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 systems Department
3. Course title/code	Structure Programming (C++) II
4. Programme(s) to which it contributes	First Stage
5. Modes of Attendance offered	Theoretical and practical
6. Semester/Year	Second Semester 2021\2022
7. Number of hours tuition (total)	3 h. theoretical 2 h. practical per week
8. Date of production/revision of this specification	2021/09/18
9. Aims of the Course	
Learn how to use the Advanced Tools	
helps programmers write fast, portable programs	
The main principles of programming and the development of programming languages	
Learn the principles of Structure programming	

10· Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding
A1. Learn the algorithms
A2.Learn the Flowchart
A3.Learn C++ Programming
A4.
A5.
A6 .

B. Subject-specific skills
B1.
B2.
B3.

Teaching and Learning Methods

Assessment methods

Final Exam	project	Quizzes	Laboratory	Term Tests
50%		10%	15%	25%

C. Thinking Skills
C1.
C2.
C3.
C4.

Teaching and Learning Methods

Assessment methods

Final Exam	project	Quizzes	Laboratory	Term Tests
50%		10%	15%	25%

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.		Function	Programs in Lectures	
Second Week	3 h.		Passing Parameters. Passing by Value. Passing by Reference.	Program and example Passing Parameters. Passing by Value. Passing by Reference.	
Third Week	3 h.		Pointers	Pointers	Quiz
Fourth Week	3 h.		Arrays. Array of One Dimension: Declaration of Arrays.	Program and example Arrays. Array of One Dimension: Declaration of Arrays.	
Fifth Week	3 h.		Initializing Array Elements	Program and example Initializing Array Elements	
Sixth Week	3 h.		Accessing Array Elements.	Program and example Accessing Array Elements.	Quiz
Seventh Week	3 h.		Read / Write / Process Array Elements.	Program and example Read / Write / Process Array	
Eighth Week	3 h.		Array of Two Dimension: Declaration of 2D-Arrays.	Program and example Array of Two Dimension: Declaration of 2D-Arrays.	
Ninth Week	3 h.	To evaluate the students	Monthly exam		By exam
Tenth Week	3 h.		Read / Write / Process Array Elements.	Program and example Read / Write / Process Array Elements.	
Eleventh Week	3 h.		Member Function of String stdlib Library.	Program and example Member Function of String.	
Twelfth Week	3 h.		Structures. The Three Ways for Declare the Structure.	Program and example Structures. The Three Ways for Declare the	

				Structure.	
Thirteenth Week	3 h.		Array of Structures.	Program and example Array of Structures.	
Fourteenth Week	3 h.		The Files	Program and example of files	
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