

	Course name: CENG 116 Computer Programming II		Department: Electrical and Electronics Engineering			Semester 2
	Methods of Education					Credit (ECTS)
	Lecture	Study Time	Quiz	Project	Exam (incl. Prep.)	Total
	42	78	0	0	60	180
Language	English					
Compulsory/Elective	Compulsory					
Prerequisites	None					
Course Contents	The purpose of this course for students is to develop effective programs with using visual programming, file operations and basic graphic operations.					
Course Objective	Bitwise Operations, Pointers, Sorting and Search Algorithms, File operations, Lists, Introduction to Visual Programming, Components, Class and object concepts, Event handling, Basic graphic operation in visual programming languages.					
Learning Outcomes and Competences	<ul style="list-style-type: none"> – Use different application areas such as the properties of the C programming language. – Develop algorithm design and program writing – Define concepts in the design of visual programming languages – Develop new programming languages by using knowledge and experience. 					
Textbook and /or References	Main Textbooks: 1. Kernighan, Brian W., and Dennis M. Ritchie. The C programming language. 2006. 2. Deitel&Deitel, (1991), "C How to Program", Prentice Hall. 3. Bjarne Stroustrup, (1997), "The C++ Programming Language", Addison-Wesley Pub.					
Assessment Criteria				If any, mark as (X)		Percentage (%)
	Midterm Exams			X		30
	Quizzes					
	Homework					
	Projects					
	Laboratory work			X		20
	Other					
Final Exam			X		50	
Instructors						
Weekly Schedule						
Week	Subject					
1	Bitwise Operations					
2	Bitwise Operations					
3	Pointers					
4	Sorting and Search Algorithms					
5	File Operations					
6	File Operations					
7	Lists					
8	Lists					
9	Mid-term Exam					
10	Introduction to Visual Programming					
11	Components					
12	Class and Object Concepts					
13	Event Handling					
14	Basic Graphic Operation in Programming Languages					
15	General Overview					