Ransomware Lesson plan

Learning Content phase	Learning outcome	Teaching /Learning objectives	Learning Activities (actions and teaching methods to meet the objectives)	Teacher/trainer activities (What is the role of the teacher/trainer and what is he/she going to do?)	Communication and Collaboration form	Resources, tools, and media
Introduction and orientation 20 minutes	Understand the concepts and types of Ransomware Attacks	-Define Ransomware and its key elements and basic characteristics (malicious software, encryption extortion, ransom demand) -Identify different types of Ransomware Attacks - Explain the common methods used for ransomware distribution and infection	-Use AR Technology to interact with Ransomware techniques. -Discussion (Questions and Answers, brainstorming) - Ask students to share any recent incidents or news they have heard about Ransomware	Guide them through AR interactions and discussions, ensuring clarity and addressing misconceptions.	Verbal and Guided Communication and collaboration form: teacher - student, student-student; remote or on site, synchronous or asynchronous .	AR glasses LMS
Lesson Execution -15 minutes	Analyze the impact and behavior of Ransomware. Evaluate the effectiveness of Ransomware detection and prevention strategies	- Analyze real-world examples of Ransomware attacks and their consequences - Study the encryption mechanisms employed by ransomware attackers - Investigate the tactics used by attackers to demand and collect ransom payments - Evaluate the impact of Ransomware attacks on Individuals and Organizations - Analyze how individuals and organizations can be protected against Ransomware Attacks - Evaluate the role of robust backup and disaster recovery strategies in mitigating ransomware incidents	-Discussion (Questions and Answers, brainstorming)	Present real-world malware examples, moderate discussions, ensuring knowledge is practically applied and understood.	Verbal and Guided Communication and collaboration form: teacher - student, student-student; remote or on site, synchronous or asynchronous	LMS
Evaluation – 10 minutes	Assessment of students/lesson	Evaluate students' understanding of Ransomware and their ability to apply this knowledge in a practical context.	Students will answer an online evaluation assessment/lesson feedback in the LMS and they will get the results	Clearly instruct on evaluation and feedback procedures, assist with any issues, and encourage honest feedback while ensuring all responses are collected for future reflection.	Written Evaluation Verbal and Guided Communication and collaboration form: teacher - student, student-student; remote or on site, synchronous or asynchronous	LMS/Quiz