

Title of the course: Informatics 1.		NEPTUN-code: RMEIF1EBNF	Weekly teaching hours: 1+0+3	Credit: 4 Exam type: tm
Course leader: Eszter Kormany Phd		Position: senior lecturer	Required preliminary knowledge: -	
Curriculum:				
The aim of the course is to form a basis of informatics for the respective university studies and for the subsequent engineering career as well. Throughout the lectures one will receive insight of the formation, development, current state and areas of development related to the science of informatics. The course covers computer architectures and the necessary hardware and software components as well as the application of the ethical and safe use. The seminars are focusing on data analysis, problem solving and building algorithms. The skills acquired thereof could be applied to solve tasks of the corresponding subjects and to professional work later.				
Curriculum Description:				
<i>Topics of e-learning and practices:</i>				
Week of Semester	Topic E-learning course			
14/09	Deadline of Excel Basics			
28/09	Deadline of Excel Financial Functions			
06/10	Deadline of Word and PPT			
19/10	Deadline of Solver			
02/11	Deadline of Excel as Database			
16/11	Deadline of Power BI			
01/12	Retake Test			
Week of Semester	Topic Practices			
08(09)/09	MsOffice Application Excel Basics			
15(16)/09	MsOffice Application Excel Financial Functions			
22(23)/09	MsOffice Application Excel What-if Analysis Goal Seek, Data Table)			
29(30)/09	MsOffice Application Word and PPT			
07/10	Test (Word, PPT)			
13(14)/10	MsOffice Application Excel Solver Linear Equations			
20(21)/10	MsOffice Application Excel as Database (Sort, Filter, Advanced Filter)			
27(28)/10	MsOffice Application Excel as Database (Pivot Table, Power Pivot)			
03(04)/11	Power BI			
11/11	Test (Excel and data analysis)			

17(18)/11	Break
24(25)/11	Presentations
02/12	Retake Test
08(09)/12	Evaluation of semester
Mid-semester requirements:	
Attendance:	
The lectures are compulsory. The rules of education and exam directory (TVSZ) are the guidelines.	
Test papers, measurement records, reports, etc. (number, date)	
Upload the homework into the Moodle eLearning system. The deadline is 23/11/2025. 6 PM	
Test: 07/10/2025 and 11/11/2025	
Retake test 02/12/2025	
Professional competencies:	
In possession of state-of-the-art IT skills, being able to use professional databases and certain design, modelling, and simulation softwares depending on their specialty. Adequate perseverance and endurance of monotony to perform practical operations.	
Literature:	
PPT files on the homepage of Moodle learning system	