Course Description Form						
	CENG473 INTRODUCTION TO WIRELESS AND MOBILE					
Course Code and Name	NETWORKS (TECH.ELECT.)					
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Course Semester	7					
	Wireless and mobile networks					
Catalog Content						
Total	Stallings, W., "Wireless Communications & Networks (2nd Edition)",					
Textbook	Prentice Hall, 2004.					
	Schiller, J., "Mobile Communications Second Edition", Addison Wesley,					
Supplementary Textbooks	2003.					
	T.S. Rappaport, ``Wireless Communications: Principles & Practice",					
	Second Edition, Prentice Hall, 2002.					
	Second Edition, Frontice Hair, 2002.					
	Mischa Schwartz, ``Mobile Wireless Communications'', Cambridge					
	University Press, 2005.					
	Andrea Goldsmith, "Wireless Communications", Cambridge University					
	Press, 2005.					
Cualit	6					
Credit						
Prerequisites of the Course (Attendance Requirements)						
Type of the Course	Elective					
Instruction Language	English					
Course Objectives	Teaching fundamentals of wireless network technologies, wireless					
Course Objectives	network design principals analysis					
	At the end of the course, the students will have basic knowledge about;					
	1) Understanding of fundamental wireless network protocols					
Course Learning Outcomes	2) Be able to design a GSM network3) Be able to do network performance analysis					
	5) Be able to do network performance analysis					
Instruction Methods	The mode of delivery of this course is Face to face					
ansa action methods						

Weekly Schedule	1. Week: Wireless and mobile network fundamentals 2. Week: Problem solving 3. Week: Wireless medium access 4. Week: Architectures and protocols 5. Week: GSM/GPRS 6. Week: CDMA 7. Week: 802.11 8. Week: Bluetooth 9. Week: 3G,NG 10. Week: Mobile IP 11. Week: Mobile transport layer 12. Week: Mobile application development 13. Week: Mobile application development 14. Week: Mobile application development					
Teaching and Learning Methods (These are examples. Please fill which activities you use in the course)	Weekly theoretical course hours: 3 Internet browsing, library work Report Preparing Preparing a Presentation Presentations Preparation of Midterm and Midterm Exam Final Exam and Preparation for Final Exam					
		Numbers	Total Weighting			
			(%)			
	Midterm Exams	1	30	ĺ		
	Assignment	5	10	_		
	Application Projects	1	20	_		
Assessment Criteria	Practice	1	20	-		
	Quiz			1		
	Percent of In-term		60	1		
	Studies (%)					
	Percentage of Final Exam to Total Score (%)		40			
	Attendance			-		
	Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load		
	Weekly Theoretical Course Hours	14	3	42		
	Weekly Tutorial Hours					
	Reading Tasks					
	Studies	9	3	27		
	Material Design and Implementation					
	Report Preparing	3	10	30		
Workload	Preparing a Presentation	2	10	20		
	Presentations	2	10	20		
	Midterm Exam and Preparation for Midterm Exam	1	5	5		
	Final Exam and Preparation for Final Exam Other (should be	1	6	6		
	emphasized)					

	Total	Workload / 25				6		
		se Credit (ECTS)				6		
	No	Program Outcomes	1	1	1 2	3	4	5
	1	Sufficient knowledge on r and computer engineering theoretical and practical k areas to model and solve of	; ability to apply nowledge in the	se se			X	
Contribution Level Between Course Learning Outcomes and Program Outcomes	2	Ability to identify, define, complex engineering prob choose and apply appropr modelling methods for the	lems; ability to iate analysis and					X
	3	Ability to design a comple device, software, algorithmatic constraints and ci- certain requirements; abili- design techniques for this	m, or product un reumstances to ty to apply mod	der meet		X		
	4	Ability to choose, develop techniques and tools nece applications; ability to effi- computing technologies	and use modern ssary for enginee				X	
	5	Ability to design and implexperiments to solve engine collect and interpret data to analyze the results of solu	neering problem to evaluate and				X	
	6	Ability to work effectively and interdisciplinary team	y in intradiscipli	-	-			
	7	Ability to efficiently preparent reports				X		
	8	Ability to make presentati effective verbal and writte Turkish and English				X		
	9	Awareness of the necessit learning; ability to access scientific and technologic ability to perpetually rene	information, fol al developments		X			
	10	Awareness of professiona responsibility, ability to acethical principles		with			X	
	11	Ability to apply knowledg management, risk manage management		e		X		
	12	Awareness of entrepreneu innovation, ability to design	-	X	-			
	13	Ability to devise local and contemporary issues cons- engineering applications of environment and security	idering the effec					
	14	Awareness of the legal co	nsequences of	X	-			
	15	Ability to apply knowledg development process and		rules	X			
	16	Knowledge on standards unapplications					X	
	17	Awareness of occupational information security and p		urity,X				
The Course's Lecturer(s) and Contact Informations		Prof. Dr. Suat OZDE! suatozdemir@gazi.ed						