	gramming Languages II Teaching Plan
Course Name	Programming Languages II
Course Code	CIT 204
Course Type	Compulsory course
Course Level	Undergraduate
AKTS Credit	6 ECTS
Course hours per week (Institutional)	3
Practice hours per week	-
Laboratory hours per week	2
Academic Year	2010-2011
Academic Semester	Spring
Course coordinator(s)	
Instruction system	
Medium language	English
Prerequisite	CIT 203 – Programming Languages I
Suggestions related to course	Basic knowledge and experience in C/C++ is required
Training required	N/A
Aim of the course	The major goals of this course are the followings:
	1. Teach the principles of computer program design.
	2. Developing and understanding computer programs,
	with particular reference to the visual and object
	oriented programming paradigm.
	3. Developing education applications in windows
	environment
	4. Solving real-time programming problems in visual
	programming.
Learning outcomes	At the end of this course students should,
	1. Describe the main reasons about why it is better to code
	in an object-oriented way rather than a structured
	procedural way in computer programming.
	2. Describe differences between console and visual
	programming
	3. Understand the processing and iterations on collections
	of data.
	4. Explain the reasons why a programming language needs
	pointer and string data types.
	5. Process and iterate operations on sequence of
	characters and long sets of complex data types.
	6. Access, store, read and write text files through a
	programming language.
	7. Learn to create and solve problems with using their own
	<ul><li>user defined data types and structures.</li><li>8. Design visual programming interfaces and validate data in</li></ul>
	windows form applications.
	9. Understanding of control form elements and its usage in
	windows form applications.
	10. Saving, deleting and updating data in visual
	programming.
Course Content	- p. op. annum.p.
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## CIT 204 – Programming Languages II Teaching Plan

	Week	Topics									
	Week	Theory	Practice								
Course content per week	1	Review of Programming									
		Languages I (variables,									
		operations, loops, decision	Review Exercises								
		making functions, library	Neview Exercises								
		functions)									
	2										
		User defined functions and	Function and library function								
		system functions in	exercises								
		programming									
	3	Arrays and collections in	array exercises								
		programming	array exercises multi-dimensional array								
	4	Multi-Dimensional arrays									
		and collections	exercises								
	5	String data type and string	string and string operations								
		operations									
	6	Windows Form	Basic functionalities of Visual								
		Applications (differences	Studio and visual programming								
		between visual and									
		structured programming)									
	7	Midterm exam									
	8	Designing programs with	Using messageBox, textBox,								
		GUI. (Programming Project)	labels and comboBox in								
			Windows form applications								
	9	Designing programs with	Using checkBox and								
		GUI.	radioButton, checkListBox and								
			listBox in Windows form								
			applications								
	10	Designing programs with	Using listview and database								
		database connections	connections in Windows form								
			applications								
	11	Designing programs with	Using dataGridView and								
		database connections using	database connections in								
		functions	Windows form applications								
	12	Programming project presen	tation								
	13	Quiz	Quiz solution								
		Review									
	14		-								
	15	Final exam									
Course book and	Course be	ook:									
references :	Beginning Visual C++, Ivor Horton, (March, 2008).										
	References:										
		C How to program, Dr. Harvey Deitel, Prentice Hall, 5th Edition (January 2005).									
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Labs, pop quizzes and Attendance:	10%	
Project:	25%	
Midterm exam:	25%	
Final exam:	40%	
Semester Activities	Number	Contribution percentage to course mark %
Midterm Exam	1	25
Project	1	25
Final Exam	1	40
Quiz	1	5
Lab work & Attendance	-	5
TOTAL		100

Activities	Number	Duration (hour)	Total Workload(hour)				
Hours per week (theoretical)	14	3	42				
Hours per week (Application)	14	2	28				
Weekly study for lectures	14	3	42				
Term Project	4	5	20				
Quiz Preparation for quiz	4. week 8. week	8	16				
Supervision a) Midterm Examination b)Self-study for exam	1 1	1 18	19				
Final Exam a) Exam b) Test for individual studies	1 1	1 18	19				
	TOTAL WOR	KLOAD (hour)=	-186				

Learning outcomes (LO)	Programme Output (PO)																
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PO 16	PO 17
LO1	3		3	5					2	5	3	2					
LO2	3		3	4					2	5	3	2					
LO3	3		4	4					2	5	3	2					
LO4	3		4	4					2	5	3	2					
LO5	3		4	4					2	5	3	2					
LO6	3		5	5					2	5	3	5					
L07	3		5	5					2	5	3	5					
LO8	3		5	5					2	5	3	5					
LO9	3		5	5					2	5	3	5					
L10	3		5	5					2	5	3	5					

## Programme and learning outcomes

\*Contribution Level:

1 very low

**2** low

3 medium

**4** high

5 very high