Course Description Form					
Course Code and Name	BM101 COMPUTER PROGRAMMING I				
Course Semester	1				
Catalog Content	Algorithm development and flow diagrams, Basic concepts of programming, define variables, data types, assignment statements, transactions, decision-making structures, loops, functions, paramet transfer methods, pointers, arrays and user-defined data types.				
Textbook	C: How to Program, 7th Edition by Paul Deitel, Harvey Deitel, 2012.				
Supplementary Textbooks	C Programming Language, 2nd Edition by Brian W. Kernighan, Dennis M. Ritchie, 1988. Programming in C (Developer's Library) 4th Edition by Stephen G. Kochan, 2014.				
Credit	5				
Prerequisites of the Course (Attendance Requirements)	There is no prerequisite or co-requisite for this course.				
Type of the Course	Compulsory				
Instruction Language	Turkish				
Course Objectives	To be able to recognize descriptions and structures related with algorithm and programming and to be able to use them in programs				
Course Learning Outcomes	 Learning the basic Algorithm Design and programming concepts Solving basic problems by using C. Trace the program code and perform debugging 				
Instruction Methods	The mode of delivery of this course is Face to face				
Weekly Schedule	 Week Problem solving Week Algorithm development and flow diagrams Week Programming basics concepts Week Variables, data types Week Assignment statements, transactions Week Decision-making structures Week Loops Week Loops Week Functions, parameter transfer methods Week Functions, parameter transfer methods Week Pointers Week Arrays Week Two-dimensional arrays Week User-defined data types, Structures 				
Teaching and Learning Methods (These are examples. Please fill which activities you use in the course)	Weekly theoretical course hours: 2 Weekly tutorial hours: 2 Reading Activities Internet browsing, library work Designing and implementing materials Preparation of Midterm and Midterm Exam Final Exam and Preparation for Final Exam				

		Numbers	Total Weighting (%)
	Midterm Exams	1	20
	Assignment	4	10
	Application	12	20
Aggaggment Cuitoria	Projects	1	10
Assessment Criteria	Practice		
	Quiz		
	Percent of In-term		60
	Studies (%)		
	Percentage of Final		40
	Exam to Total Score (%)		
	Attendance		

		Activity		Duration (weekly hour)			Total Period Work Load		
Workload		Weekly Theoretical Course		2			2		au
	Hour Weel	s dy Tutorial Hours	14	2			2	8	
		Reading Tasks		1			14		
		Studies		1			1		
		Material Design and		1			14		
		Implementation Report Preparing					0		
		Preparing a Presentation					0		
		Presentations					0		
		Midterm Exam and		14			1	4	
	Prepa Exan	Preparation for Midterm Exam							
	Final	Exam and Preparation	1	14			1	4	
		for Final Exam Other (should be					0		
	emph	asized)							
		Workload						26	
		Workload / 25						.04	
	Cour	se Credit (ECTS)			ı	1	5	_	
Contribution Level Between Course Learning Outcomes and Program Outcomes	No	Program Outcomes			1	2	3	4	5
	1	Sufficient knowledge on and computer engineering theoretical and practical lareas to model and solve	g; ability to ap knowledge in t	ply these				X	
	2	Ability to identify, define complex engineering prochoose and apply approprint modelling methods for the	ne, formulate and solve coblems; ability to opriate analysis and				X		
	3	Ability to design a compl device, software, algorith realistic constraints and c certain requirements; abil design techniques for this	ex system, pro m, or product fircumstances lity to apply m	under to meet			X		
	4	Ability to choose, develo techniques and tools nece applications; ability to eff computing technologies	p and use mod essary for engi				X		
	5	Ability to design and impexperiments to solve engicollect and interpret data	ineering probl to evaluate an	ems,			X		
	6	analyze the results of solu Ability to work effectivel	y in intradisci	-	X		 		
	7	and interdisciplinary tean Ability to efficiently prep		•			1	X	
	8	interpret reports Ability to make presentat effective verbal and writt			X				
	9	Turkish and English Awareness of the necessi learning; ability to access	information,				X		
	10	scientific and technologic ability to perpetually rene Awareness of professiona	ew oneself	nts;		X	<u> </u>	_	
	10	responsibility, ability to a ethical principles		nce with		Λ			

	11	Ability to apply knowledge on project management, risk management and change management	X	
	12	Awareness of entrepreneurship and innovation, ability to design and build sustainable systems	X	
	13	Ability to devise local and global solutions to contemporary issues considering the effects of engineering applications on health, environment and security	X	
	14	Awareness of the legal consequences of engineering solutions	X	
	15	Ability to apply knowledge on software development process and documentation rules	X	
	16	Knowledge on standards used in engineering applications	X	
	17	Awareness of occupational health and security, information security and privacy	X	
The Course's Lecturer(s) and Contact Information		Lecturer Dr. Oktay YILDIZ oyildiz@gazi.edu.tr		