



Меѓународен Универзитет Визион - International Vision University  
 Universiteti Ndërkombëtar Vizion - Uluslararası Vizyon Üniversitesi

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## SYLLABUS

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
SOFTWARE ENGINEERING	4020	4	180	6

Prerequisite(s)	None
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Course Language	Turkish
Course Type	Required
Course Level	First Cycle
Course Lecturer	
Course Assistants	
Classroom	
Extra Curricular Office Hours and Location	

Course Objectives	This course aims to introduce the concepts of Software Engineering and Management of Software Projects. The intensive content of the course presents a broad view of common Software Engineering topics such as process models, project management, software analysis and design, software testing and etc.
Course Learning Outcomes	After completion of this course the student should be able to: <ul style="list-style-type: none"> <li>• Understand the software processes;</li> <li>• Be familiar with software project management concepts;</li> <li>• Analyze and design of complex software systems;</li> <li>• Make systematic and formal software testing and be familiar with testing tools;</li> <li>• Gain a broad knowledge on popular methods in software engineering;</li> </ul>
Course Contents	The content includes:  Fundamental of Software Engineering, Project estimation methods and project planning, Requirements analysis, Software Design(data flow based design, data structure based design), Software Design (object oriented design), Software test techniques etc.

## WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

<b>Week</b>	<b>Subjects</b>	<b>Related Preparation</b>
<b>1</b>	Fundamental of Software Engineering	Related Chapters of Course Sources
<b>2</b>	Project estimation methods and project planning	Related Chapters of Course Sources
<b>3</b>	Requirements analysis	Related Chapters of Course Sources
<b>4</b>	Software Design(data flow based design, data structure based design)	Related Chapters of Course Sources
<b>5</b>	Software Design (object oriented design)	Related Chapters of Course Sources
<b>6</b>	Implementation	Related Chapters of Course Sources
<b>7</b>	Mid-term Exam	Related Chapters of Course Sources
<b>8</b>	Quality of software and reliability	Related Chapters of Course Sources
<b>9</b>	Software test techniques	Related Chapters of Course Sources
<b>10</b>	Software Installation, maintenance	Related Chapters of Course Sources
<b>11</b>	Configuration management	Related Chapters of Course Sources
<b>12</b>	Software architecture	Related Chapters of Course Sources
<b>13</b>	Computer Aided Software Development	Related Chapters of Course Sources
<b>14</b>	Software re-usability	Related Chapters of Course Sources
<b>15</b>	Final Exam	Related Chapters of Course Sources

**ECTS / WORKLOAD TABLE**

Presentation / Seminar			
Hours for off-the-classroom study (Pre-study, practice)	14	3	42
Midterm Exam	1	12	12
Final examination	1	14	14
<b>Total Work Load</b>			
<b>ECTS</b>		<b>6</b>	

**GENERAL PRINCIPLE RELATED WITH COURSE**

Dear students,

In order to be included, learn and achieve full success that you deserve in the courses you need to come well prepared by reading the basic and secondary textbooks. We are expecting from you carefully to obey to the course hours, not to interrupt the lessons unless is very indispensable, to be an active participant on the courses, easily to communicate with the other professor and classmates, and to be interactive by participating to the class discussions. In case of unethical behavior both in courses or on exams, will be acting in framework of the relevant regulations. The attendance of the students will be checked in the beginning, in the middle or at the end of the lessons. Throughout the semester the students who attend to all lectures will be given 15 activity-attendance points in addition to their exam grades.

**SOURCES****COMPULSORY LITERATURE**

No	Name of the book	Author's Name, Publishing House, Publication Year
1	Yazılım Mühendisliği	M.Erhan Sarıdoğan, 1 <sup>st</sup> ed. Papatya Yayıncılık, 2004
2	Софтверско инженерство	Иан Самервил, Просветно дело, 2009
3	Software Engineering	Ian Sommerville, 9 <sup>th</sup> ed. Addison Wesley, 2010

**ADDITIONAL LITERATURE**

No	Name of the book	Author's Name, Publishing House, Publication Year
1	Yazılım Mühendisliği	Ali Arifoğlu & Ali Doğru
2	Software Engineering: A Practitioner's Approach	Roger S Pressman McGrawHill Education 2010
3		

## **EVALUATION SYSTEM**

<b>Underlying the Assessment Studies</b>	<b>NUMBER</b>	<b>PERCENTAGE OF GRADE</b>
Attendance/Participation	15	%10
Project / Event	1	%20
Mid-Term Exam	1	%35
Final Exam	1	%35
<b>TOTAL</b>	<b>17</b>	<b>%100</b>

## **ETHICAL CODE OF THE UNIVERSITY**

In case of the students are cheating or attempt to cheat on exams, and in the case of not to reference the sources used in seminar studies, assignments, projects and presentations, in accordance to the legislations of the Ministry of Education and Science of Republic of Macedonia and International Vision University, will be applied the relevant disciplinary rules. International Vision University students are expected never to attempt to this kind of behavior.