

<b>Software Engineering Institute</b>			Semester 1. of the curriculum 2025-26-1			
Name of the subject:	Code of the subject:	Credits:	Weekly hours:			
				lec	sem	lab
<b>Current results in the Areas of IT engineering</b>	NSWMIDEBNE	2	full-time	1		
Responsible person for the subject: Dr. habil József Tick			Classification:			
Subject lecturer(s): Dr. habil József Tick, Prof. Dr. Dominik Schoop, Prof. Dr. Martin Zieher						
Prerequisites:	---					
Way of the assessment:	Midyear grade					
<b>Course description</b>						
Goal:	Students will learn the current results in computer science – especially in the modern network solutions and in the cyber security.					
Course description:	<p>Modern network solutions:  Next Generation Internetwork Protocol IPv6 (IPnG),  Internetwork Control Message Protocol ICMPv6,  Migration from IPv4 -&gt;IPv6 IP-Trans  Secure Internetwork Protocol IP-SEC  Mobile Internetwork Protocol Mobile-IP</p> <p>Cyber Security:  Introduction in the IT security, (Goals, Incidents and Vulnerabilities),  Concepts in IT Security,  Security Risk Management,  Attacks in Communication, Attacks in TCP/IP Networks, Attacks on Systems.</p>					

<b>Lecture schedule</b>	
Education week	Topic
1.	Break
2.	Break
3.	Break
4.	Oct. 2. 15:20-18:35 Cyber Security I. Lecture Oct. 3. 15:20-18:35 Cyber Security II. Lecture Lectures in concentrated form with personal attendance (in blocks) The participation is precondition of the midyear grade!
5.	Oct. 7. 15:20-18:35 Modern Network Solutions I. Lecture Oct. 8. 15:20-18:35 Modern Network Solutions II. Lecture Lectures in concentrated form with personal attendance (in blocks) The participation is precondition of the midyear grade!
6.	Break
7.	Oct. 16. 15:20-17:00 Midterm test with personal attendance (ZH)
8.	Break
9.	Nov. 30. 15:20-17:00 Make-up test with personal attendance (PótZH)
10.	Break
11.	Break
12.	Break
13.	Break
14.	Break

<b>Mid-term requirements</b>	
Conditions for obtaining a mid-term grade/signature	The course ends with midterm mark. There are two preconditions of getting a mark: 1. participation in the lectures, and 2. valid test result of a written assessment. Students must reach at least 50% on the written assessment (Midterm Test) otherwise students can have a written make up assessment (Make-up Test). Preconditions of midterm mark based on the results in the semester.
<b>Assessment schedule</b>	
Education week	Topic
7	Midterm test with personal attendance (ZH)
9	Make-up test with personal attendance (PótZH)
<b>Method used to calculate the <i>mid-term grade</i></b> (to be filled out only for subjects with mid-term grades)	
0-19% banned (letiltva) 20-49% failed (1) 50-62% satisfactory (2) 63-74% average (3) 75-87% good (4) 88-100% excellent (5)	
<b>Type of the replacement</b>	
Type of the replacement of written test/mid-term grade/signature	If students did not achieve valid midterm mark during the semester, but achieved at least 20%, can participate in a retake during the first ten days of the examination period.
<b>Type of the exam</b> (to be filled out only for subjects with exams)	
<b>Calculation of the exam mark</b> (to be filled only for subjects with exams)	
<b>Final grade calculation methods:</b>	
<b>References</b>	
Obligatory:	Teaching material in the Moodle system.
Recommended:	
Other references:	