Óbuda University		Institute of Software Engineering				
John von Neumann Faculty	of Informatics	Institute of Software Engineering				
Name and code: Advance	ed Software Engineering (NIXSF1EBN	E) Credits: 3				
Computer Science MSc		Daytime 2020/21 year I. semester				
Subject lecturers: Dr. habil József Tick						
Prerequisites:						
(with code)						
Weekly hours:	Lecture: 3 Seminar: 0 Lab. hour	s: 0 Consultation: 0				
Way of assessment:	Midyear grade					
Course description						
Goal: Students will learn the theory and praxis of advanced Software Engineering.						
Course description: Formalism of the description of information technology- and software-systems, modeling, designing						
and developing complex information systems, design, model-based development methods of software systems, quality-based						
approach of software development. Verification, validation and testing of software systems. Agile approach, Software reuse						
Component-based software engineering, Service-oriented software engineering.						

	Lecture schedule				
Education week	Topic				
1	Requirements, assessments, scheduling, learning techniques				
2	Introduction; Software processes				
3	Agile software development; Requirement engineering				
4	System modelling; Architectural design				
5	Design and implementation				
6	Software testing				
7	Software evolution				
8	Safety engineering				
9	Security engineering				
10	Software reuse				
11	Component-based software engineering				
12	Service-oriented software engineering				
13	Midterm test				
14	Make-up test				
Midterm requirements					
Preconditions of signature and midterm mark: the signature and the midterm mark are based on the results of a written assessment in the 13th week. Students must reach at least 50% on the written assessment otherwise students can have a make up test in the last week of the semester. Preconditions of signature based on test results: 20% or more => signature (aláírás) or below $20%$ => disabled (letiltva)					
Midterm Test Scheduling					
Education week	Topic				
13	Midterm Test				
14	Make up Test (if necessary)				
Midterm grade calculation methods					
$\begin{array}{ c c c }\hline 0.49\% & \text{failed (1)} \\ \hline 50.62\% & \text{satisfactory (2)} \\ \hline \end{array}$					

50	0-62%	satisfactory (2)			
6	3-74%	average (3)			
7	5-87%	good(4)			
88	8-100%	excellent (5)			
Method of replacement					
If students did not achieve valid midterm mark during the semester, but achieved at least 20% (signature), can participate					
in a retake during the first ten days of the examination period.					
Type of exam					
Exam grade calculation methods					
Boforoncos					

References

Obligatory: Ian Sommerville: Software Engineering 10th Edition

Recommended:

Roger S. Pressman, Bruce R. Maxim: Software Engineering – a practitioner's approach 8th Edition Others:

Teaching materials in the Moodle system.