



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

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SYLLABUS

COURSE NAME	COURSECODE	SEMESTER	COURSE LOAD	ECTS
SOFTWARE ENGINEERING	CEN - 2008	4	180	6

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

Course Objectives	Learning software development process models, software, software engineering, concept of computer system engineering, Project estimation methods and planning of software projects, requirements analysis and methods of analysis, concept of software design and basis of software design, Data flow based design, data structure based design, Object oriented design, real time system design, the significance of programming languages and coding in software development, software quality factors and reliability, software testing techniques, software installation and maintenance stages, software architectures, the purpose and structure of computer-aided software development tools, the concept of re-usability of software and current issues about software development.
Course Learning Outcomes	<ol style="list-style-type: none"> 1-Learning the basic processes of software development and software development process models 2-Gaining skills and knowledge about high quality and low cost software development 3-Having knowledge of fundamentals of software project management 4-Being able to apply all processes of software development 5-Knowing the importance of Software engineering discipline and gaining awareness of software development according to this in professional career 6-Gaining the ability of adaptation to changing occupational conditions
Course Contents	The course starts with the explanation of software, software engineering, computer system engineering concepts and software development process models. After the description of project estimation methods and project planning, software development stages (planning, analysis, design, implementation, testing, installation and maintenance) are described in detail. Products used for development of computer aided software and software architecture is mentioned. Also, assignments, aimed to teach existing products and methods in software engineering is given.

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

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

GENERAL PRINCIPLE RELATED WITH COURSE

Dear students,

You need to be included in the flow, please follow the course of learning and using that to achieve our success you deserve, you need to practice every day on topics that are covered by the course. It takes practice reading basic and auxiliary literature that is strictly recommended. You should visit classes course I need to make an effort to visit all the professors' lectures. Your activity on the session will be assessed by your professors and the Battle active participant in the discussions that will take place during the time. Students visiting lectures for all at the end if an additional 15 points.

SOURCES

COMPULSORY LITERATURE		
No	Name of the book	Author's Name, Publishing house, Publication Year
1	Yazılım Mühendisliği,	M.Erhan Sarıdoğan,
2	Софтверско инженерство	Иан Самервил Просветно дело 2009
3	Software Engineering	Ian Sommerville, 9 th edition Addison Wesley 2010

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

EVALUATION SYSTEM

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

ETHICAL CODE OF THE UNIVERSITY

In case students are cheating on exams or preparation the same, it is not making reference to the source to be used in studies, as for example in assignments, projects and presentation (plagiarism), in accordance with legislations by Ministry of Education and Science of the Republic of Macedonia and International Vision University, apply relevant disciplinary rules. International Vision University students are expected never attempts in this kind of behavior.