Óbuda University John von Neumann Faculty of Informatics	Institute of Software Engineering	
Name and code: Software design and Development I (Exam) (NIXSF1EBNE)		**Credits:** 6
Computer Science BSc	*Daytime 2020/21 year I. semester*	

Subject lecturers: Dr. László Csink				
Prerequisites: (with code)				
Weekly hours:	Lecture: 0	Seminar: 0	Lab. hours: 0	Consultation: 0
Way of assessment:	Examination			

Course description

Goal: Students will learn the rudiments and main methods of OOP, as well as get an introduction to a modern OO programming language.

Course description: The main competences: Algorithm design, control structures. Description of algorithms. Simple and Comopund Basic Programs. Combining Basic Programs. The OOP paradigm: objects, classes, encapsulation, hiding, inheritance, polymorphism. Sorting and searching. Sets. Recursion. Mergesort and Quicksort. Elementary number theoretical algorithms.

Lecture schedule

Education week	Topic

Midterm requirements

Midterm Test Scheduling

Education week	Topic

Midterm grade calculation methods

Method of replacement

Type of exam

The exam will be written (no oral exam).

Exam grade calculation methods

	Achieved result	Grade	
	89-100%	excellent (5)	
	76-88%	good (4)	
	63-75%	average (3)	
	51-62%	satisfactory (2)	
	0-50%	failed (1)	

References

Obligatory:

Al Aho and Jeff Ullman: Foundations of Computer Science
http://infolab.stanford.edu/ ullman/focs.html

Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein: Introduction to Algorithms, The MIT Press; 3rd edition (July 31, 2009).

Recommended:

http://users.nik.uni-obuda.hu/csink/aao

Others: