

**B.Tech.(CSE)Batch 2024**

<b>Semester I</b>										
<b>S.No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Course Type</b>	<b>Credit</b>					<b>Arch/Des Studio</b>	<b>Credit Units</b>
				L	T	PS	FW	SW		
1	ES101	Engineering Mechanics	Engineering Sciences Courses	3	0	2	0	0	0	4
2	ES107	Workshop Practices	Engineering Sciences Courses	0	0	2	0	0	0	1
3	ES202	Introduction to Computers and Programming in C	Engineering Sciences Courses	2	0	2	0	0	0	3
4	ETTP100	Term Paper	Non-Teaching Credit Courses	0	0	0	0	0	0	2
5	MATH114	Applied Mathematics- I	Basic Sciences Courses	3	0	0	0	2	0	4
6	PHYS132	Engineering Physics	Basic Sciences Courses	3	1	2	0	0	0	5
7	BC105	Technical Communication	Value Added Course	3	0	0	0	2	0	4

<b>Semester II</b>										
<b>S.No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Course Type</b>	<b>Credit</b>					<b>Arch/Des Studio</b>	<b>Credit Units</b>
				L	T	PS	FW	SW		
1	CHEM136	Engineering Chemistry	Basic Sciences Courses	3	1	2	0	0	0	5
2	ES103	Basic Electrical Engineering	Engineering Sciences Courses	2	1	2	0	0	0	4
3	ES104	Engineering Graphics Lab	Engineering Sciences Courses	0	0	2	0	0	0	1
4	IT423	Introduction to Cloud Computing	Engineering Sciences Courses	3	0	0	0	0	0	3
5	MATH122	Applied Mathematics - II	Basic Sciences Courses	3	1	0	0	2	0	5
6	BC106	Technical Communication	Value Added Course	3	0	0	0	2	0	4

Semester III										
S.No.	Course Code	Course Title	Course Type	Credit					Arch/Des Studio	Credit Units
				L	T	PS	FW	SW		
1	CSE207	Digital Electronics and Computer Organization	Core Courses	3	0	2	0	2	0	5
2	CSIT124	Data Structures Using C	Core Courses	3	0	2	0	0	0	4
3	ES201	Basic Electronics Engineering	Engineering Sciences Courses	3	0	2	0	0	0	4
4	ES203	Object Oriented Programming Using C++	Engineering Sciences Courses	3	0	2	0	0	0	4
5	ES204	Basic Simulation Lab	Engineering Sciences Courses	0	0	2	0	0	0	1
6	ETTP100	Term Paper	Non-Teaching Credit Courses	0	0	0	0	0	0	1
7	MATH211	Applied Mathematics- III	Basic Sciences Courses	3	1	0	0	0	0	4

Semester IV										
S.No.	Course Code	Course Title	Course Type	Credit					Arch/Des Studio	Credit Units
				L	T	PS	FW	SW		
1	CSE202	Operating System	Core Courses	2	1	2	0	0	0	4
2	CSE204	Theory of Computation	Core Courses	3	1	0	0	0	0	4
3	CSE208	Discrete Mathematical Structures	Core Courses	3	0	0	0	0	0	3
4	IT201	Java Programming	Core Courses	3	0	2	0	0	0	4
5	IT307	Exploring the Networks	Industry Specific Courses	0	0	0	0	0	0	0
6	IT429	Web Developer	Industry Specific Courses	2	0	2	0	0	0	3
7	MATH242	Applied Mathematics-IV	Basic Sciences Courses	0	0	0	0	0	0	0
8	MATS201	Material Science	Engineering Sciences Courses	2	0	0	0	0	0	2

Semester V										
S.No.	Course Code	Course Title	Course Type	Credit					Arch/Des Studio	Credit Units
				L	T	PS	FW	SW		
1	CSE201	Database Management Systems	Core Courses	3	1	2	0	0	0	5
2	CSE205	Programming in Python	Industry Specific Courses	0	0	0	0	0	0	0
3	CSE302	Data Communication and Computer Networks	Core Courses	2	1	2	0	0	0	4
4	CSE303	Analysis and Design of Algorithms	Core Courses	3	1	2	0	0	0	5
5	CSE305	Fundamentals of Mobile Computing	Specialisation Elective Courses	3	0	0	0	0	0	3
6	CSE314	Cloud Computing Practitioner	Industry Specific Courses	2	0	2	0	2	0	4
7	CSE404	Principal of Programming Language	Specialisation Elective Courses	3	0	0	0	0	0	3
8	CSE422	Real Time Operating System	Specialisation Elective Courses	3	0	0	0	0	0	3
9	CSE437	R Programming	Industry Specific Courses	3	0	2	0	0	0	4
10	ECE303	Microprocessors and Interfacing	Specialisation Elective Courses	3	0	2	0	0	0	4
11	ETPT100	In-House Practical Training	Non-Teaching Credit Courses	0	0	0	0	0	0	4
12	IT308	Routing and Switching in Networks	Industry Specific Courses	0	0	0	0	0	0	0
13	IT403	Information Storage Management	Industry Specific Courses	3	1	0	0	0	0	4
14	IT405	Open Source Application Development Technologies	Specialisation Elective Courses	2	0	2	0	0	0	3
15		Foreign Business Language	Value Added Course	1	0	0	0	0	0	2

Semester VI										
S.No.	Course Code	Course Title	Course Type	Credit					Arch/Des Studio	Credit Units
				L	T	PS	FW	SW		
1	CSE203	Computer Graphics	Specialisation Elective Courses	3	1	2	0	0	0	5
2	CSE304	Compiler Construction	Core Courses	3	0	2	0	0	0	4
3	CSE311	Distributed System	Specialisation Elective Courses	3	0	0	0	0	0	3

4	CSE313	Fundamentals of Machine Learning	Specialisation Elective Courses	0	0	0	0	0	0	0
5	CSE401	Artificial Intelligence	Core Courses	3	1	2	0	0	0	5
6	CSE402	Digital Image Processing and Computer Vision	Specialisation Elective Courses	3	1	2	0	0	0	5
7	CSE403	Graph Theory and Applications	Specialisation Elective Courses	3	0	0	0	0	0	3
8	CSE405	Software Architecture and Design	Specialisation Elective Courses	3	0	0	0	0	0	3
9	CSE416	Applied Probability and Statistics	Specialisation Elective Courses	3	0	0	0	0	0	3
10	CSE424	Business Process Management and Mining	Specialisation Elective Courses	3	0	0	0	0	0	3
11	CSE438	Linux for Devices	Specialisation Elective Courses	3	0	2	0	0	0	4
12	CSE443	Fundamental of Big Data Analytics	Specialisation Elective Courses	3	0	2	0	0	0	4
13	CSE449	Internet of Things: Sensing and Actuator Devices	Industry Specific Courses	0	0	0	0	0	0	0
14	IT301	Software Engineering	Core Courses	3	1	2	0	0	0	5
15	IT305	Mobile Application Development	Specialisation Elective Courses	2	0	2	0	0	0	3
16	IT404	Advanced Java Programming	Specialisation Elective Courses	3	0	2	0	0	0	4
17	IT414	Software Testing and Quality Assurance	Specialisation Elective Courses	3	1	2	0	0	0	5
18	IT430	Dynamic Routing and Troubleshooting	Specialisation Elective Courses	0	0	0	0	0	0	0
19		Foreign Business Language	Value Added Course	1	0	0	0	0	0	2

Semester VII										
S.No.	Course Code	Course Title	Course Type	Credit					Arch/Des Studio	Credit Units
				L	T	PS	FW	SW		
1	CSE411	Parallel Computing	Specialisation Elective Courses	3	0	0	0	0	0	3
2	CSE415	Simulation and Modeling	Specialisation Elective Courses	3	1	0	0	0	0	4
3	CSE423	Pattern Recognition	Specialisation Elective Courses	3	1	0	0	0	0	4
4	CSE431	Object Oriented System Design	Specialisation Elective Courses	3	0	0	0	0	0	3
5	CSE432	Software Project Management	Specialisation Elective Courses	3	1	2	0	0	0	5
6	CSE436	Cyber Security	Core Courses	0	0	0	0	0	0	0

7	CSE440	Data Center Virtualization	Specialisation Elective Courses	3	0	2	0	0	0	4
8	CSE445	Advanced Neural Networks	Specialisation Elective Courses	3	0	2	0	2	0	5
9	CSE447	Introduction to Natural Language Processing	Specialisation Elective Courses	0	0	0	0	0	0	0
10	ECON132	Economics for Engineers	Human Social Sciences & Management Courses	2	0	0	0	0	0	2
11	ETMN100	Minor Project	Non-Teaching Credit Courses	0	0	0	0	0	0	4
12	HIST138	Aspects of Indian History for Engineers	Human Social Sciences & Management Courses	1	0	0	0	0	0	1
13	IT303	Information Assurance and Security	Specialisation Elective Courses	3	0	0	0	0	0	3
14	IT402	Data Mining and Business Intelligence	Specialisation Elective Courses	3	1	0	0	0	0	4
15	IT431	Advanced Network Solution	Specialisation Elective Courses	3	0	2	0	0	0	4
16	LAW132	Law for Engineers	Human Social Sciences & Management Courses	2	0	0	0	0	0	2
17	SOC104	Sociology for Engineers	Human Social Sciences & Management Courses	1	0	0	0	0	0	1

Semester VIII										
S.No.	Course Code	Course Title	Course Type	Credit					Arch/Des Studio	Credit Units
				L	T	PS	FW	SW		
1	CSE312	Introduction to Statistical Tools in Research	Specialisation Elective Courses	0	0	0	0	0	0	0
2	CSE414	Advance Computer Networks	Specialisation Elective Courses	3	1	2	0	0	0	5
3	CSE441	Service Oriented Architecture	Specialisation Elective Courses	3	0	2	0	0	0	4
4	CSE442	Applied Cryptography	Specialisation Elective Courses	3	0	2	0	0	0	4
5	CSE444	Optimization Methods	Specialisation Elective Courses	3	0	2	0	0	0	4
6	CSE446	Data Management and Visualization	Professional Ethics	0	0	0	0	0	0	0
7	CSE448	Parallel Algorithms	Specialisation Elective Courses	0	0	0	0	0	0	0
8	CSE450	Knowledge Representation and Reasoning Using AI	Specialisation Elective Courses	0	0	0	0	0	0	0
9	ETMJ100	Major Project	Non-Teaching Credit Courses	0	0	0	0	0	0	10