						
Óbuda University				Institute of Software Engineering		
	eumann Faculty) (MINGEOFE)			
Name and	l code: Softwar	e design and Development II. (Exa	m) (NIXSF2EBI	NE)	Credits: 6	
Computer S	Science BSc		Daytime 20	Daytime 2020/21 year II. semester		
Subject lect	urers: Dr. Lász	ló Csink				
Prerequisites: Software design and development I (NIXSF1EBNE)						
(with code)						
Weekly hou		Lecture: 0 Seminar: 0 Lab. hours: 0 Consultation: 0				
Way of asse	essment:	Examination	·			
		Course de				
Goal: Based on SWDD I, the goal is to deepen theoretical and practical knowledge in software design and development.						
Course description: Programming paradigms. Inheritance. Method hiding. Polymorphism. Abstract classes and interfaces						
Iterators. Components. Operator overloading. Exceptions. Generic classes. Advanced sorting. Dynamic arrays. Lists						
Queue and stack. Binary search tree. Red and black tree. B-tree. Heaps. Directed and undirected graphs. Trees. Spannin						
trees. Kruskal and Prim algorithm. Connected components. Search for a path in the graph. Hashing. Maximal flow.						
Lecture schedule						
Education		Top	nic			
week						
		Midterm req	quirements			
Midterm Test Scheduling						
Education	ation Topic					
week		10]	pic			
Midterm grade calculation methods						
Method of replacement						
Type of exam						
Online or written exam, depending on the pandemic situation.						
The material of the exam coincides with that of the actual running course.						
Exam grade calculation methods						
		Achieved result	Grade			
		89-100%	excellent (5)			
		76-88%	good (4)			
		63-75%	average (3)			
			satisfactory (2)			
		0-50%	failed (1)			
		Refere	nces			
Obligatory:						
		s E. Leiserson, Ronald L. Rivest,	Clifford Stein: In	ntroduction	n to Algorithms, The MIT Press	
(downloadab						
Recommende	ed:					
0.1						
Others:						