

Description of the decision

This course description provides a concise summary of the most important course characteristics and learning outcomes the student is expected to achieve, showing whether they have made the most of the learning opportunities available. They should be linked to the description of the program.

Shatt Al-Arab University College	1. Educational institution
Computer technology engineering	2. Scientific Section/Center
FUND 9105/ Programing I	3. The name/code of the course
Weekly / 2 theoretical + 3 practical	4. Available attendee formats
Half-yearly	5. Chapter/year
150 hours / every week 5 hours	6. Number of school hours (total)
11/7/2022	7. The date this description was created
8. Objectives of the Rapporteur	
Understand and consolidate the basics of programming and use it to write simple and complex programs	
Analyzing programs and writing appropriate algorithms that help write the appropriate code.	



9. Course outputs and methods of teaching, learning and evaluation

A. Cognitive objectives

- A. 1- know the basic programming basics and draw diagrams to illustrate this.
- A2- Write the appropriate algorithms for the code
- Understand the basic principles of code and how it works, and translate it into machine language
- A4—detect bugs and logical phrases
- 5- using software that includes approaches and countries to solve big problems into a small, easy-to-solve group that can be implemented and used more effectively.

B. the objectives of the Special Rapporteur

- B1 – Identification, identification and resolution of software problems.
- B2 - the real analysis of the problem and its translation into a schema, algorithm, and code
- B3 - a mental conception of the code and how it can be used in electronic circuits in the future

Pedagogy

Explain and demonstrate through periodic lectures
Student group discussions of selected models of different questions about the application of theories and software fundamentals
Use of a meta-method to increase understanding and clarify through programmatic analysis and to demonstrate this in practice in the laboratory
These are also the most important tasks in the region

Assessment methods

Quarterly examinations and periodic examinations
Quizzes
Other descriptive tests

\$C. emotional and value objectives

C1- promote thinking and cull the responsibility of the engineering profession with a professional vision that meets the continuous need for learning and development through the recognition of the latest programming languages and programming of electronic devices

'2- using the basics of computer God to support the country's economy and develop the infrastructure through the support of available programs."

C 3 - work meaningful discussions with global software and engineering teams to improve software and engineering skills

C4- effective participation in serving his peers with competence and serving society and the country.

Pedagogy

- Theoretical presentation, relevance, and use of curriculum vocabulary with real-world examples.
- Theoretical application in laboratory with a step-by-step programmatic explanation.
- Group discussions

Assessment methods

Testing of various kinds every day

The student is assigned tasks between writing code and drawing diagrams and writing algorithms

Discussion among students about code, diagrams, algorithms and how to best solve the software problem while identifying good students

Reports and studies on the methods of writing algorithms and charts showing how code is written between the team

(D) General and transferable skills (other skills related to employability and personal development).

D1- communication skills, understanding and readers of the team's charts and algorithms

It is a very important part of the work of the Ministry of Foreign and Security in the country.

D3. Use of modern technology

10.Course structure					
Method of valuation	How to teach	The name of the unit/topic	Required Learning Outcomes	Hours	Week
Evaluate different evaluation methods for a yield test + a new assignment	Theoretical lectures (Principles and Rules) + practical	Introduction , structure of a c++ program , keyword and identifiers	Concept and comprehensible	2 hours + 1 workouts a week	1
	Theoretical lectures (Principles and Rules) + practical	Introduction , structure of a c++ program , keyword and identifiers			2
	Theoretical lectures (Principles and Rules) + practical	Flowchart and algorithm			3
	Theoretical lectures (Principles and Rules) + practical	Flowchart and algorithm.			4
	Theoretical lectures (Principles and Rules) + practical	Operator and expression			5
	Theoretical lectures (Principles and Rules) + practical	Operator and expression.			6
	Theoretical lectures (Principles and Rules) + practical	Control and Selection statement			7
	Theoretical lectures (Principles and Rules) + practical	Control and Selection statement			8
	Theoretical lectures (Principles and Rules) + practical	Control and Selection statement			9
	Theoretical lectures (Principles and Rules) + practical	Iterations			10

	Theoretical lectures (Principles and Rules) + practical	Iterations			11
	Theoretical lectures (Principles and Rules) + practical	Iterations.			12
	Theoretical lectures (Principles and Rules) + practical	Iterations			13
	Theoretical lectures (Principles and Rules) + practical	Iterations			14
	Theoretical lectures (Principles and Rules) + practical	Array			15
	Theoretical lectures (Principles and Rules) + practical	Array			16
	Theoretical lectures (Principles and Rules) + practical	Array			17
	Theoretical lectures (Principles and Rules) + practical	Array			18
	Theoretical lectures (Principles and Rules) + practical	Function			19
	Theoretical lectures (Principles and Rules) + practical	Function			20
	Theoretical lectures (Principles and Rules) + practical	Function			21
	Theoretical lectures (Principles and Rules) + practical	Structures and unions			22
	Theoretical lectures (Principles and Rules) + practical	Structures and unions			23

	Theoretical lectures (Principles and Rules) + practical	String handling			24
	Theoretical lectures (Principles and Rules) + practical	String handling			25
	Theoretical lectures (Principles and Rules) + practical	String handling			26
	Theoretical lectures (Principles and Rules) + practical	Pointer			27
	Theoretical lectures (Principles and Rules) + practical	Pointer			28
	Theoretical lectures (Principles and Rules) + practical	File handling			29
	Theoretical lectures (Principles and Rules) + practical	File handling			30

11. Infrastructure	
C Programming Absolute Beginner's Guide (3rd Edition) C++ Primer (5th Edition)	1- Required textbooks
1."starting with C++", Tony Gaddis,Scotte Jones,5th ed.,Pearson, 2004. 2. "C++ the complete refrence", Herbert Schildt, 3rd ed., McGraw-Hill,1998.	2- Main references (sources)
	A- Books and references recommended (scientific journals, reports, research)
CS107: C++ Programming	B- It is a good place to be

12.Course Development Plan

Develop curriculum by incorporating new vocabulary

Prompts the student to build and evaluates a software application project within the course of the school year

Inclusion of periodic courses