Óbudai University Donát Bánki Faculty of Mechanical and Safety Engineering	Institute of Mechatronics and Vehicle Engineering

Course name and Neptun-code: Informatics laboratory. BGRIALANND	Credits: *2*

Full time, 1ˢᵗ Semester of the Academic year 2017/18.

Faculties in which the subject is taught: **BSc in Mechanical engineering**

Supervised by: **Tóthné Dr. Laufer Edit**

Prerequisites conditions: (Neptun Codes)	Informatics I. BGRIA1ANND

Lessons per week:	Theory: **0**	Practice (in Auditorium): **0**	Lab: **2**	Consultation:

Exam type (s,v,é):	**é**

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.	Event management. Basic components and data structures. Conditional statement. Mathematical functions.
2.	Loops. Array data structure. TSringGrid component.
3.	Elementary programming items I.
4.	Elementary programming items II.
5.	**Test I.**
6.	Character and string type.
7.	Character operations. Strings as character arrays.
8.	String operations.
9.	File management
10.	File management in practice
11.	Holiday
12.	Special character separated text file
13.	**Test II.**
14.	**Test retake**

Requirements

Weeks	Test papers
5	Test I.
13	Test II.

The evaluation criterias

The participation is governed by TVSZ III.23.§ (1)-(4).

All main areas of the course are evaluated by tests. These tests contain both theory and practical tasks. **Signature** is obtained if and only if both tests are written. Grade is calculated from the average of the tests.

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: