Óbuda University *Kandó Kálmán Faculty of electrical engineering*			Institute of Instrumentation and Automation		
Name and code of the subject: *Programming I* *KMXPR1ABNE* Credits*: 2* *2nd semester*					
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

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.

Topics of lessons:

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.