



JEPPIAAR
— UNIVERSITY —



Curriculum and Syllabus
(Regulations 2024)

**School of Engineering &
Technology**

B.Tech.
**Computer Science
and Engineering (Cyber Security)**

B.Tech Computer Science and Engineering(Cyber Security)

SUMMARY OF CREDITS

SNO	YEAR	SEMESTER	CREDITS
1	Year I	Semester 1	23
2	Year I	Semester 2	25
3	Year II	Semester 3	23
4	Year II	Semester 4	24
5	Year III	Semester 5	23
6	Year III	Semester 6	22
7	Year IV	Semester 7	18
8	Year IV	Semester 8	12
		TOTAL CREDITS	170

B.TECH COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**SEMESTER I**

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	HS	24EEN1001	Professional English- I	3	0	0	3
2	BS	24EMA1001	Engineering Mathematics-I	3	1	0	4
3	BS	24EEV1001	Environmental Sciences and Sustainability	2	0	0	2
4	ES	24ECS11001	Programming in C	3	0	0	3
5	ES	24EEC11001	Basic Digital Electronics	3	1	0	4
6	ES	24ELT1001	IT Primer	3	0	0	3
7	ES	24ECS41001	Programming in C Lab	0	0	4	2
8	ES	24ECS41002	Basic Digital Electronics Laboratory	0	0	2	1
9	AEA	24ESP5101	Soft Skills- Personality Development	0	0	2	1
			Total	19	2	8	23

SEMESTER 2

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	HS	24EEN2002	Professional English - II	3	0	0	3
2	BS	24EMA2002	Engineering Mathematics - II	3	1	0	4
3	BS	24EPH2001	Engineering Physics	3	0	0	3
4	ES	24ECS2102	Problem Solving and Python Programming	3	1	0	4
5	ES	24EEC2102	Basics of Electrical and Electronics Engineering	3	1	0	4
6	BS	24ELT2103	Critical Thinking, Design Thinking and Leader Team Work	3	0	0	3
7	ES	24ECS2402	Python Programming Laboratory	0	0	4	2
8	AEA	24ECP2502	Computer Practices Laboratory	0	0	2	1
	EAA		Extra-Curricular Activity	0	0	2	1
			Total	18	3	8	25

SEMESTER 3

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	BS	24EMA3003	Discrete Mathematics	3	1	0	4
2	PC	24ECS3108	Embedded Systems and IoT	3	0	0	3
3	PC	24ECS3105	Data Structures	3	0	0	3
4	PC	24ECS3104	Object oriented Programming	3	0	0	3
5	PC	24ECS3106	Computer Architecture & Organisation	3	0	0	3
	PC	24ECY3107	Linux Professional	3	0	0	3
6	PC	24ECS3403	Object oriented Programming Laboratory	0	0	4	2
7	PC	24ECS3105	Data Structures Laboratory	0	0	4	2
			Total	18	1	8	23

SEMESTER 4

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	PC	24ECS4109	Artificial Intelligence and Machine Learning	3	0	0	3
2	PC	24ECS4111	Operating Systems	3	0	0	3
3	PC	24ECS4112	Database Management Systems	3	0	0	3
4	PC	24EDS4109	Design & Analysis of Algorithms	3	1	0	4
5	PC	24ECY4113	Routing & Switching	3	0	0	3
6	PC	24ECY4114	Ethical Hacking	3	0	0	3
7	PC	24ECS4405	Operating Systems Laboratory	0	0	4	2
8	PC	24ECS4406	Database Management Systems Laboratory	0	0	4	2
9	EAA		Extra-Curricular Activity	0	0	2	1
			Total	18	1	10	24

SEMESTER 5

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	PC	24ECS5115	Compiler Design	3	1	0	4
2	PC	24ECS5117	Theory of Computation	3	1	0	4
3	PC	24ECS5116	Computer Networks	3	0	0	3
4	PE		Professional Elective I	3	0	0	3
5	PE		Professional Elective II	3	0	0	3
6	OE		Open Elective I	3	0	0	3
7	PC	24ECS5407	Compiler Design Laboratory	0	0	4	2
8	AEA	24EPT5504	Professional Training - I	0	0	2	1
			Total	18	2	6	23

SEMESTER 6

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	PC	24ECS6117	Cryptography and Web Security	3	0	0	3
2	PC	24EDS6118	Cloud Computing	3	0	0	3
3	PC	24ECY6119	Software System Security	3	0	0	3
4	PE		Professional Elective III	3	0	0	3
5	PE		Professional Elective IV	3	0	0	3
6	OE		Open Elective II	3	0	0	3
7	PC	24ECS6408	Security Laboratory	0	0	4	2
8	AEA	24ESP5605	Independent Project	0	0	2	1
9	EAA		Extra-Curricular Activity	0	0	2	1
			Total	18	0	8	22

SEMESTER 7

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	HS	24ECS7120	Human Values and Ethics	3	0	0	3
2	PC	24ECS7121	Big Data Analytics	3	0	0	3
3	PE		Professional Elective V	3	0	0	3
4	PE		Professional Elective VI	3	0	0	3
5	OE		Open Elective III	3	0	0	3
6	PC	24ECS7409	Data Analytics Laboratory	0	0	4	2
7	AEA	24EPT5505	Professional Training - II	0	0	2	1
			Total	15	0	6	18

SEMESTER 8

Sl. No.	Category	Course Code	Course Title	L	T	P	C
1	AEA	24EPW8506	Project Work / Internship	0	0	24	12
			Total	0	0	24	12