

## 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
<b>Hard Core ( All are Compulsory )</b>							
CSCH 401	Introduction to Cyber Security	04	04	3 hours	30	70	100
CSCH 402	Unix and Shell Programming	04	04	3 hours	30	70	100
CSCH 403	Data Structures	04	04	3 hours	30	70	100
<b>Soft Core ( two to be chosen by the student )</b>							
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	Foundations of Cryptography	03	03	3 hours	30	70	100
<b>Practicals</b>							
CSCP 409	Data Structures Laboratory	02	04	03 hours	30	70	100
CSCP 410	Unix and Shell Programming Laboratory	02	04	03 hours	30	70	100
<b>Total</b>		-	-	-	<b>210</b>	<b>490</b>	<b>700</b>

### Semester II

Course Code	Title of the Course	Credits	Hours per week	Duration of the Exam	Marks		
					IA	Exam	Total
<b>Hard Core ( All are Compulsory )</b>							
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
<b>Soft Core</b>							
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
<b>Practicals</b>							
CSCP 459	Network Security Laboratory	02	04	03 hours	30	70	100
<b>CSCP 460</b>	<b>Design and Analysis of Algorithms Laboratory</b>	02	04	03 hours	30	70	100
<b>Seminar</b>							
CSCS 461	Seminar on latest trends and techniques in Cybersecurity	01	01	-	15	35	50