Course	Course Description Form					
Course Code and Name	CENG464 MULTIMEDIA SYSTEMS (TECH.ELECT.)					
Course Semester	8					
Catalog Content	Architectures for multimedia systems, digital audio, image technology and image compression, computer graphics, multimedia information systems, multimedia communication systems, structure of the Internet, the methods of data storage and data access on the Internet.					
Textbook	Multimedia Networks: Protocols, Design and Applications, Hans W. Barz, Gregory A. Bassett, Wiley, 2016.					
Supplementary Textbooks	 Fundamentals of Multimedia, Ze-Nian Li and Mark S. Drew, Prentice-Hall, 2003. Multimedia Systems and Techniques, Furth Borko, Springer, 1996. 					
Credit	6					
Prerequisites of the Course (Attendance Requirements)	-					
Type of the Course	Technical Elective					
Instruction Language	English					
Course Objectives	To provide knowledge about architectures for multimedia systems, digital audio, image technology and image compression, computer graphics, multimedia information systems, multimedia communication systems, structure of the Internet, the methods of data storage and data access on the Internet.					
Course Learning Outcomes	Students who successfully complete this course have knowledge on the following topics: Architectures for multimedia systems, digital audio, image technology and image compression, computer graphics, multimedia information systems, multimedia communication systems, structure of the Internet, the methods of data storage and data access on the Internet.					
Instruction Methods	The mode of delivery of this cours	se is face to	o face			
Weekly Schedule	1.Week: Architectures for multimedia systems 2.Week: Architectures for multimedia systems 3.Week: Digital audio 4.Week: Image technology 5.Week: Image compression 6.Week: Computer Graphics 7.Week: Multimedia information systems 8.Week: Multimedia communication systems 9.Week: Multimedia communication systems 10.Week: Structure of the Internet 11.Week: Data storage on the Internet 12.Week: Data storage on the Internet 13.Week: Data access 14.Week: Data access methods					
Teaching and Learning Methods (These are examples. Please fill which activities you use in the course)	Weekly theoretical course hours: 3 Reading Activities Internet browsing, library work Preparation of Midterm and Midterm Exam Final Exam and Preparation for Final Exam					
Assessment Criteria		1 5 0 0	Total Weighting (%) 50 10 0			

	Practice	0 0							
	Quiz			0					
	Percent of In-term Studies (%)		60)					
	Percentage of Final		40)					
	Exam to Total Score (%)		40						
	Activity	Total Number	Duration (weekly hour)			Total Period Work Load			
	Retivity	of Weeks							
	Weekly Theoretical Course Hours	14	3	3			42		
	Weekly Tutorial Hours	0	0			0)		
	Reading Tasks	14	3			42			
	Studies	14	3			42	2		
	Material Design and Implementation	0	0	0		0			
	Report Preparing	0	0			0			
Workload	Preparing a Presentation	0	0			0)		
	Presentations	0	0			0)		
	Midterm Exam and Preparation for Midterm Exam	1	12	2		12			
	Final Exam and Preparation for Final Exam	1	12	2	12		2		
	Other (should be emphasized)			0		0			
	Total Workload					15	150		
	Total Workload / 25					6			
	Course Credit (ECTS)					6			
Contribution Level Between Course Learning Outcomes and Program Outcomes	No Program C	Outcomes	utcomes 1 2			3 4	5		
	Sufficient knowledge on and computer engineerin theoretical and practical areas to model and solve	g; ability to ap knowledge in t	pply these			X			
	Ability to identify, define complex engineering prochoose and apply appropmodelling methods for the	blems; ability riate analysis a	to			X			
	Ability to design a comp device, software, algorith 3 realistic constraints and o certain requirements; abi design techniques for thi	lex system, process, nm, or product under circumstances to meet lity to apply modern					Х		
	Ability to choose, develo	develop and use modern ols necessary for engineering by to effectively use					X		
	Ability to design and imperent to solve enguing collect and interpret data analyze the results of sol	ineering proble to evaluate an	ems,	y	ζ				
	Ability to work effective and interdisciplinary tear	ly in intradisci		3	ζ				
	Ability to efficiently prej interpret reports		-	ζ	1				

		Ability to make presentations and conduct					
		effective verbal and written communication in	X				
		Turkish and English					
		Awareness of the necessity of lifelong					
	9	learning; ability to access information, follow				X	
	9	scientific and technological developments;			1	Λ	
		ability to perpetually renew oneself					
	10	Awareness of professional and ethical					
		responsibility, ability to act in accordance with				X	
		ethical principles					
		Ability to apply knowledge on project	\neg				
	11	management, risk management and change		X			
		management					
		Awareness of entrepreneurship and	\dashv	\dashv			
	12	innovation, ability to design and build			X		
		Ability to devise local and global solutions to	1	-			
		contemporary issues considering the effects of					
	13	engineering applications on health,			X		
		environment and security					
		Awareness of the legal consequences of	\dashv				
	engineering solutions			X			
		Ability to apply knowledge on software	1	-			
	15	development process and documentation rules			X		
		Knowledge on standards used in engineering	\dashv	-			
	16	applications				X	
		Awareness of occupational health and security,	+	+			
	17	information security and privacy		X			
	II	and privacy					
The Course of Leaders (A) and Courtes (
The Course's Lecturer(s) and Contact Prof. Dr. M. Ali AKCAYOL							
Information	akcayol@gazi.edu.tr						