Óbuda University					Department of Instrumentation ans Automation					
Kandó Kálmán Faculty of Electrical Engineering										
Subject name and code: Object Oriented Methodology KMVOMIABNE Credits: 4										
Specializations: all, free-choice subject										
Subject leader:	Dr. Schuster György			Teacher	FeachersDr. Schuster György					
Prerequisites: none										
Lectures:	Theory	y: 2	Seminar.: 0		La	b. Exec.: 0	Con	sultations: 0		
demands :	Semest	Semester mark								
Education material										
Aim of education: Students should be familiar with the basics of that object-oriented methodology and be able to solve simple problems in basic C $++$ and Python. The subject provides a basis for other subjects using the OOP methodology										
Topics:								Week:		
Methodological overview and new features of OOP. Areas of application of OOP.								1.		
Inheritance problems in C ++ through a sample.								2.		
Constructor, destructor example. Dynamic objects.								3.		
Content relation 7-segment display example.								4.		
Virtual function. Button example. Late binding.								5.		
Operator overloading. Example of complex arithmetic and example of spatial rotation.								6.		
this is an example of a double-chained list that implicitly shows.										
Static data members and methods. Reference type variables.										
Copy constructor. Error handling.										
The Python object is oriented. Python basics.										
Create your own objects, oscilloscope, pointing instrument.										
Use of factory modules, FFT, serial port, TCP / IP.								12.		
Creating event management objects. Program generators.								13.		
Test work								14.		
Demand of the semester										
The semester ends with a mid-year ticket. At the end of the semester, students write an 20-										
question electronic test. The test questions contain 3 answers, one of which is correct. A										
condition for a sufficient grade is the correct answer to 4 questions. The scores increase in										
direct proportion	to the in	ncrease	in the score							
			Lite	erature:						
Obligatory: Materials issued by the instructor Recommended: Biarne Stroustrup: $C ++$ (free download pdf)										

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