

Faculty of Computers & Information Technology

Computer Programming 2

Information:

Course Code: CSC 213 Level: Undergraduate Course Hours: 3.00- Hours

Department: Faculty of Computers & Information Technology

Instructor Information:		
Title	Name	Office hours
Lecturer	HEBA MOHSEN MOHAMED MOSAAD HUSSIEN	7
Lecturer	HEBA MOHSEN MOHAMED MOSAAD HUSSIEN	7
Assistant Lecturer	Hadeer Khalid Tawfik El Zayat	6
Assistant Lecturer	Hadeer Khalid Tawfik El Zayat	6
Teaching Assistant	Mahinda Mahmoud Samy Ahmed Zaki Zidan	
Teaching Assistant	YASMIN AMR AHMED ANWAR ALI BADR	2

Area Of Study:

Object-oriented programming: data abstraction, encapsulation, classes, objects, templates, operator overloading, function overloading, inheritance, polymorphism, exception handling, and streams language to develop computer programs.

Description:

Object-oriented programming: data abstraction, encapsulation, classes, objects, templates, operator overloading, function overloading, inheritance, polymorphism, exception handling, and streams

Course outcomes:

a.Knowledge and Understanding: :

1 - To understand the principles of the object oriented programming paradigm specifically including abstraction, encapsulation, inheritance and polymorphism

b.Intellectual Skills::

- Construct appropriate diagrams and textual descriptions to communicate the static structure and dynamic behavior of an object oriented solution
- 2 Describe and explain the factors that contribute to a good object oriented solution, reflecting on your own experiences and drawing upon accepted good practices

c.Professional and Practical Skills: :

- 1 Use an object oriented programming language, and associated class libraries, to develop object oriented programs
- 2 Design, develop, test, and debug programs using object oriented principles in conjuncture with an integrated development environment-



Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Java	4	2	2
Primitive Data Types and Operations	4	2	2
Control Statements	4	2	2
Methods	4	2	2
Arrays & Strings	4	2	2
Objects and Classes	4	2	2
Midterm -1	3	1	2
Class Inheritance & Polymorphism	4	2	2
Abstract & Interface classes	4	2	2
Midterm-2	3	1	2
Exception Handling	4	2	2
Final Exam	4	2	2

Teaching And Learning Methodologies :
Lectures
Exercises
Practical training
Self-Study Self-Study
Open Discussion
Presentation
Project
Web site searches
E-learning
Case Study

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
Assignment	5.00	11	
Attendance	5.00	2	
Final Exam	40.00	12	
Mid-Term Exam1	15.00	7	
Mid-Term Exam2	15.00	10	
Project	20.00	11	

