

## Faculty of Computers and Information Technology

### Object Oriented Programming

**Information :**

**Course Code :** CSC 224

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Faculty of Computers and Information Technology

**Instructor Information :**

Title	Name	Office hours
Lecturer	Maryam Nabil Zakaria Al Berry	
Teaching Assistant	Gehad Assem Elsayed Ali Hussein	3

**Area Of Study :**

This course teaches object-oriented programming. Object-orientated programming offers a natural method for designing software systems that build on the concepts of data abstraction, information hiding and modularity. Students will design and implement solutions to problems using an object-oriented programming language.

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**Course outcomes :**

**a.Knowledge and Understanding: :**

1 - To understand the principles of Object Oriented Programming

**b.Intellectual Skills: :**

1 - Understand the mathematics, algorithms design, and Programming skills needed to develop applications

**c.Professional and Practical Skills: :**

1 - Use JAVA programming language, and associated libraries, to develop Computer application

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Primitive Data Types and Operations	4	2	2
Control Statements	4	2	2
Methods - Arrays . String	4	2	2
Objects and Classes- Inheritance	4	2	2
Graphical User Interface (GUI)	4	2	2
Using Colors, Fonts, and Font Metrics Drawing Geometric Figures	4	2	2

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<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Tutorial / Practical</b>
Midterm -1	3	1	2
Applets	4	2	2
Graphics and Imaging-1	4	2	2
Midterm-2	3	1	2
Graphics and Imaging-2	4	2	2
Graphics Color	4	2	2
Java networking-1	4	2	2
Java networking-2	4	2	2

### **Teaching And Learning Methodologies :**

Lectures  
Exercises  
Projects  
Practical training  
Presentation  
Open Discussion  
Web-Site searches  
E. Learning  
Self Studies  
Case Study

### **Course Assessment :**

<b>Methods of assessment</b>	<b>Relative weight %</b>	<b>Week No</b>	<b>Assess What</b>
Assignments	5.00	4	
Attendance	5.00	2	
Final Exam	40.00	12	
Mid-term Exam 1	15.00	7	
Mid-term Exam 2	15.00	10	
Project	20.00	11	To develop an related application

### **Recommended books :**

1. Harold, Elliotte, JAVA Network Programming, Third Edition, O'Reilly Media,
2. Herbert Schildt, Java: The Complete Reference, McGraw-Hill Osborne Media; 7 edition,
3. Peter DePasquale, Java Backpack Reference Guide, Publisher: Addison Wesley

