

FIRST WEEK (IN PERSON) July 28 - August 1					
Day	Time	Lesson	Thematic	Practical Task	Group Task
2025.07.27	Arrival & Check-in				
2025.07.28	9.00-10.45	Cybersecurity for beginner's: <b>Network security</b>	Spam filtering using machine learning Phishing URL detection Capturing network traffic Network behavior anomaly detection Botnet traffic detection Insider threat detection Detecting DDoS, Wireless indoor localization	Cybersecurity and Penetration Testing	Group task assignment (4-5 person)
	11.00-12.45	Cybersecurity for beginner's: <b>Malware detection</b>	Machine Learning-Based Malware Detection Technical requirements Malware static analysis Malware dynamic analysis Building a static malware detector Tackling class imbalance Handling type I and type II errors		
2025.07.29	9.00-10.45	Group Task presentation (10 minutes / group)		Social engineering	
	11.00-12.45	Cybersecurity for beginner's: <b>Social engineering</b>	Twitter spear phishing bot Voice impersonation Speech recognition for OSINT Facial recognition Deepfake Deepfake recognition Lie detection using machine learning Personality analy		
	9.00-10.45	Cybersecurity for beginner's: <b>Penetration testing</b>	CAPTCHA breaker Neural network-assisted fuzzing DeepExploit Web server vulnerability scanner using machine learning (GyoiThon) Deanonymizing Tor using machine learning IoT device type identification using machine learning Keystroke dynamics Malicious URL detector Deep-pwning Deep learning-based system for the automatic detection of software vulnerabilities	Securing and attacking data	Group task assignment (2x10 person)

	11.00-12.45	Cybersecurity for beginner's: <b>Securing and attacking data</b>	Assessing password security using ML Deep learning for password cracking Deep steganography ML-based steganalysis ML attacks on PUFs Encryption using deep learning HIPAA data breaches – data exploration and visualization	Securing and attacking data	
2025.07.31	09.00-10.45	Cybersecurity in practice	Password cracking, Malware detection		
	11.00-12.45	Cybersecurity in practice	How to use AI		
2025.08.01	9.00-10.30	<b>Group Presentation, feedback</b>			
	10.00-13.00				
2025.08.02	Individual Activities				
2025.08.03	Individual Activities				
SECOND WEEK (IN PERSON) August 4 - August 8					
Day	Time	Lesson	Thematic	Practical Task	Group Task
2025.08.04	9.00-10.45	Cybersecurity			
	11.00-12.45	Cybersecurity			
2025.08.05	9.00-10.45	Artificial Intelligence and Machine Learning			
	11.00-12.45	Artificial Intelligece and Deep Learning			
2025.08.06	9.00-10.45	AI and cybersecurity	How to use AI to attack		Group task assignment (4-5 person)
	11.00-12.45	AI and cybersecurity	Deepfake, fake news in social media		
2025.08.07	9.00-10.45	<b>Group Presentation, feedback</b>			
	11.00-12.45	Network Security			
2025.08.08	9.00-10.45	<i><b>EKIK (University Research and Innovation Center) iROB Lab visit</b></i>			
	11.00-12.00	<b>Course closure, feedback</b>			
2025.08.09	Departure				