSE 416	Network Security	3	1	-	3
CSE 412	TCP/IP & Web Technology Lab	-	-	2	1
CSE 413	Major Project	-	-	-	2
CSE 414	Internship/Industrial Training			-	1
CSE 415	Seminar	-	-	2	1
					Total Credit 20

VIII SEM

Course Number	Subject	Scheme of Studies Periods Per Week			Credits
		L	T	P	
	Open Elective 4	3	1	-	3
	Departmental Elective 7	3	1	-	3
	Departmental Elective 8	3	1	-	3
	Open Elective 5	3	1	-	3
	Open Elective 6	3	1	-	3
CSE 422	Major Project	-	-	-	2
CSE 423	General Proficiency	-	-	-	2
CSE 424	Seminar	-	-	2	1
					Total Credit 20

List of VII & VIII Semester Departmental Electives

CSE 431	**Software Testing**
CSE 432	**Cloud Computing**
CSE 433	**Distributed Computing**
CSE 434	**Pattern Recognition**
CSE 435	**Computer Vision**
CSE 436	**Randomized Algorithms**
CSE 437	**Natural Language Processing**
CSE 438	**Mobile Computing**
CSE 439	**Quantum Computing**
CSE 441	**Sensor Networks**
CSE 442	**Web Search & Mining**
CSE 443	**Big Data Technologies**
CSE 444	**Soft Computing**
CSE 445	**Internet of Things**

List of VII & VIII Semester Open Electives

CSE 451	**Graph Theory**
CSE 452	**Optimization Techniques**
CSE 453	**Cyber crime and Information Warfare**
CSE 454	**Wireless Networks**
CSE 455	**Neural Networks**
CSE 456	**Ethical Hacking**
CSE 457	**Biometrics**
CSE 458	**Machine Learning**
CSE 459	**Integer Programming**
CSE 460	**Support Vector Machine**

Details of Core & Electives Offered By Department (Third Semester Onwards)

Total Number of Subject Offered By CSE	**58**
Number of Core Subjects	**20**
Number of Departmental Electives	**08/28**
Number of Open Electives	**06/16**