Zero-day											
Phase	Time	Learning Outcome	Learning Activities	Teaching/Learning 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				
Introdu ction and orientat ion	20 minu tes	 Recall the concept of zero-day exploits Define what zero-day exploits are and their basic characteristics Identify common examples and scenarios where zero-day exploits can occur Recognize the potential risks and consequences of zero-day exploits 	 Use VR/WebVR technology to watch zero-day exploit simulations Use VR/WebVR technology to interact with different types of zero-day exploits Discussion (Q&A, brainstorming) 	- Students will be able to recall and describe the basic concept and importance of understanding zero-day exploits Students will be able to define zero-day exploits and explain their basic characteristics Students will be able to identify common examples and scenarios where zero-day exploits can occur Students will be able to recognize the potential risks and consequences of zero-day exploits.	Start the session explaining zero-day exploit, then direct students through VR/WebVR simulations, ensuring effective interaction and comprehension of zero-day exploit characteristics and scenarios through facilitated discussion.	Verbal and Guided Communication and collaboration form: teacher - student, student-student; remote or on site, synchronous or asynchronous .	VR/Web, LMS				
Lesson Executi on	15 minu tes	 Understand how zero-day exploits work Study the vulnerabilities and techniques used in zero-day exploits Explore the life cycle of a zero-day exploit and its impact Analyze the impact of zero-day exploits Examine real-world examples of zero-day exploit incidents and their consequences Assess the financial, privacy, and security implications of zero-day exploits Evaluate the effectiveness of zero-day exploit prevention techniques Evaluate the potential consequences of zero-day exploits Compare and contrast different prevention techniques and 	- Discussion (Q&A, brainstorming)	- Students will be able to understand and explain how zero-day exploits work Students will be able to study and describe the vulnerabilities and techniques used in zero-day exploits Students will be able to explore and describe the life cycle of a zero-day exploit and its impact Students will be able to analyze and evaluate the impact of zero-day exploits, including financial, privacy, and security implications Students will be able to compare and contrast different prevention techniques and strategies for mitigating zero-day exploits.	Engage students in critical analysis and discussion of various zero-day exploit prevention techniques and their potential consequences.	Verbal and Guided Communication and collaboration form: teacher - student, student-student; remote or on site, synchronous or asynchronous .	LMS				





		strategies for mitigating zero-day exploits					
Evaluati on	10 minu tes	- Evaluate what is a zero-day exploit and what's not - Compare different types of zero-day exploits	- Students will answer an online evaluation assessment/lesson feedback in the LMS and they will get the results	- Students will be able to evaluate and differentiate what constitutes a zero-day exploit and what does not Students will be able to compare different types of zero-day exploits based on their characteristics and impacts.	Guide students through the online evaluation, providing clarity and assistance as needed, ensuring feedback is collected and affirming the importance and constructive use of their insights for future sessions.	Written Evaluation Verbal and Guided Communication and collaboration form: teacher - student, student-student; remote or on site, synchronous or asynchronous .	LMS/Quiz



