

SEMESTER I			
SL. NO	COURSE NAME		CREDITS
HARD CORE			
1	CSCS 401	INTRODUCTION TO CYBER SECURITY	4
2	CSCS 402	FOUNDATIONS OF CRYPTOGRAPHY	4
3	CSCS 403	DATA STRUCTURES	4
SOFT CORE			
4	CSCS 404	MATHEMATICAL FOUNDATIONS	3
5	CSCS 405	PROBLEM SOLVING USING PYTHON	3
6	CSCS 406	E-COMMERCE AND E-GOVERNANCE	3
7	CSCS 407	COMPUTER NETWORKS	3
8	CSCS 408	UNIX AND SHELL PROGRAMMING	3
PRACTICALS			
9	CSCP 409	DATA STRUCTURES LABORATORY	2
10	CSCP 410	UNIX AND SHELL PROGRAMMING LABORATORY	2
		Total	22

SEMESTER II			
SL. NO	COURSE NAME		CREDITS
HARD CORE			
1	CSCH 451	DESIGN AND ANALYSIS OF ALGORITHMS	4
2	CSCH 452	NETWORK SECURITY	4
3	CSCH 453	DATA COMMUNICATIONS	4
SOFT CORE			
4	CSCS 454	DESIGN OF CRYPTOGRAPHIC ALGORITHMS	3
5	CSCS 455	CYBER THREAT INTELLIGENCE	3

6	CSCS 456	CLOUD COMPUTING AND SECURITY	3
7	CSCS 458	INTERNET OF THINGS	3
PRACTICALS			
8	CSCP 459	NETWORK SECURITY LABORATORY	2
9	CSCP 460/A	DESIGN AND ANALYSIS OF ALGORITHMS LABORATORY	2
		SEMINAR	
10	CSCS 461	SEMINAR ON LATEST TRENDS AND TECHNIQUES IN CYBERSECURITY	1
		OPEN CHOICE	
11	CSCO 462	INTRODUCTION TO CYBER SECURITY	3
		TOTAL	26

SEMESTER III			
SL. NO	COURSE NAME		CREDITS
HARD CORE			
1	CSCH 501	DIGITAL FORENSICS	4
2	CSCH 502	ETHICAL HACKING	4
3	CSCH 503	INTRODUCTION TO BLOCKCHAIN	4
SOFT CORE			
4	CSCS 505	INTRUSION DETECTION SYSTEM	3
5	CSCS 506	CYBER LAWS	3
6	CSCS 507	APPLICATION SECURITY	3
7	CSCS 508	BIG DATA ANALYTICS	3
PRACTICALS			

8	CSCP 509	ETHICAL HACKING LABORATORY	2
9	CSCP 510	BLOCKCHAIN TECHNOLOGY LABORATORY	2
		SEMINAR	
10	CSCS 511	SEMINAR ON LATEST TRENDS AND TECHNIQUES IN CYBERSECURITY	1
		OPEN CHOICE	
11	CSCO 512	CYBER LAWS	3
12	CSCO 513	ETHICAL HACKING AND DIGITAL FORENSICS	3
		TOTAL	26

SEMESTER IV			
SL. NO	COURSE NAME		CREDITS
1	CSCH 551	INDUSTRY INTERNSHIP / PROJECT WORK	18

SEMESTER	MAIN COURSE CREDITS	OPEN CHOICE CREDITS
I	22	0
II	23	03
II	23	03
IV	18	0
TOTAL	GRAND TOTAL	92

Scheme of Examination for M.Sc. in Cyber Security

Semester I

Course Code	Title of the Course	Credits	Hours per week	Duration of the Exam	Marks		
					IA	EXAM	Total
Hard Core (All are Compulsory)							
CSCH 401	Introduction to Cyber Security	04	04	3 hours	30	70	100
CSCH 402	Foundations of Cryptography	04	04	3 hours	30	70	100
CSCH 403	Data Structures	04	04	3 hours	30	70	100
Softcore (two to be chosen by the student)							
CSCS 404	Mathematical Foundations	03	03	3 hours	30	70	100
CSCS 405	Problem solving using Python	03	03	3 hours	30	70	100
CSCS 406	E-Commerce and E-Governance	03	03	3 hours	30	70	100
CSCS 407	Computer Networks	03	03	3 hours	30	70	100
CSCS 408	Unix and Shell Programming	03	03	3 hours	30	70	100
Practicals							
CSCP 409	Data Structures Laboratory	02	04	03hours	30	70	100
CSCP 410	Unix and Shell Programmin g Laboratory	02	04	03 hours	30	70	100
Total					210	490	700

Semester II							
Hard Core (All are Compulsory)							
CSCH 451	Design and Analysis of Algorithms	04	04	3 hours	30	70	100
CSCH 452	Network Security	04	04	3 hours	30	70	100
CSCH 453	Data Communications	04	04	3 hours	30	70	100
Softcore (two to be chosen by the student)							
CSCS 454	Design of Cryptographic Algorithms	03	03	3 hours	30	70	100
CSCS 455	Cyber Threat Intelligence	03	03	3 hours	30	70	100
CSCS 456	Cloud Computing and Security	03	03	3 hours	30	70	100
CSCS 458	Internet of Things	03	03	3 hours	30	70	100
Practicals							
CSCP 459	Network Security Laboratory	02	04	03 hours	30	70	100
CSCP 460/A	Design and Analysis of Algorithms Laboratory	02	04	03 hours	30	70	100
Seminar							
CSCS 461	Seminar on latest trends and techniques in Cyber security	01	01	-	15	35	50
Open Choice							
CSCO 462	Introduction to Cyber Security	03	03	3 hours	30	70	100
Total					255	595	850

Semester III Hard Core (All are Compulsory)							
CSCH 501	Digital Forensics	04	04	3 hours	30	70	100
CSCH 502	Ethical Hacking	04	04	3 hours	30	70	100
CSCH 503	Introduction to Block Chain	04	04	3 hours	30	70	100
Softcore (two to be chosen by the student)							
CSCS 505	Intrusion Detection System	03	03	3 hours	30	70	100
CSCS 506	Cyber Laws	03	03	3 hours	30	70	100
CSCS 507	Application Security	03	03	3 hours	30	70	100
CSCS 508	Big Data Analytics	03	03	3 hours	30	70	100
Practicals							
CSCP 509	Ethical Hacking Laboratory	02	04	03 hours	30	70	100
CSCP 510	BlockChain Technology Laboratory	02	04	03 hours	30	70	100
Seminar							
CSCS 461	Seminar on latest trends and techniques in Cyber security	01	01	-	15	35	50
Open Choice							
CSCO 512	Cyber Laws	03	03	3 hours	30	70	100
CSCO 513	Ethical hacking and digital forensics	03	03	3 Hours	30	70	100
Total					255	595	850

Semester IV

Course Code	Title of the course	Credits	Marks		
			IA	Dissertation / Viva	Total
CSCH 551	Project Work / Industry internship Dissertation	12	100	300	400
	Literature Review	03	100	---	100
	Project Demonstration / Presentation	03	--	100	100
Total		18	200	400	600

Marks Distribution Semester Wise

Semester	Credits	Marks
I	22	700
II	26	850
III	26	850
IV	18	600
Total	92	3000