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 2020\2021
7. Number of hours tuition (total)	3 h. theoretical 2 h. practical per week
8. Date of production/revision of this specification	2021/09/21
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 program	ming
Learn How to programming with C++	

10. Learning Outcomes, Teaching ,Learning and Assessment Method
A- Knowledge and Understanding A1. Learn algorithms A2. Learn flowcharts A3. Learn structured programming A4. Learn C++ programming A5. A6.
B. Subject-specific skills B1. B2. B3.
Teaching and Learning Methods
Assessment methods
Final Exam project Quizzes Laboratory Term Tests
C. Thinking Skills C1. C2. C3. C4.
Teaching and Learning Methods
Assessment methods
Final Exam project Quizzes Laboratory Term Tests

D. General and Transferable Skills (other skills relevant to employability and personal development) D1. D2.

D3.

D4.

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		
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	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	