Kingdom of Saudi Arabia
Ministry of Higher Education
College of Computer & Information Sciences
Majmaah University

College of Computer
and Information Sciences
كلية علوم الحاسب والمعلومات

جامعة المجمعة
Majmaah University

Course Profile

Course Name:-	**Computer Programming**
Course Code:-	**CEN210**
Academic Year:-	**1434-35**
Semester:-	**Second semester**

Course Overview

This course is introducing the following topics This course provides a solid grounding in programming , in addition to the basic concepts of problems solving and computer programming ,including algorithms , pseudo code , tokens , keywords, identifiers , constants, operators, Manipulators expressions and control structure , Pointers, Functions, Function prototype, Parameter passing in functions, Values return by functions, Arrays, Applications of C++.

Course Details

Level:-	**6**
Credit:-	**3**
Pre-Requisites:-	**NIL**
Co- Requisites:-	**NIL**

Learning Outcomes of Course

After successful completion of this course, student will be able to-

1	To discuss the construction of appropriate algorithms for the solution of problems
2	Develop a high level algorithm that solves a given program specifications.
3	Familiarizing students to C++ Programming language.
4	Familiarizing students to debug the programs in C++ language.
5	Encouraging students to write good and complex programs.

6	Encouraging students to reflect some ideas in programs.

Course Assessment

Name of Assessment Task	Weight of Assessment	Week Due
1. Midterm Exam-1	15%	Week 6 / 7
2. Midterm Exam-2	15%	Week 12
3. Quizzes	10%	Week 4,7,10
4. Lab Assessment	20%	Week 5,14
5. Final Exam	40%	Week 16

Assessment Task and Learning Outcomes Alignment

Assessment Task Name	Course Learning Outcomes					
	1	2	3	4	5	6
1. Midterm Exam-1	√	√				
2. Midterm Exam-2			√	√		
3. Quizzes	√	√		√		
4. Lab Assessment	√	√	√	√	√	√
5. Final Exam	√	√	√	√	√	√

Teaching Contact Details

Name of Course Coordinator:-	Abdul Khadar Jilani
Email of Course Coordinator:-	a.jilani@mu.edu.sa
Lab/Tutorial Instructor:-	Ahsan Ahmed
Email of Lab/Tutorial Instructor:-	a.ahmed@mu.edu.sa
Office Hours:-	MON, TUE 9-10, Thu 9 - 11
Office Number:-	CCIS Building 024-1-19-3
Office Phone Number:-	2534

Details of Required Text Book

Book Name	Authors Name	Publisher	Year	Edition
1. C++ Premier	StanelyB.Lippman , Barbara E.Moo	Addison Wesley	**2012**	**5th**

Details of Required Reference Books

Book Name	Authors Name	Publisher	Year	Edition
1. Programming in ANSI C	**E Balaguru samy**	**Tata McGraw**	**2010**	**5th**
2. Object Oriented Programming with C++	**E Balagurusamy**	**Tata McGraw**	**2008**	**4th**
3.				

IT Resources

The following IT Resources will require to access-
- MU University Student Email
- Internet
- Course Website

Course Schedule

Course Topics	Book's Chapter	Event Name	Week Due
Algorithms and Flowchart techniques to solve problems	Chapter 1		Week-1,2
Introduction to C + + Language- Compared C + + Language with Other Languages- Basic Structure of the Program Written in C++ Language	**Chapter 1,2**	Assignment1	Week-3
Variables- Identifiers- Data Types-Input Output Statements. Remark Statements- Assignment Operator- Arithmetic Operation- Increment & Decrement Operators	**Chapter 2,3**	Quiz 1	Week-4,5
Practical Programs For Variables Definition and Arithmetic Operators	**Chapter 2,3**	Quiz 2 , Assignment 2	Week-6
Relational & Logical Operation-Conditional Statements (if, switch).	**Chapter 3,4,5**	Midterm 1	Week-7
Loops Statements(For -While -Do	**Chapter 5**	Assignment	Week-8 , 9

		3	
While) , Nested Loops			
Practical Programs For implementing loops and nested loops	**Chapter 5**	Quiz 3	Week-10
One-Dimensional, two dimensional arrays.	**Chapter 3**		Week-11,12
Functions and recursive functions, Introduction to Object oriented concepts	Chapter 6	Week 13 Midterm2 Week 14 Lab final exam	Week-13,14
			Exam Week

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Referencing Style

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The **American Psychological Association (APA)** referencing style must be use for all submissions of this course.

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Course Assessment Task

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Assessment Name:-	Midterm Exam-1
Description of Task Assessment:-	Midterm 1 is written examination schedule of this examination will be announced through college examination control committee .
Task Assessment Due Week/Date:-	**Week 7**
Return Week/Date to Students:-	**Week 8 Thursday**
Weight of Task Assessment:-	**15%**
List of Learning Outcomes Assessed:-	1.To discuss the construction of appropriate algorithms for the solution of problems. 2.Develop a high level algorithm that solves a given program specifications.

Assessment Name:-	Final Exam
Weight of Task Assessment:-	**40%**
Duration:-	**180 Min**
Warning:-	
List of Learning Outcomes Assessed:-	1.To discuss the construction of appropriate algorithms for the solution of problems
	2.Develop a high level algorithm that solves a given program specifications.
	3.Familiarizing students to C++ Programming language.
	4.Familiarizing students to debug the programs in C++ language.
	5.Encouraging students to write good and complex programs.
	6.Encouraging students to reflect some ideas in programs.