							Institute of Mechatronics and Vehicle			
Donát Bánki Faculty of Mechanical and Safety Engineering Engineering										
Course name and Neptun-code: Informatics II. BMXI2EHBNE, BGRIA2ENND Credits: 3										
Full time, 2 nd Semester of the Academic year 2017/18. Faculties in which the subject is taught: BSc in Mechatronics										
Supervised by: Tóthné Dr. Laufer Edit Prerequisites conditions: (Neptun Codes) Informatics I. BMXI1EHBNE, BGRIA1ENND										
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Lessons per week:		Theory: 2 Practice (in Auditorium): 0				: 0	Lab: 0 Consultation:			
Exam type (s,	v,f):	v m. c. n. i								
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										
	The aim and tools of computer programming. Structured programming. Event-driven programming.									
1. 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.	Test I.									
8.	Holiday.									
9.	Object oriented programming (inheritance, encapsulation)									
10.	Object oriented programming (innertance, encapsulation) Object oriented programming (polymorphism, static and virtual methods)									
11.	Relational database management.									
12.	SQL basics.									
13.	Test II.									
14.	Test II. Test retake									
Requirements										
Weeks		Test papers								
7		Test paper I.								
Test paper II.										
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.										
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.										
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.										
Study Regular					<u> </u>		•	-		
XX7 ***		ster closing m	ethod	(method	ot examin	ation	ı: written, o	oral, te	esting, etc.).	
Written exam										
Literature: lecture notes										

Quality Assurance: