Course	e Description Form							
Course Code and Name	5021329 Applied Artificial Intelligence							
Course Semester	Fall-Spring							
Catalog Content	Definition of artificial intelligence, basic concepts, techniques, applications							
Textbook	Yapay Zeka Uygulamaları, Prof. Dr. Çetin Elmas, Mart 2016 / 3. Baskı							
Supplementary Textbooks	Artificial Intelligence: A Modern Approach. Stuart Russell, Peter Norvig, Prentice Hall, Second Edition							
Credit	8							
Prerequisites of the Course (Attendance Requirements)	There is no prerequisite or co-requisite for this course.							
Type of the Course	Elective							
Instruction Language	Turkish							
Course Objectives	Teaching of principle and base of artificial intelligence which applied in engineering, Detailed analysis of how it is applied in engineering applications.							
Course Learning Outcomes	1-It will be able to produce both theoretical and practical solutions to problems that may be encountered in Artificial Intelligence. 2- It learns how to develop artificial intelligence applications.							
Instruction Methods	The mode of delivery of this course is face to face							
Weekly Schedule	1. Week Introduction 2. Week Intelligence, Artificial Intelligence, Artificial Intelligence techniques and basic principles 3. Week Learning strategies 4. Week Learning strategies 5. Week Problem solving and searching strategies 6. Week Principles 7. Week Artificial Intelligence Tools 8. Week Artificial Intelligence Tools 9. Week Knowledge representation, methods and techniques 10. Week Knowledge representation, methods and techniques 11. Week Problem-solving methods 12. Week Application examples of LISP and PROLOG 13. Week Project presentation 14. Week Project presentation							
Teaching and Learning Methods (These are examples. Please fill which activities you use in the course)	Weekly theoretical course hours Weekly tutorial hours Reading Activities Internet browsing, library work Designing and implementing materials Report preparing Preparing a Presentation Presentations Preparation of Midterm and Midterm Exam							
	Final Exam and Preparation for Final Exam Numbers Weighting (%)							
Assessment Criteria	Midterm Exams 30 Assignment 10 Application 20 Projects 40 Practice Quiz Percent of In-term 40 Studies (%) 40 Percentage of Final Exam to Total Score (%) 60 Attendance 40							

		Activity	Total Number of Weeks	Duration (weekly hour)	n			To Per Wo	iod ork
Workload	Weekly Theoretical Course Hours		14				3	Lo	42
		ly Tutorial Hours	3				3		9
	Reading Tasks		14				3		42
	Studies		14				3		42
	Material Design and		5				5		25
	Implementation Report Preparing		1				7		7
	Preparing a Presentation		1				5		5
		Presentations					3		3
	Midterm Exam and Preperation for Midterm Exam		1			1	.0		10
	Final	Exam and Preperation	1			1	.5		15
		nal Exam (should be					+		
		asized)							
	Total	Workload							200
		Workload / 25							8
	Cours	e Credit (ECTS)						1	8
Contribution Level Between Course Learning Outcomes and Program Outcomes	No	Program Outcomes		1	1	2	3	4	5
	1	Reaches the expansion conducting scientific re of engineering interpretation and information.	esearch in th	ne field uation,				X	
	2	Has extensive and in including the latest te applied and their engineering.	chniques, n	nethods				X	
	3	Completes and applies I scientific methods by missing data and inte from different disciplin	using limitegrates infor	ited or				X	
	4	Be aware of new and d of the profession, ex- when needed.						X	
	5	Defines and formulates the field, develops met and applies innovat solutions.	hods to solv	e them				X	
	6	Develops new and / or methods, designs cor processes and devel alternative solutions in	nplex syste ops innova	ms or tive /				X	
	7	Designs and apprexperimental and researches, examines complex problems errocess.	modeling and solve				X		
	8	Works effectively in multidisciplinary teams and develops solution complex situations, we and takes responsibility	s, leads such on approach orks indepen	teams nes in			X		

	9	Communicates oral and written using a foreign language at least at the level of European Language Portfolio B2.	X
	10	Conveys the process and results of the studies in written and oral form in a systematic and clear manner in national and international environments within or outside the field.	X
	11	Knows the social, environmental, health, security, legal aspects of engineering applications; project management, and business life applications and be aware of the constraints of these engineering applications.	X
	12	Considers social, scientific and ethical values in the stages of data collection, interpretation and announcement and in all professional activities.	X
The Course's Lecturer(s) and Contact Informations		, Surname: Prof.Dr.Şeref SAĞIROĞLU l address: ss@gazi.edu.tr	