

Óbuda University <i>Kandó Kálmán Faculty of electrical engineering</i>		Institute of Instrumentation and Automation	
Name and code of the subject: <i>Programming I</i> <i>KMAPR11AND</i> Credits: 3			
<i>2nd semester</i>			
Specialization: Electrical engineer,			
Subject leader:	Dr. Boráros-Bakucz András	Teachers:	Dr. Schuster György, Sándor Tamás
Prerequisites: (codes)			
Number of lessons:	Lecture: 2	Seminar: 0	Laboratory exercise: 0 Consultation:
Way of marking (si,e,se):e	exam		
Education material			
<i>Goal of education: Students should learn the basics of C program language .They should be able to think in constructive way and they should know the basic algorithms.</i>			
<i>Topics of lessons:</i>			
Topic:		Week	Lessons
History of programming. High level programming languages.		1.	
Algorithm of task solution with computers.		2.	
Basic algorithms. Search and sort algorithms.		3.	
Methodologies.		4.	
Basics of C program languages.		5.	
C operators and variables.		6.	
C data structures, arrays, structures, unions.		7.	
C data structures. Interface viewpoint.		8.	
Modules, modular programming.		9.	
Standard functions, printf, scanf		10.	
Low level file handling		11.	
High level file handling.		12.	
Test work 1.		13.	
Test work 2.		14.	
Requirements			
Visit of the lectures is obligatory. To acquire of semester mark is at least a successful test work. The test work contains 10 questions. Students should answer each question with a short sentence. An answer can get 0, 0.5 or 1 point. A test work is successful if it reaches at least 6 points.			
Literature: 1180 Schuster György, Dr. Simán István C programozás BorlandC++ 3.11 környezetben.			