Course Description Form								
Course Code and Name	5101329 Mobile And Wireless Networks							
Course Semester	Fall - Spring							
	Principles of wireless networks, physical properties, TCP / IP							
Catalog Content	communication protocol	, wireless n	etwork technol	logies and				
	methods of establishing wireless networks.							
Textbook	Stallings, W., "Wireles	s Communica	tions & Netw	vorks (2nd				
	Edition)", Prentice Hall, 2	004.						
Supplementary Textbooks	-							
Credit Prorequisites of the Course	o Thora is no proroquisite or	: co roquisito f	or this course					
(Attendance Requirements)	There is no prerequisite or co-requisite for this course							
Type of the Course	Flective							
Instruction Language	Turkish							
	1 To provide information about fundamental wireless technologies							
	2. Comparing wireless technologies and knowing which							
Course Objectives	technologies and environments should be preferred							
U U	3. Having knowledge about cellular network setup and operation							
	concept							
Course Learning Outcomes	1. Learning wireless trans	smission funda	mentals					
	2. Learning fundamental techniques in design of second generation							
	wireless networks							
	3. Learning cellular network and protocols, access techniques							
Tracture officer Matheada	4. Learning signaling and mobility management							
	1 Introduction	ins course is ra	ice to face.					
	2 Fundamentals of Comm	unication						
	3 Fundamentals of Comm	unication						
	4 Antennas	luneution						
	5. Encoding							
	6. Encoding							
Waakhy Sahadula	7. Spread Spectrum							
weekly Schedule	8. Error Control							
	9. Error Control							
	10. Cellular Networks							
	11. Cellular Networks							
	12. GSM							
	13. GSM Security							
	Weekly theoretical course	hours:3						
Teaching and Learning Methods	Reading Activities:2							
	Internet browsing, library work:1							
(These are examples. Please fill which activities	Preparing report:5							
you use in the course)	Preparing presentation:5							
	Preparation of Midterm and Midterm Exam:15							
	Final Exam and Preparation for Final Exam:20							
		Numbers	Total					
			weighting					
	Midterm Exams	1	(70)					
	Assignment	5	20					
Assessment Criteria	Application	0	0					
	Projects	1	20					
	Practice	0	0					
	Quiz	0	0					
	Percent of In-term	0	60					
	Studies (%)							
	Percentage of Final	0	40					
	Exam to Total Score							
	(%)							

	Attendance		-	-				
		ity	Total Numbe r of Weeks	Duratio n (weekly hour)			Tota Peri d Wor Loa	ıl o k d
Workload	Weel Cour Hour	cly Theoretical se	14		3			42
	Weel	sly Tutorial Hours	0		0			0
	Reading Tasks		15		2			30
	Studies		13		3			39
	Material Design and Implementation		0		0			0
	Report Preparing		5	8		40		40
, or mout	Preparing a Presentation		1	9		9		9
	Prese	entations	0		20			20
	Prepa	aration for	1		20			20
	Midt	erm Exam	1		20			20
	Final Prepa	exam and aration for Final	1		20			20
	Other	r (0		0			0
	shoul	d be						
	Total	Workload					4	200
	Total	Workload / 25						8
	Cour	se Credit (ECTS)						8
Contribution Level Between Course Learning Outcomes and Program Outcomes	No	Program Outcomes			1 2	3	4	5
	1	Reaches the expans conducting scientifi- of engineering interpretation and information.	ion of know c research in and ev d applicat	vledge by the field valuation, ion of			x	
	2	Has extensive and including the latest applied and the engineering.	in depth knowledge techniques, methods eir limitations in				x	
	3	Completes and applies knowledge by using scientific methods by using limited or missing data and integrates information from different disciplines.			х			
	4	Be aware of new and developing practices of the profession, examines and learns when needed.				x		
	5	Defines and formul to the field, develo them and applies in solutions.	ates problem ops methods nnovative me	ns related to solve ethods in		х		
	6	Develops new and / methods, designs processes and de alternative solutions	f or original is complex system velops inno s in their desi	ideas and stems or wative / gns.		x		

	7	Designs and applies theoretical, experimental and modeling based researches, examines and solves the complex problems encountered in this process.		Х		
	8	Works effectively in disciplinary and multidisciplinary teams, leads such teams and develops solution approaches in complex situations, works independently and takes responsibility.		x		
		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 ^X 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 Information	Computer Engineering Department Chair E-mail address: bmbb@gazi.edu.tr					