Óbuda University				Institute of Software Engineering		
John von Neumann Faculty of Informatics Name and code: Software design and Development II. (Exam) (NI						
1 value and code. Software design and Development II. (Exam) (NIASI 2EDIVE)						
Computer Science BSc szak Daytime tagozat 2022/23 tanév II. félév						
Subject lecturers: Dr. László Csink						
Prerequisites: (kóddal)		Software design and development I (NIXSF1EBNE)				
Weekly hours:		Lecture: 0 Seminar: 0 Lab. hours: 0 Consultation: 0				
Way of assessment:		Examination				
Course description						
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. Spanning trees. Kruskal and Prim algorithm. Connected components. Search for a path in the graph. Hashing. Maximal flow.						
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Lecture schedule						
Education						
week	Topic					
		Midterm req	uirements			
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Midterm Test Scheduling Education						
week	Topic					
Woon						
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						
Exam grade calculation methods						
		Achieved result	Grade			
			excellent (5)			
76-88% goo			good (4)			
		63-75%	average (3)			
			atisfactory (2)			
	$\boxed{0-50\% \qquad \qquad \text{failed } (1)}$					
References						
Obligatory:						
Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein: Introduction to Algorithms, The MIT Press (downloadable)						
(downloadable) Recommended:						
Others:						