



Al-Ayen University / Technical Engineering College / Department of Computer Technical Engineering

Template of Course Specification

Name and Scientific title of the subject instructor: M.Sc. Fatima Ghali

Name of Course: Programming 1

Course Specification

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification

1.	Teaching Institution	Al-Ayen University / Technical				
		Engineering College				
2.	University Department /	Computer Technical Engineering				
	Center					
3.	Course Title / Code	Programming 1				
4.	Program (s) to which it	B.Sc.				
	contributes					
5.	Modes of Attendance offered	Theoretical and practical lectures				
6.	Semester/Year	1 st / 2022				
7.	Number of hours tuition	150				
	(total)					
8.	Date of production/revision of	2021-2022				
	this Specification					
9.	Aims of the Course					
i.	Giving the student information about the basic concepts of the					
	components and rules of the C++ language and a method for an idea o					
	writing code to solve a particular problem					
ii.	Learn how to program a compo	Learn how to program a computer using C++ language				
iii.	Learn how to use language in solving issues related to the specialty					
10.	Learning Outcomes, Teaching, Learning and Assessment Methods					
А.	A1 - The student learns how to	interface computer programs with other				
	electronic devices.					
	A2- The student knows the reasons for using programming languages.					
	A3 - The student learns how to solve problems using programming					
	languages					
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حافظة الغين	
В.	 Subject-specific skills B1- The student acquires a skill in programming. B2 - The student acquires the skill of applying modern practical methods in the use of programming languages. B3 - The student acquires a skill in how to write programs. B4 - The student acquires the skill of using the best methods in solving software problems.
C.	 Assessment methods 1. The method of giving lectures 2. Student totals 3. Workshops 4. Reports and Studies 5. Use of illustrations and digital projectors for subjects that require this
E.	Teaching and learning methods 1. The method of giving lectures 2. Student Group 3. Workshops 4. Reports and studies 5. Use of illustrations and digital projectors for subjects that require this
G.	General and Transferable Skills (other skills relevant to employability and personal development) D1. verbal communication D2. Team work Analysis and verification D3. Written communication D4. Planning and organizing D5. Flexibility D6. time management D7. Initiative and motivation at work

11.	Course Structure				
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Methods	Assessment Methods
1-2	8		Introduction , structure of a c++ program , keyword and identifiers	give the lecture using PowerPoint	quizzes
3-4	8		Flowchart and algorithm	give the lecture using PowerPoint	quizzes
5-6	8	160	Operator and expression	give the lecture using PowerPoint	quizzes
7-9	8		Control and Selection statement	give the lecture	quizzes





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				using PowerPoint	
8-14	22		Iterations	give the lecture using PowerPoint	quizzes
15-18	12		Array	give the lecture using PowerPoint	quizzes
19-21	12	C.	Function	give the lecture using PowerPoint	quizzes
22-23	4		Structures and unions	give the lecture using PowerPoint	quizzes
24-25	4	5	String handling	give the lecture using PowerPoint	quizzes
26-27	4		Pointer	give the lecture using PowerPoint	quizzes
28-30	12	7	File handling	give the lecture using PowerPoint	quizzes

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12. Infrastructure	
Required reading:	1."starting with C++", Tony Gaddis,Scotte
·CORE TEXTS	Jones,5th ed.,Pearson, 2004.
·COURSE MATERIALS	2. "C++ the complete refrence", Herbert Schildt,
• OTHER	3rd ed., McGraw-Hill,1998.
Special requirements	International Journal of Advance Research in
(include for	Computer Science and Management Studies
example workshops,	
periodicals, IT	الكلية التقنية السند
software, websites)	(ENLUNIN/EDGITY)
Community-based facilities	"Learn C++"
)include for example, guest	http://www.tutorialspoint.com/cplusplus/index.htm
Lectures, internship, field	
studies)	





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