

<b>Course Title:</b>				Introduction to Cyber Security				
<b>Course Code:</b>				CSL AE102				
<b>Course Coordinator</b>				Dr. Rohit Tanwar				
<b>Credits</b>				2				
<b>Evaluation Scheme Total 100 Marks</b>								
<b>Quiz (Total 20 Marks)</b>				<b>Assignment/Project (Total 20 marks) (Minimum Two Assignments or one Project)</b>		<b>Mid-Term</b>	<b>Major Examination</b>	<b>Total</b>
<b>Quiz I (5 marks)</b>	<b>Quiz II (5 marks)</b>	<b>Quiz III (5 marks)</b>	<b>Quiz IV (5 marks)</b>			<b>20 marks) (1 ½ Hour Duration)</b>	<b>(40 marks) (3 Hour Duration)</b>	<b>100 Marks</b>
<b>WEEKS</b>				<b>TOPICS TO BE COVERED</b>				
<b>Week 1</b>				Introduction to Cyber Security, Cyber security increasing threat landscape				
<b>Week 2</b>				Cyber security terminologies- Cyberspace, attack, attack vector, attack surface, threat, risk, vulnerability, exploit, exploitation, hacker				
<b>Week 3</b>				Doubt Session, Knowledge Enhancement Session, Quiz-1				
<b>Week 4</b>				Cyber crimes targeting Computer systems and Mobiles- data diddling attacks, spyware, logic bombs, DoS				
<b>Week 5</b>				DDoS, APTs, virus, Trojans, ransomware, data breac				
<b>Week 6</b>				Online scams and frauds- email scams, Phishing, Vishing, Smishing				
<b>Week 7</b>				Online job fraud, Debit/ credit card fraud, Online payment fraud.				
<b>Week 8</b>				Doubt Session, Knowledge Enhancement Session, Quiz-2				
<b>Week 9</b>				Cyber crime and legal landscape around the world, IT Act,2000 and its amendments.				
<b>Week 10</b>				Limitations of IT Act,2000. Cyber crime and punishments				
<b>Week 11 (17<sup>th</sup> -21<sup>st</sup> March, 2025)</b>				<b>Mid-Term</b>				
<b>2<sup>nd</sup> May, 2025</b>				<b>Showing of Mid-Term Answer Sheets</b>				
<b>Week 13</b>				Cyber Laws and Legal and ethical aspects related to new technologies-AI/ML, IoT, Blockchain, Darknet and Social media.				
<b>Week 14</b>				<b>Quiz-3</b>				
<b>Week 15</b>				Defining data, meta-data, big data, nonpersonal data, Data protection, Data privacy and data security.				

<b>Week 16</b>	Personal Data Protection Bill and its compliance, Data protection principles, Big data security issues and challenges, Quiz-4
<b>Week 17 (5<sup>th</sup> -9<sup>th</sup> May, 2025)</b>	<b>Revision Week</b>
<b>Week 18 (13<sup>th</sup> – 22<sup>nd</sup> May, 2025)</b>	<b>Major Examinations</b>
<b>29<sup>th</sup> May, 2025</b>	<b>Showing of Major Exams Answer Sheets</b>

**Course Outcomes:**

**CO1: Understand the cyber security threat landscape.**

**CO2: Develop a deeper understanding and familiarity with various types of cyberattacks, cyber crimes, vulnerabilities.**

**CO3: Analyse and evaluate existing legal framework and laws on cyber security.**

**CO4: Analyse and evaluate the importance of personal data its privacy and security.**

**CO5: Analyse and evaluate the security aspects of social media platforms and ethical aspects associated with use of social media.**

**Recommended Books:**

1. Marjie T. Britz **Computer Forensics and Cyber Crime: An Introduction**, Pearson
2. Alfared Basta and Wolf Holten, **Computer Security Concepts, Issues and Implementation**, CENGAGE learning
3. Raghu Santanam, M. Sethumadhavan, Mohit Virendra **Cyber Security, Cyber Crime and Cyber Forensics**, IGI Global

**Calendar of Quizzes/Assignment etc. to be provided as per below details and exact dates to be fixed in consultation with other course coordinators to avoid overlap of Quizzes of different courses.**

<b>Component</b>	<b>Date</b>
<b>Quiz-I</b>	<b>27<sup>th</sup> -31<sup>st</sup>, January 2025</b>
<b>Quiz-II</b>	<b>24<sup>th</sup> -28<sup>th</sup> February, 2025</b>
<b>Assignment-I</b>	<b>10<sup>th</sup> -12<sup>th</sup> February, 2025</b>
<b>Mid-Term</b>	<b>17-21<sup>st</sup> March, 2025</b>
<b>Assignment-II/ Project Submission</b>	<b>21<sup>st</sup> – 24<sup>th</sup> April, 2025</b>
<b>Quiz-III</b>	<b>7<sup>th</sup> – 11<sup>th</sup> April, 2025</b>
<b>Quiz-IV</b>	<b>28<sup>th</sup> April-2nd, May, 2025</b>

Major Exam	13 <sup>th</sup> – 22 <sup>nd</sup> May, 2025
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Note:

1. One surprise Quiz may be fixed out of Quiz-II, Quiz-III or Quiz-IV.
2. In case of any deviation in evaluation methodology for courses such as AEC/VAC/SEC shall be mentioned accordingly. Thus, same shall be approved by the next BOS of school if not done earlier.

Signature of Course Coordinator : 