## **TEMPLATE FOR COURSE SPECIFICATION**

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

## **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	University of Anbar
2. University Department/Centre	College of computer science and information technology
	Information System Department
3. Course title/code	Structure Programming (C++) I
4. Programme(s) to which it contributes	First stage
5. Modes of Attendance offered	Theoretical and practical
6. Semester/Year	First Semester 2022\2021
7. Number of hours tuition (total)	3 h. theoretical 2 h. practical per week
8. Date of production/revision of this	
specification	
9. Aims of the Course	
Learn how to use the algorithms	
How to draw a flowcharts	
The main principles of programming and the	development of programming languages
Learn the principles of Structure programming	g
Learn How to programming with C++	

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
First Week	3 h.	Program ming principle s	Overview to Programming Language	Explain Menu, Getting Started with C++.	
Second Week	3 h.	Algorith ms	Algorithms and Flow Charts	Algorithms and Flow Charts	
Third Week	3 h.	C++ program ming	Character set Identifiers Getting Started with C++. Variables Declaration	Character set Identifiers Getting Started with C++. Variables Declaration	Quiz
Fourth Week	3 h.	Variables in C++	Variables Constants Arithmetic Operations The "math.h" Library Unary Minus Increment and /decrement Operators.	In program Explain Variables Constants Program of Arithmetic Operations The "math.h" Library	
Fifth Week	3 h.	Unary Operator s	Unary Minus Increment and /decrement Operators.	Program of Unary Minus Increment and /decrement Operators.	
Sixth Week	3 h.	Operatio nal Operator s	Operational Assignment Operators Relational Operators Logical Operators. Bitwise Operator Logical Operators. Bitwise Operator	Program Operational Assignment Operators Relational Operators Program Logical Operators. Bitwise Operator	Quiz
Seventh Week	3 h.	Selection Statemen ts	Selection Statements the Single. The Switch Selection Statement (Selector	Programs in Lectures	
Eighth Week	3 h.	If Statemen ts	Nested If and If/else Statements If Statement Structure Conditional Statement	Programs in Lectures	
Ninth Week	3 h.	To evaluate the students	Monthly exam		By exam
Tenth Week	3 h.	Switch Statemen ts	The Switch Selection Statement	Programs in Lectures	
Eleventh Week	3 h.	Loop Statemen ts	While Repetition Structure. Do/While Statement for Statement	Programs in Lectures	
Twelfth Week	3 h.	Do/Whil e Statemen t	Do/While Statement for Statement	Programs in Lectures	

Thirteenth Week	3 h.	For Statemen t	For Statement	Programs in Lectures	
Fourteenth Week	3 h.	Nested loop	Break and Continue Control Statements Nested Loops	Programs in Lectures	
Fifteenth Week	3 h.	To evaluate the students	Monthly exam		By exam

12. Infrastructure	
<ul> <li>Required reading:</li> <li>CORE TEXTS</li> <li>COURSE MATERIALS</li> <li>OTHER</li> </ul>	Mastering C++, shomme's series
Special requirements (include for example workshops, periodicals, IT software, websites)	https://www.learncpp.com/ https://www.w3schools.com/CPP/default.asp
Community-based facilities (include for example, guest Lectures, internship, field studies)	

13. Admissions		
Pre-requisites		
Minimum number of students	25-30	
Maximum number of students	50-60	