

# **B.TECH. 4 YEAR PROGRAMME**

## **COMPUTER SCIENCE & ENGINEERING**

**SCHEME 2019-20**  
**(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> Semester)**

## Detailed Scheme for B.Tech. CSE

### B.Tech. – CSE (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			<b>22</b>

### B.Tech. – CSE (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			<b>22</b>

### B.Tech. - CSE (Third Semester)

CourseNo.	Subject	Scheme of Studies Periods per Week			Credits
		L	T	P	
MTH 211	Mathematics III	3	1	-	4
CSE-212	Discrete Structure	3	1	-	4
CSE-213	Digital Logic and Design	2	1	2	4
CSE-214	Principles of Programming Languages	2	1	2	4
CSE-215	Design and Analysis of Algorithms	2	1	2	4
CSE-216	Computer Workshop		1	2	2
Total L=12, T=6, P =8		Total Credit			<b>22</b>

### B.Tech. – CSE (Fourth Semester)

CourseNo.	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
CSE-221	Analog and Digital Communication	3	1	-	4
CSE-222	Computer organization and Architecture	2	1	2	4
CSE-223	Software Engineering	2	1	2	4
CSE-224	Database Management System	2	1	2	4
CSE-225	Formal Language and Automata Theory	3	1	-	4
CSE-226	Entrepreneurship Development		-	4	2
CSE-227	Community Services	-	-	-	S/NS
Total L=12, T=5, P =10		Total Credit			<b>22</b>

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. – CSE (Fifth Semester)**

Course No.	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
CSE-311	Computer Networks	2	1	2	4
CSE-312	Digital Image Processing	2	1	2	4
CSE-313	Micro-Processors and Micro-Controllers	2	1	2	4
CSE-314	Compiler Design	2	1	2	4
CSE-315	Operating System	3	1	-	4
Total L=11, T=5, P=8		Total Credit			<b>20</b>

**B.Tech.– CSE (Sixth Semester)**

Course No.	Subject	Scheme of Studies Periods per week			Credits
		L	T	P	
CSE-321	Cryptography and Information Security	2	1	2	4
CSE-322	Data Warehouse and Data Mining	2	1	2	4
CSE-323	Distributed Systems	3	1	-	4
CSE-324	Artificial Intelligence	3	-	-	3
L-1	CS Elective -1	3	-	-	3
CSE 325	Minor Project	-	-	4	2
Total L=13, T=3,P=8		Total Credit			<b>20</b>

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

Data Engineering & Computing Stream		Computer System Architecture Stream		Network Security & Algorithms Stream		Language, Theory & Communication Stream	
CSE501	Advances in Database Management Systems	CSE502	Computer Graphics & Multimedia	CSE503	Computer & Network Security	CSE504	Mobile & Wireless Communications

