	COURSE DESC	RIPTION FO	DRM				
Course Code and Name	BM473 INTRODUCTION TELECT.)	ΓΟ WIRELES	S AND MOBILE NETWORKS (TECH.				
Course Semester	7						
Catalogue Data of the Course (Course Content)	General information on wireless communication technologies, mobile network architectures, and future network technologies.						
Course Textbooks	Stallings, W., "Wireless Communications & Networks (2nd Edition)", Prentice Hall, 2004.						
Supplementary Textbooks	Schiller, J., "Mobile Communications Second Edition", Addison Wesley, 2003. T.S. Rappaport, "Wireless Communications: Principles & Practice", Second Edition, Prentice Hall, 2002. Mischa Schwartz, "Mobile Wireless Communications", Cambridge University Press, 2005. Andrea Goldsmith, "Wireless Communications", Cambridge University Press, 2005.						
Credit (ECTS)	6						
Prerequisites for the Course (Attendance Requirements)	-						
Course Type	Elective						
Language of Instruction	Turkish						
Course Objectives	understand topics such as	cellular netwo	concepts of wireless and mobile networks, orks and mobile network architectures, gain andards used in these areas, and acquire ication technologies.				
Course Learning Outcomes	authentication. 4.Gains knowledge about networks.	llular and mob such as wi protocols an					
Instruction Method (Face-to-face, Distance education etc.)	Face-to-face.	<i>S</i>					
Weekly Schedule of the Course	Week 1: Introduction to Wire Week 2: Challenges in Wire Week 3: Fundamentals of Week 4: Antennas Week 5: Modulation Techni Week 6: Spread Spectrum Week 7: Error Control Meck Week 8: Introduction to Cell Week 9: GSM Technology Week 10: CDMA, 802.11 Week 11: Bluetooth, Mobile Week 12: Introduction to Week 13: Introduction to the Week 14: Communication P	less Network of Treless Commiques nanisms lular Networks TP ireless Sensor Totocols of Internet of Trentocols of Internet of I	Communication unication S Networks nings				
Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)	Weekly theoretical course he Reading activities Internet search and library w Making a report Preparing and making present Midterm and revision for mit Final exam and revision for	ork ntations dterm					
Assessment Criteria		Number(s)	Weight (%)				

Midterm exam 1	30						
Assignment							
Application							
Project 1	30						
Practice							
Quiz							
	40						
Total 3	100						
Activity	Number of Weeks	Duration (Weekly Hour)		End of Semester Total Workload			
Weekly theoretical course hours 14		3	42		2		
Weekly practical course hours							
Reading activities 14		2		28	3		
Internet search and library work 14		2		28			
Designing and implementing	<u>'</u>			 _	,		
Workload of the Course materials							
Making a report 1		10		10)		
Preparing and making presentations 1		10		10			
				-			
		20		20			
Final exam and revision for final		20		20			
Total workload				1.5			
				15	U		
Total workload/ 25				6			
Course Credit (ECTS)				6			
Contribution Level No Program Outcom	mes	1	1 /	2	3	4	5
between Course Outcomes Knowledge of mathematics, s							
	engineering, computing, and computer					X	
engineering; ability to use thi	engineering; ability to use this knowledge in					21	
	solving complex engineering problems.						
	Ability to define, formulate and analyze						
	complex engineering problems using basic science, mathematics and engineering						
	knowledge and considering the UN Sustainable Development Goals relevant to			X			
the problems addressed.							
Ability to design creative solu	utions to						
	complex engineering problems; ability to design complex systems, processes, devices, software, algorithms or products to meet						
					X		
software, algorithms or produ							
current and future requiremen		ıg					
	realistic constraints and conditions. Ability to select, use and develop appropriate						
	techniques, resources and modern engineering and informatics tools, including estimation and modeling, for the analysis and solution of complex engineering problems						
engineering and informatics t						,	
						$\mid X \mid$	
while being aware of their lin							
Ability to use research metho							
	complex engineering problems or research						
	in computer engineering, including					\ _v	
	reviewing the literature, designing experiments, conducting experiments, collecting data, analyzing and interpreting					X	
results.	a marprening						
6 Knowledge of the effects of e				+			
	engineering		1	- 1			
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	7	within the scope of the UN Sustainable Development Goals; awareness of the consequences of engineering solutions in the fields of information security and law. Acting in accordance with engineering professional principles and knowledge on ethical responsibility; awareness of acting impartially, without discrimination on any issue, and being inclusive of diversity.			X	
	8	Ability to work effectively individually and as a team member or leader in intradisciplinary and multidisciplinary teams (face-to-face, remote, or hybrid).			X	
	9	Ability to conduct effective verbal and written communication on technical issues in Turkish or English, prepare reports, make effective presentations and prepare software documentation, considering the various differences of the target audience (such as education, language, profession).				X
	10	Knowledge of business practices such as project, risk and change management and economic feasibility analysis; awareness of entrepreneurship and innovation.		X		
	11	Lifelong learning skill that includes the ability to learn independently and continuously, to adapt to new and developing scientific practices and technologies, and to think inquisitively about technological changes.			X	
Lecturer(s) and Contact Information		rst/Last Name: Asst. Prof. Dr. Feyza YILDIRIM ss: feyzaokay@gazi.edu.tr	I OK	AY		