



B.Tech in Computer Science and Engineering
(Cybersecurity)
Course Modules & Program Study Plan

Semester 1

Course No.	Course Code	Course Title	L	T	P	Cr.
1	HSM101E	Technical English Communication	3	0	2	4
2	HSM105L	Arabic /Foreign Language	3	0	0	3
3	PHY101L	Engineering Physics	3	0	0	3
3	PHY101P	Engineering Physics Lab	0	0	2	1
4	MAT101L	Calculus & Linear Algebra	3	0	0	3
4	MAT101P	Calculus & Linear Algebra Lab	0	0	2	1
5	EEE101L	Basic Electrical and Electronics Engineering	3	0	0	3
5	EEE101P	Basic Electrical and Electronics Engineering Lab	0	0	2	1
6	CSE101E	Programming for Problem Solving – Python	2	0	4	4
		Semester Credits				23



Semester 2

Course No.	Course Code	Course Title	L	T	P	Cr.
1	HSM102L	Design Thinking	2	1	0	3
2	HSM104L	Qatari Culture Education	3	0	0	3
3	MAT201L	Probability and Statistics	3	0	0	3
3	MAT201P	Probability and Statistics Lab	0	0	2	1
4	MAT203L	Number Theory and Cryptography	3	0	0	3
5	EEE201L	Digital Systems Design	3	0	0	3
5	EEE201P	Digital Systems Design Lab	0	0	2	1
6	CSE203L	Data Structures and Algorithms	3	0	0	3
6	CSE203P	Data Structures and Algorithms Lab	0	0	2	1
		Semester Credits				21

Semester 3

Course No.	Course Code	Course Title	L	T	P	Cr.
1	CSE211L	Modern Cryptography	3	1	0	4
2	MAT301L	Differential Equations and Transforms	3	1	0	4
3	CSE212L	Object Oriented Programming with Java	2	0	0	2
3	CSE212P	Object Oriented Programming with Java Lab	0	0	4	2
4	CSE204L	Computer Architecture and Organization	3	1	0	4
5	CSE205L	Database Systems	3	0	0	3
5	CSE205P	Database Systems Lab	0	0	2	1
6		Discipline Elective 1	3	1	0	4
		Semester Credits				23



Semester 4

Course No.	Course Code	Course Title	L	T	P	Cr.
1	HSM103L	Management Basket	3	0	0	3
2	STS101P	Soft Skills 1	0	0	0	1
3	MAT202L	Discrete Mathematics and Graph Theory	3	1	0	4
4	CSE301L	Operating Systems	3	0	0	3
4	CSE301P	Operating Systems Lab	0	0	2	1
5	CSE206L	Cyber Security	3	0	0	3
5	CSE206P	Cyber Security Lab	0	0	2	1
6	EEE201L	Microcontrollers and Embedded Systems	3	0	0	3
6	EEE201P	Microcontrollers and Embedded Systems Lab	0	0	2	1
		Semester Credits				20

Semester 5

Course No.	Course Code	Course Title	L	T	P	Cr.
1	STS201P	Soft Skills 2	0	0	0	1
2	CSE303L	Theory of Computation	3	1	0	4
3	CSE305L	Machine Learning in Cyber Security	3	0	0	3
3	CSE305P	Machine Learning in Cyber Security Lab	0	0	2	1
4	CSE207L	Computer Networks	3	0	0	3
4	CSE207P	Computer Networks Lab	0	0	2	1
5	CSE302L	Design and Analysis of Algorithms	3	0	0	3
5	CSE302P	Design and Analysis of Algorithms Lab	0	0	2	1
6		Discipline Elective 2	3	1	0	4



		Semester Credits				21
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Semester 6

Course No.	Course Code	Course Title	L	T	P	Cr.
1	STS301P	Soft Skills 3	0	0	0	1
2	CSE309L	Network Security	3	0	0	3
2	CSE309P	Network Security Lab	0	0	2	1
3		Discipline Elective 3	3	1	0	4
4		Discipline Elective 4	3	1	0	4
5		Discipline Elective 5	3	1	0	4
6		Discipline Elective 6	3	1	0	4
7		Open Elective 1	3	0	0	3
8	CSE199J	Summer Industrial Internship	0	0	0	1
		Semester Credits				25

Semester 7

Course No.	Course Code	Course Title	L	T	P	Cr.
1	HSM106L	Human Rights	3	0	0	3
2		Open Elective 2	3	0	0	3
3		Open Elective 3	3	0	0	3
4		Open Elective 4	3	0	0	3
5		Open Elective 5	3	0	0	3
6		Open Elective 6	3	0	0	3
7	CSE398J	Project 1	0	0	0	3



		Semester Credits				21
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Semester 8

Course No.	Course Code	Course Title	L	T	P	Cr.
1		Project 2	0	0	0	5
		Semester Credits				5