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**