

B.TECH. 4 YEAR PROGRAMME

INFORMATION TECHNOLOGY

SCHEME 2019-20
(1st, 2nd, 3rd, 4th, 5th & 6th Semester)

Detailed Scheme for B.Tech. IT

B.Tech. – IT (First Semester)

CourseNo.	Subject	Scheme of Studies Periods per Week			Credits
		L	T	P	
MTH 101	Engineering Mathematics I	3	1	-	4
PHY 101	Engineering Physics I	3	1		4
CS 101	Fundamentals of Computer Programming	2	1	2	4
EE 101	Fundamentals of Electrical & Electronics	2	1	2	4
HUM 101	Effective Communication and soft skills	2	1	2*	4
IT 101	Engineering Workshop	-		4	2
*Language Lab Total L=12, T=5, P =10		Total Credit			22

B.Tech. – IT (Second Semester)

CourseNo.	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
MTH 102	Engineering Mathematics-II	3	1	-	4
PHY 102	Engineering Physics-II	2	1	2	4
EG 101	Engineering Graphics	2	1	2	4
CS 102	Data Structures and Algorithms	2	1	2	4
HUM 102	Culture & Human Values	2	1	2	4
IT 102	Programming Lab	-	-	4	2
Total L=11, T=5, P =12		Total Credit			22

B.Tech. - IT (Third Semester)

CourseNo.	Subject	Scheme of Studies Periods per Week			Credits
		L	T	P	
MTH 211	Mathematics III	3	1	-	4
IT-212	Discrete Structure	3	1	-	4
IT-213	Digital Logic and Design	2	1	2	4
IT-214	Object Oriented Programming	2	1	2	4
IT-215	Design and Analysis of Algorithms	2	1	2	4
IT-216	Information Technology Workshop		1	2	2
Total L=12, T=6, P =8		Total Credit			22

B.Tech. - IT (Fourth Semester)

Course No.	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
IT-221	Analog and Digital Communication	3	1	-	4
IT-222	Computer organization and Architecture	2	1	2	4
IT-223	Software Engineering	2	1	2	4
IT-224	Database Management Systems	2	1	2	4
IT-225	Information Theory and Coding	3	1	-	4
IT-226	Entrepreneurship Development			4	2
IT 227	Community Services	-	-	-	S/NS
Total L=12, T=5, P =10		Total Credit			22

Community Services*: 15 days (100 Hrs) community services such as Swach bharat Abhiyan etc. to get Satisfactory (S) or Not Satisfactory (NS) Grade.

B.Tech. – IT (Fifth Semester)

Course No.	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
IT -311	Data Communication and Networks	2	1	2	4
IT -312	Digital Image Processing	2	1	2	4
IT -313	Micro-Processors and Micro-Controllers	2	1	2	4
IT -314	Object Oriented Design & Modeling	2	1	2	4
IT -315	Operating System	3	1	-	4
Total L=11, T=5, P=8		Total Credit			20

B.Tech. IT (Sixth Semester)

Course No.	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
IT -321	Cryptography and Information Security	3	1	-	4
IT -322	Internet of Things	2	1	2	4
IT -323	TCP/IP and Web Technologies	3	-	-	3
IT -324	Artificial Intelligence	2	1	2	4
L-1	IT Elective -1	3	-	-	3
IT 325	Minor Project	-	-	4	2
Total L=13, T=3, P=8		Total Credit			20

List of Electives Level -1 (Any One Subject for VI Semester)

Data Engineering & Computing Stream		Computer Vision & Information Processing Stream		Robotics & Artificial Intelligence Stream		Computer System Architecture Stream	
IT 501	Advances in Database Management Systems	IT 502	Computer Graphics & Multimedia	IT 503	Soft Computing & Intelligent Systems	IT 504	Embedded Systems