

Óbudai University Donát Bánki Faculty of Mechanical and Safety Engineering			Institute of Mechatronics and Vehicle Engineering	
Course name and Neptun-code: Informatics laboratory BGRIA2ENND, BGRIALKTNC Credits: 2 <i>Full time, 2nd Semester of the Academic year 2015/16.</i>				
Faculties in which the subject is taught: BSc in Mechatronics				
Supervised by: Tóthné Dr. Laufer Edit				
Prerequisites conditions: (Neptun Codes)			Informatics I. BGRIA1ENND	
Lessons per week:	Theory: 0	Practice (in Auditorium): 0	Lab: 3	Consultation:
Exam type (s,v,f):	é			
The Syllabus				
Aim: Show the basic computer programming techniques and approaches. Students learn about the basic algorithms and data structures using an easy to learn programming language. This subject helps to solve complex engineering problems.				
Schedule				
Weeks	Topics			
1.	RAD Studio environment Event management. Basic components.			
2.	Application of mathematical functions. Calculator. Conditional statement.			
3.	Loops. TMemo component.			
4.	Array data structure. TStringGrid component.			
5.	Procedures, functions. Elementary programming items.			
6.	Test paper I.			
7.	Character and string operations			
8.	Text file management (creation, input, listing, selecting)			
9.	Text file with separator character.			
10.	File management based on records.			
11.	Graphics. Selection components.			
12.	File management. Solving complex tasks.			
13.	Test paper II.			
14.	Substitutional test paper			
Requirements				
Weeks	Test papers			
6	Test paper I.			
13	Test paper II.			
14	Substitutional test paper			
<i>The evaluation criterias</i>				
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.				
The students obtained disabled entry if they none of the test papers wrote, or the absences exceed the number of lessons specified in the TVSZ.				
The student obtain grade 1, if he/she obtained grade 1 for one of the test papers, and he/she could not it improved as a substitutional test paper.				
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: lecture notes				

Quality Assurance: