

IOT Advanced

Phase	Time	Learning Outcome	Learning objectives	Learning Activities	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	<ul style="list-style-type: none"> - Quick recap of IoT Basics - Understand Advanced Strategies for Securing IoT devices 	<ul style="list-style-type: none"> -Recap basics for Internet of Things Attacks - - Identify advanced strategies for securing IoT Devices 	-Discussion (Questions and Answers, brainstorming)	Guide participants using learning media 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	LMS
Lesson Execution	15 minutes	<ul style="list-style-type: none"> -Understand at an advanced level the Actors behind IoT Attacks -Evaluate Advanced Techniques for IoT Attack Detection 	<ul style="list-style-type: none"> - Analyze at an advanced level the Actors behind IoT Attacks and discuss the consequences - Evaluate the impact of Internet of Things Attacks on Individuals and Organizations - Analyze how these attacks can be detected using Advanced techniques 	-Discussion (Questions and Answers, brainstorming)	Lead students through an in-depth exploration of IoT attack methodologies and impacts using real-world examples while also fostering critical discussions around the impacts and preventive measures for IoT attacks, ensuring engagement and comprehension.	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/lessons	Evaluate students' understanding of how Internet of Things Attacks can be detected using advanced techniques and how advanced strategies for protection against these techniques can be implemented	Students will answer an online evaluation assessment/lesson feedback in the LMS and they will get the results	Facilitate the online evaluation process for students, assist where necessary, ensure all feedback is submitted accurately, and communicate the importance and appreciation of their feedback for future lesson improvements.	Written Evaluation Verbal and Guided Communication and collaboration form: teacher - student, student-student; remote or on site, synchronous or asynchronous .	LMS/Quiz