



Flow up of  
implementation  
syllabus

<b>Course Instructor</b>	Wesam Abbas Hamad AL-Salman				
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<b>Title</b>	Object Oriented Program (OOP)				
<b>Course Coordinator</b>	annual				
<b>Course Objective</b>	We define object-oriented programs (OOP) and Introduce students to the concepts of entity programming, such as entities, classes, data abstraction, polymorphism, and overloading. It also aims to provide students with programming skills through It is used to structure a program into a simple, reusable piece of code. The entire software program runs by having multiple objects interact with objects to create large programs.				
<b>Course Description</b>	At the end of the class, 1- The student recognizes and understands the subject fundamentals of object-oriented programming as Foundations. 2- The course focuses on the understanding and practical mastery of object-oriented concepts such as classes, objects, data abstraction, methods, method overloading, inheritance, and polymorphism.				
<b>Textbook</b>	1- Herber, Schildt, C++: The complete -1 Reference, 1998. Robert Lafore, 2- Object Oriented -2 Programming in C++, 2002				
<b>Course Assessment</b>	Term Tests %30	Laboratory %15	Quizzes %5	Project -	Final Exam %50
<b>General Notes</b>	-----				



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University: Thi-Qar  
College: Puer Sciences  
Department: Computer Sciences  
Stage: Second  
Lecturer name: Wessam Abbas  
Academic Status: Ass. Professor  
Qualification: PhD  
Place of work:

## Course weekly Outline

week	Date	Theoretical material	Lab. Experiment Assignments	Notes
1	17/9/2023	Review of C++ language	Application of the theoretical aspect	
2	24/9/2023	Introduction to object-oriented programming	Application of the theoretical aspect	
3	01/10/2023	History and types of programming languages	Application of the theoretical aspect	
4	08/10/2023	Unstructured languages	Application of the theoretical aspect	
5	15/10/2023	Languages with modules	Application of the theoretical aspect	
6	22/10/2023	The concept of object-oriented programming	Application of the theoretical aspect	
7	29/10/2023	Understanding symbolic strings	Application of the theoretical aspect	
8	05/11/2023	Indicators and how to use them	Application of the theoretical aspect	
9	12/11/2023	Classes and Objects	Application of the theoretical aspect	
10	19/11/2023	How to create Objects	Application of the theoretical aspect	
11	26/11/2023	Understanding encapsulation and access of classes	Application of the theoretical aspect	
12	03/12/2023	Functions and their types	Application of the theoretical aspect	
13	10/12/2023	Process Scope	Application of the theoretical aspect	
14	17/12/2023	Understanding the concept of constructor	Application of the theoretical aspect	
15	24/1/2023	concept of destructor	Application of the theoretical aspect	



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17	31/12/2023	Exams		
17	28/1/2024	Learn about the concept of inheritance	Application of the theoretical aspect	
18	04/2/2024	Understanding single inheritance	Application of the theoretical aspect	
19	11/2/2024	Understanding multiple inheritance	Application of the theoretical aspect	
20	18/2/2024	Understanding hybrid inheritance	Application of the theoretical aspect	
21	25/2/2024	Understanding and writing friendly functions	Application of the theoretical aspect	
22	03/3/2024	Identify function overloading	Application of the theoretical aspect	
23	10/3/2024	Identify operator overloading	Application of the theoretical aspect	
24	17/3/2024	Understanding entity pointers: Object pointer	Application of the theoretical aspect	
25	24/3/2024	Understanding pointers to the child entity	Application of the theoretical aspect	
26	31/3/2024	Understand examples of indicators		
27	07/4/2024	Understanding the matrix of indicators for entities		
28	14/4/2024	virtual functions		
	21/4/2024	Understanding category and abstraction		
29	21/4/2024	Exams		
30	28/4/2024	Exams		



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تؤيد اللجنة العلمية مطابقة الخطة التدريسية لمفردات منهج المادة الدراسية

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Instructor Signature(Lab.)

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Instructor Signature(Theoretical)

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1<sup>st</sup> Scientific committee member

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2<sup>nd</sup> Scientific committee member

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3<sup>rd</sup> Scientific committee member

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Head of Scientific committee

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