



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

CS102 Programming Lab

First Semester 2021-2022

Course Catalog

1 Credit Hours. This course offer students a comprehensive hands-on of programming in C++ through which, weekly laboratory experiments will provide hands-on experience in topics covered in this course. Topics covered include fundamentals of algorithms, flowcharts, problem solving, programming concepts, classes and methods, control structures, arrays, strings, and files. Throughout the semester, problem solving skills will be stressed and applied to solving computing problems.

Text Book

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

Instructor

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Class Schedule & Room
<p>Section 1: Lecture Time: Thu : 08:30 - 10:30 Room: CS05-M2L-3</p> <p>Section 6: Lecture Time: Thu : 10:30 - 12:30 Room: CS01-PH3 L-1</p> <p>Section 7: Lecture Time: Thu : 10:30 - 12:30 Room: CS02-PH1L-1</p> <p>Section 11: Lecture Time: Thu : 12:30 - 14:30 Room: CS02-PH1L-1</p> <p>Section 14: Lecture Time: Sun : 10:00 - 12:00 Room: CS05-M2L-3</p> <p>Section 22: Lecture Time: Mon : 14:00 - 16:00 Room: CS05-M2L-3</p>

Tentative List of Topics Covered		
Weeks	Topic	References
Week 2	Overview of programming and problem solving	Ch1 From Textbook
Week 3	Input / Output	Ch2 From Textbook
Week 4	Formatting the output/ unary operator/ simple and compound conditions/ one-way if	Ch2, Ch4 From Textbook
Week 5	Control Structure: Two-way if, nested if, and conditional operator	Ch4 From Textbook
Week 6	Control Structure: Switch and while	Ch4, Ch5 From Textbook
Week 7	Control Structure: For and do while	Ch5 From Textbook
Week 8	Control Structure: Nested loops	Ch5 From Textbook
Week 9	Arrays	Ch9 From Textbook

Week 10	Built-in functions	Ch6 From Textbook
Week 11	Value returning functions	Ch6 From Textbook
Week 12	Passing styles and void functions	Ch7 From Textbook
Week 13	Strings	Ch8 From Textbook

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
The student will edit, compile, and execute simple programs. [1SO1]	10%	Lab work, Mid Exam, Final Exam
The student will write a program using the C++ arithmetic operators, input/output methods and appropriate manipulators for formatting. [1SO1, 1SO2]	16%	Lab work, Mid Exam, Final Exam
The student will write a program using appropriate selection statements such as if, if-else and switch. [1SO1, 1SO2]	22%	Lab work, Mid Exam, Final Exam
The student will write a program using appropriate looping statements such as while, for and do-while. [1SO1, 1SO2]	20%	Lab work, Mid Exam, Final Exam
The student will use both one dimensional and multi-dimensional arrays. [1SO1, 1SO2]	10%	Lab work, Final Exam
The student will write a program using functions including built-in functions, user defined value returning functions and void functions. [1SO1, 1SO2]	16%	Lab work, Final Exam
The student will use character data and string processing. [1SO1, 1SO2]	6%	Lab work, Final Exam

Relationship to Program Student Outcomes (Out of 100%)					
SO1	SO2	SO3	SO4	SO5	SO6
55	45				

Evaluation	
Assessment Tool	Weight
Lab work	20%
Mid Exam	30%
Final Exam	50%

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

Date Printed: 2021-10-21