Óbudai University						Institute of Mechatronics and Vehicle				
Donát Bánki Faculty of Mechanical and Safety Engineering Engineering Course name and Neptun-code: Informatics II. BGRIA2HNEC, BGRIA2ENND Credits: 3										
		he Academic year 20		MAZHNE	С, В	GKIAZE	NND	Credits: 3		
		ect is taught: BSc in		ronics					_	
		. Laufer Edit								
		Neptun Codes)			Info	rmatics I.	BGRIA	A1HNEC, BGRIA1ENND		
Lessons per week:		Theory: 2 Practi	ce (in Aı			Lab: 0		Consultation:		
Exam type (s,										
The Syllabus										
Aim: Developing algorithmic thinking, introducing the basic tools of programming, which are needed during										
engineering work. The acquisition of basic algorithms and data structures.										
Schedule										
Weeks	Topics									
1.	The aim and tools of computer programming. Structured programming. Event-driven programming.									
2.	Basic data structures and their operations. (integers, real, boolean). Conditional statement.									
3.	Loops. Array data structure. Graphics.									
4.	Elementary programming items. Sort and search algorithms.									
5.	Character and string type.									
6.	File management.									
7.	Holiday									
8.	Test paper I.									
9.	Object oriented programming (inheritance, encapsulation)									
10.	Object oriented programming (polymorphism, static and virtual methods)									
11.	OOP case studies									
12.	Relational database management									
13.	SQL basics									
14.	Test paper II.									
Requirements										
Wee	eks				Test	papers				
8		Test paper I.								
14	1	Test paper II.								
The evaluation criterias									_	
The evaluation criterias The participation is governed by TVSZ III.23.§ (1)-(4).										
All main areas of the course are evaluated by test papers. The course is to be considered successfully executed and										
a signature is obtained if and only if both test papers are written.										
5	a. 1 D. 1					1	/ 1 1	to the state of th		
Based on the Study Regulations III.6.(4), the student receive offered grade if he/she has written both test papers with grades higher than 3.										
with grades in	igner than 3.									
All matters w	hich are not o	covered in this docum	nent the	Study and	Exa	amination	Rules a	and the provisions of the		
All matters which are not covered in this document, the Study and Examination Rules and the provisions of the Study Regulations, valid at Óbuda University, prevails.										
The semester closing method (method of examination: written, oral, testing, etc.).										
Written exam										
Literature: le	ecture notes									
Quality Assurance:										
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tantárgyfelelős főigazgató										