Course Description Form					
Course Code and Name	BM224 PROGRAMMING LANGUAGES				
Course Semester	4				
Catalog Content	Conceptual study on syntax, semantics and application of programming languages, Lambda analysis and functional languages, basic notions of expressive semantics and language features, the theory of autocorrelation, first order logic and declarative languages, harmonization of semantic definitions.				
Textbook	Sebesta, R. W., & Mukherjee, S. (2015). Concepts of programming languages (Vol. 8). Addison-Wesley.				
Supplementary Textbooks	Darnell, P. A., & Margolis, P. E. (2012). Software engineering in C. Springer Science & Business Media.				
	Comparative Programming Languages (3rd Edition) by Robert G. Clark, 2000.				
Credit	6				
Prerequisites of the Course ( Attendance Requirements)	Prerequisites course: No Co-requisites: Obligatory course attendance 70%				
Type of the Course	Compulsory				
Instruction Language	Turkish				
Course Objectives	Teaching the design of programming languages and compare alternative designs by approaching from different angles.  To increase the familiarity to different programming languages. by examining the various examples of different programming languages.				
Course Learning Outcomes	Defining of programming languages syntax, their meanings and usage Formal syntactic representation, expression structure, postfix and infix representation and conversion Data types and variables, expression and assignment statements, control structures and subroutines Functional and logical languages and programming Current programming languages key properties Program structures, procedures, functions and methods Inheritance and dynamic delimiters Matching, consistency and network structure Graphical user interfaces				
<b>Instruction Methods</b>	The mode of delivery of this course is face to face				

10. week: Inheritance and dynamic delimiters 11. week: Inheritance and dynamic delimiters 12. week: Matching, consistency and network structure 13. week: Graphical user interfaces 14. week: Graphical user interfaces  Weekly theoretical course hours: 3 Reading Searching in Internet and library Preparing presentation Presentation  (These are examples. Please fill which activities you use in the course)  Midterm and studying for midterm Final and studying for final
Numbers Total Weighting (%)
Midterm Exams 1 30
Assignment 0 0
Application 0 0
Assessment Criteria Projects 1 30
Practice 0 0
Quiz 0 0
Percent of In-term 60 Studies (%)
Percentage of Final 40
Exam to Total Score (%)
Attendance -

		Activity	Total Number of Weeks	Duratio (weekly hour)			P	Fota Perio Wor Loa	od rk
	Week	tly Theoretical Course	14	3			42		
		dy Tutorial Hours	0	0			0		
	Readi	ing Tasks	10	4			40		
	Studi		10	3			30		
Workload		rial Design and ementation	0	0			0		
		rt Preparing	0	0			0		
		ring a Presentation	1	12			12		
		ntations	1	1			1		
	Prepa	erm Exam and tration for erm Exam	1	10			10		
	Prepa Exam		1	15				15	
	be en	r ( should nphasized)						0	
	<b>I</b>	Workload					<u> </u>	150	)
	II <del> </del>	Workload / 25				6			
	Course Credit (ECTS)					1		6	ı
Contribution Level Between Course Learning Outcomes and Program Outcomes	No	Program Outcomes Sufficient knowledge		-4:	1	2 X	3	4	5
		science and computer to apply theoretical arknowledge in these ar solve engineering pro	engineering nd practical eas to mode	; ability		Λ			
	2	Ability to identify, de solve complex engine ability to choose and a analysis and modellin purposes	fine, formula ering proble apply approp	ms; priate			X		
	3	Ability to design a corprocess, device, softw product under realistic circumstances to meet requirements; ability the design techniques for	rare, algorithe constraints t certain to apply mode	nm, or and dern				X	
	4	Ability to choose, dev techniques and tools r engineering application effectively use compu	relop and use necessary for ons; ability to	e modern					X
	5	Ability to design and or experiments to solv problems, collect and evaluate and analyze to solutions  Ability to work effect.	re engineering interpret date the results of	ng ta to		X	X		
	6	Ability to work effect intradisciplinary and i teams or individually	-	nary		Λ			

The Course's Lecturer(s) and Contact Information	Computer Engineering Department Chair bmbb@gazi.edu.tr						
	17		X				
	16	Knowledge on standards used in engineering applications				X	
	15	Ability to apply knowledge on software development process and documentation rules			X		
	14	Awareness of the legal consequences of engineering solutions	X				
	13	Ability to devise local and global solutions to contemporary issues considering the effects of engineering applications on health, environment and security			X		
	12	Awareness of entrepreneurship and innovation, ability to design and build sustainable systems		X			
	11	Ability to apply knowledge on project management, risk management and change management			X		
	10	Awareness of professional and ethical responsibility, ability to act in accordance with ethical principles		X			
	9	Awareness of the necessity of lifelong learning; ability to access information, follow scientific and technological developments; ability to perpetually renew oneself				X	
	8	Ability to make presentations and conduct effective verbal and written communication in Turkish and English		X			
	7	Ability to efficiently prepare, evaluate and interpret reports		X			