Jordan University of Science and Technology
Faculty of Computer & Information Technology
Computer Information Systems Department

HSS114CIS Programming For Engineers

Summer Semester 2024-2025

Course Catalog
3 Credit Hours. 3 Credit Hours. 3 Credit hours (2 hours lectures with 2 hours lab). This online course teaches you the C++ programming language from scratch, assuming only basic computer knowledge. While C++ is quite challenging, in this course we'll learn the basics step by step; towards the end of the course you'll learn how to create simple programs, including a Input/Output, Control Structures (Selection, Repetition), User-Defined Functions, and Arrays, structures and classes. Throughout the semester, problem solving skills will be stressed and applied to solving computing problems.
Teaching Method: Electronic Course

Text Book	
Title	C++ Programming: From Problem Analysis to Program Design
Author(s)	D. S. Malik
Edition	5th Edition
Short Name	Ref #1
Other Information	

Instructor	
Name	**Mrs. Rana Alkarem**
Office Location	CH1-L0
Office Hours	
Email	rkalkarem@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Tue, Wed : 17:00 - 18:00 Room: متزامن الحضور منصة الكترونية

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	An Overview of Computers and Programming Languages	From **Ref #1**
Week 2	Basic Elements of C++	From **Ref #1**
Week 3	Control Structures I (Selection)	From **Ref #1**
Week 4	Control Structures II (Repetition)	From **Ref #1**
Week 5	User-Defined Functions I	From **Ref #1**
Week 6	User-Defined Functions II	From **Ref #1**
Week 7	Arrays	From **Ref #1**

Mapping of Course Outcomes to Program Outcomes	**Course Outcome Weight (Out of 100%)**	**Assessment method**
The student will get familiar with programming languages. Also the student will learn how to edit, compile and execute simple programs. [1B, 1SO1]	15%	
The student will learn how to write C++ programs that utilize: documentation, data types, naming conventions, arithmetic operators, input/output methods and appropriate manipulators for formatting	17%	

Relationship to Program Student Outcomes (Out of 100%)																
A	B	C	D	E	F	G	H	I	J	K	SO1	SO2	SO3	SO4	SO5	SO6
	7.5										7.5					

Policy	
Attendance	Attendance is very important for the course. In accordance with university policy, students missing more than 20% of total classes are subject to failure. Penalties may be assessed without regard to the student's performance. Attendance will be recorded at the beginning or end of each class.
Exams	All exams will be Online and CLOSE-BOOK exams; necessary algorithms/equations/relations will be supplied if required.
Lab exercises and quizzes	- Held during an internal lab - There will be in-Lab programming quiz every week. - No makeup for quizzes. - Every student is expected to do the quizzes in his lab section. - Homework assignments will be posted on e-learning. - Homework submission will be through e-learning.