

<b>Óbuda University</b> <i>Kandó Kálmán Faculty of electrical engineering</i>		Institute of Instrumentation and Automation	
<b>Name and code of the subject:</b> <i>Programming I</i> <i>KMAPRIIAND</i> Credits: <i>3</i>			
<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		
<b><i>Education material</i></b>			
<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>			
<b>Topic:</b>		<b>Week</b>	<b>Lessons</b>
History of programming. High level programming languages.		<b>1.</b>	
Algorithm of task solution with computers.		<b>2.</b>	
Basic algorithms. Search and sort algorithms.		<b>3.</b>	
Methodologies.		<b>4.</b>	
Basics of C program languages.		<b>5.</b>	
C operators and variables.		<b>6.</b>	
C data structures, arrays, structures, unions.		<b>7.</b>	
C data structures. Interface viewpoint.		<b>8.</b>	
Modules, modular programming.		<b>9.</b>	
Standard functions, printf, scanf		<b>10.</b>	
Low level file handling		<b>11.</b>	
High level file handling.		<b>12.</b>	
Test work 1.		<b>13.</b>	
Test work 2.		<b>14.</b>	
<b>Requirements</b>			
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.			
<b>Literature:</b> 1180 Schuster György, Dr. Simán István C programozás BorlandC++ 3.11 környezetben.			