Cours	e Description Form								
Course Code and Name	5281329 Web Mining								
Course Semester	Fall-Spring								
Catalog Content	Data mining association rules, supervised and un supervised learning approaches, information retrieval, web mining web search, link analysis and web crawling. Web Data Mining: Exploring Hyperlinks, Contents, and Usage								
Textbook	Data, Bing Liu, Springer, 2011.								
Supplementary Textbooks	-								
Credit	8								
Prerequisites of the Course	_								
(Attendance Requirements)									
Type of the Course	Technical Elective								
Instruction Language	Turkish								
Course Objectives	Students who successfully complete this course: Will be able to produce both theoretical and practical solutions to the problems that may be encountered in data mining. Will learn how to develop web mining applications.								
Course Learning Outcomes	Learning data mining and web mining Learning connection rules Learning supervised and unsupervised learning concepts Learning information extraction Learning web search concept Learning link analysis Learning web crawling								
Instruction Methods	The mode of delivery of this course is face to face								
Weekly Schedule	<ol> <li>Week: Data mining and Web mining</li> <li>Week: Association rules</li> <li>Week: Ordered patterns</li> <li>Week: Supervised learning</li> <li>Week: Classification using supervised learning</li> <li>Week: Unsupervised learning</li> <li>Week: Clustering using unsupervised learning</li> <li>Week: Information retrieval</li> <li>Week: Information retrieval</li> <li>Week: Web search</li> <li>Week: Link analysis</li> <li>Week: Link analysis</li> <li>Week: Web crawling</li> </ol>								
<b>Teaching and Learning Methods</b> ( <i>These are examples. Please fill which activities you use in the course</i> )	Weekly Theoretical Course Hours Reading Tasks Studies Report Preparing Preparing a Presentation Presentations Midterm Exam and Preparation for Midterm Exam Final Exam and Preparation for Final Exam								
Assessment Criteria	NumbersTotal Weighting (%)Midterm Exams135								
	Assignment625ApplicationProjectsPracticeQuizPercent of In-term60								
	Studies (%)     60       Percentage of Final     40								

		n to Total Score (%)						
	Atter	ndance Activity	Total Number of Weeks	Duratio (weekly hour)			Tot Peri Wo Loa	iod rk
Workload	Week Hours	ly Theoretical Course	14			3		42
		y Tutorial Hours						
	Reading Tasks		13	3 3		3	42	
	Studies		14	1		1		14
	Material Design and Implementation		1	20		0	20	
		Report Preparing		3 4		4		32
	Preparing a Presentation		1	. 8		8	8	
	Preser	ntations	1			4		4
	Preper Exam		1		1	5		15
	for Fi	Exam and Preperation nal Exam ( should be	1		2	0		20
	empha	asized)						105
		Workload				+		197
		Workload / 25						7.88
	h	e Credit (ECTS)			1 2			
Contribution Level Between Course Learning Outcomes and Program Outcomes	No 1	Program Outcomes Reaches the expansion of knowledge by conducting scientific research in the field of engineering and evaluation,				3		5 X
	2	interpretation and information. Has extensive and in including the latest to applied and their engineering.	n depth kn echniques,	owledge methods				x
	3	Completes and appl using scientific m limited or missing of	applies knowledge by c methods by using sing data and integrates m different disciplines.				x	
	4	Be aware of new and developing practices of the profession, examines and learns when needed.						x
	5	Defines and formulat to the field, develop them and applies inn solutions.	s methods	to solve			X	
	6	Develops new and / c methods, designs cc processes and deve alternative solutions i	omplex sys clops innov	tems or vative /			X	
	7	Designs and ap experimental and researches, examine complex problems e process.	modeling s and sol	ves the				X

	8	Works effectively in disciplinary and multidisciplinary teams, leads such teams and develops solution approaches in complex situations, works independently and takes responsibility.		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.			Х
	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.			
	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		e Surname: Prof. Dr. M. Ali AKCAYOL il address: akcayol@gazi.edu.tr			