

## Faculty of Engineering & Technology

## **Computer Programming**

Information :

Course Code : CMP 132	Level	:	Undergraduate	Course Hours :	2.00- Hours

**Department :** Faculty of Engineering & Technology

## Instructor Information :

Title	Name	Office hours
Lecturer	Samah Ahmed Zaki Hassan	22
Lecturer	Samah Ahmed Zaki Hassan	22
Lecturer	Samah Ahmed Zaki Hassan	22
Assistant Lecturer	Mohamed Yahia Mohamed Abdelkader	
Assistant Lecturer	Amr Mansour Mohsen Afifi	
Assistant Lecturer	Mahinda Mahmoud Samy Ahmed Zaki Zidan	
Teaching Assistant	Dina Ayman Ahmed Mohamed Elmatarwy	
Teaching Assistant	Aya Mohamed Ahmed Morsy Farag	
Teaching Assistant	Warda Mustafa Saied Mahmoud	
Teaching Assistant	Mariam Ali Ibrahim Elsayed	
Teaching Assistant	Mona Mohamed Mohamed Ali Almakhton	

## Area Of Study :

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Description	
Description	

Fundamental programming constructs: Syntax and semantics of a higher-level language; variables, data types, arrays Áexpressions, assignment statements ÁSimple I/O Conditional and iterative control structures ÁFunctions and parameter passing Function Basics . ÁRecursion.

### Course outcomes :

a.Knowledge and Understanding: :			
1 - Outline basic knowledge of a core of program analysis.			
2 -	Recognize the fundamental programming techniques and concepts including control constructs, looping techniques, and functions as components.		

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3 -	Identify steps of implementation and evaluation of computer programs.			
4 -	Write programs of real-world applications using C++.			
b.Intellectual Skills: :				
1 -	1 - Discover different ways to solve engineering problems.			
2 -	Compare solutions to code an appropriate one.			
3 -	Interpret written programs to show outputs.			
c.Professio	c.Professional and Practical Skills: :			
1 -	1 - Collect problem specifications to write the program code.			
2 -	Recommend a suitable way to write a C++ computer program.			
d.General and Transferable Skills: :				
1 -	Working within multidisciplinary team.			
2 -	Work in stressful environment.			

# Course Topic And Contents :

Tonic	No. of hours	Locturo	Tutorial / Practical
Торіс	NO. OF HOURS	Lecture	Tulonal / Fractical
History and importance of computer programming.	4	1	1
Overview, Basic programming in C++, essential concepts, programming style.	8	2	2
Elements of programming (code, data types, Variables, assignment statements)	4	1	1
Assignment statements, logical and arithmetic operations, and input/output examples.	4	1	1
Logical expressions and control constructs: if-else, nested if.	4	1	1
Logical expressions and control constructs: switch	4	1	1
Looping techniques: For loop	4	1	1
Looping techniques: while, doõ õ while.	4	1	1
Looping techniques: nested loop.	4	1	1
Arrays	8	2	2
Building functions, including parameter, scope, and return values	8	2	2
Recursive Functions	4	1	1

# Teaching And Learning Methodologies : Interactive Lecture Discussion Problem-based Learning Report Experiential Learning

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Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
Assignment	5.00		
Final Exam	40.00		
Lab Exper.	10.00		
Mid- Exam 1I	15.00		
Mid- Exam I	15.00		
Oral Exam	5.00		
Quizzes	10.00		

## Course Notes :

## Recommended books :

# Periodicals :

# Web Sites :

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