



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
ARTIFICIAL INTELLIGENCE	4044	8	180	6

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

Course Objectives	The main purpose of this course is to gain the ability for problem solving using the artificial intelligence algorithms.
Course Learning Outcomes	In the end of this course the students will be able to: <ul style="list-style-type: none"> • To determine a problem if it is appropriate to the AI methods or not; • To use the appropriate AI methods for solving the problems.
Course Contents	The contents of this course are: Learning artificial intelligence method, applications, languages, The history of AI, Blind Search Algorithms, Heuristic Search Algorithms, Local Search Algorithms, Genetic Algorithms, Game Algorithms, Reasoning Mechanisms, Prolog Programming Language, Knowledge Representation, Expert Systems, and Machine Learning Algorithms.

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Course Introduction	Related Chapters of Course Sources
2	The history of AI	Related Chapters of Course Sources
3	Blind Search Algorithms	Related Chapters of Course Sources
4	Heuristic Search Algorithms	Related Chapters of Course Sources
5	Local Search Algorithms	Related Chapters of Course Sources
6	Genetic Algorithms	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Game Algorithms	Related Chapters of Course Sources
9	Reasoning Mechanisms	Related Chapters of Course Sources
10	Prolog Programming Language	Related Chapters of Course Sources
11	Knowledge Representation	Related Chapters of Course Sources
12	Expert Systems	Related Chapters of Course Sources
13	Machine Learning Algorithms	Related Chapters of Course Sources
14	Machine Learning Algorithms	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,

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	Yapay Zeka	Blay Whitby, İletişim Yayınları
2	Artificial Intelligence: A Modern Approach	Stuart Russell and Peter Norvig Prentice Hall, Englewood Cliffs, 1995
3		

ADDITIONAL LITERATURE		
No	Name of the book	Author's Name, Publishing House, Publication Year
1	Yapay Zeka ve Mühendislik Uygulamaları	Cemalettin Kubat, Pusula Yayıncılık ve İletişim, 2014
2	Paradigms of Artificial Intelligence Programming: Case Studies in Common Lisp An Imprint of Elsevier.	Peter Norvig, Morgan Kaufmann Publishers San Francisco, CA
3		

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 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.