



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

Adres: Ul. Major C. Filiposki No.1, Gostivar – Makedonya
tel: +389 42 222 325, www.vizyon.edu.mk, info@vizyon.edu.mk

DERS İZLENESİ (SYLLABUS)

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
MENAGING SOFTWARE PROJECTS	4034	7	180	6

Prerequisite(s)	None
-----------------	------

Course Language	Turkish
Course Type	Elective
Course Level	First Cycle
Course Lecturer	
Course Assistants	
Classroom	
Extra Curricular Office Hours and Location	

Course Objectives	<p>The goal of this course to arm the students with the knowledge needed in architecting effective and maintainable complex software systems of high quality by applying design patterns. Each pattern represents a best practice solution to a software problem in some context. The course will sensitize the student that there is rarely one "right" design and an engineer is faced with a spectrum of possibilities representing tradeoffs. The course will cover the rationale and benefits of design patterns in architecting software systems. The course includes a brief review of object oriented design principles and UML. Programming assignments and a project in the C++ language will provide experience in the use of these patterns.</p>
Course Learning Outcomes	<p>The students who succeeded in this course;</p> <ul style="list-style-type: none">Be able to identify the classification of a patternBe able to state the intention of the pattern and show in UML notation.Be able to identify the participants and describe their responsibilities.Be able to contrast the difference in intentions between structurally similar patterns.Be able to apply several appropriate patterns in the design of small programming assignments.Be able to select appropriate design patterns to improve an existing design.
Course Contents	<p>This course covers the principals behind the software design patterns and their application in constructing software components</p>

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Introduction to Design Patterns	Related Chapters of Course Sources
2	A refresher on Object Oriented Design and UML.	Related Chapters of Course Sources
3	Iterator Pattern (Behavioral)	Related Chapters of Course Sources
4	Composite Pattern (Structural)	Related Chapters of Course Sources
5	Command Pattern (Behavioral)	Related Chapters of Course Sources
6	Factory and Abstract Factory (Creational)	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Singleton Pattern (Creational)	Related Chapters of Course Sources
9	Facade Pattern (Structural)	Related Chapters of Course Sources
10	Adapter Pattern (Structural)	Related Chapters of Course Sources
11	Template Pattern (Structural)	Related Chapters of Course Sources
12	Observer Pattern (Behavioral)	Related Chapters of Course Sources
13	Visitor Pattern (Behavioral)	Related Chapters of Course Sources
14	Review	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	Uluslararası Hukukun Esasları,	SUR Melda, İstanbul, Beta Yayınları, 2013
2	Principles of Public International Law	BROWNLIE Ian, Seventh Edition, London, Oxford University Press, 2008
3	Меѓународно јавно право	Фрчкоски, Љ. Д., С. Георгиевски, Т.Петрушевска, , Магор, Скопје, 2012.

ADDITIONAL LITERATURE		
No	Name of the book	Author's Name, Publishing house, Publication Year
1	Uluslararası hukuk	PAZARCI Hüseyin, Turhan Kitabevi, Ankara, 2013
2	International law	Malcolm N. Shaw, sixth edition, Cambridge University Press, 2008
3	Меѓународно јавно право	Фрчкоски Љ. Д., Тупурковски В., Ортаковски В., Табернакул, Скопје, 1995

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.