

Syrian Arab Republic	 الجامعة الافتراضية السورية SYRIAN VIRTUAL UNIVERSITY	الجمهورية العربية السورية
Ministry of Higher Education		وزارة التعليم العالي
Syrian Virtual University		الجامعة الافتراضية السورية

## Object Oriented Programming and Design

### 1. General Information :

Course Name	Object Oriented Programming and Design
Course Code	IPG204
Offline sessions	
Online Sessions (CHTC )	36 hours
Exam Hour	1.5
Student effort to follow offline sessions	
Student effort to follow online sessions (WLTC)	36
Course hours (CRDC)	6

### 2. Pre-requisite Courses:

Course	Code
Introduction to Programming	IPG101

### 3. Objective :

This course contains the following aspects:

- I. Objects & Classes
- II. Inheritance
- III. Polymorphism
- IV. Interfaces
- V. Data types

### 4. Intended Learning Objectives/Outcomes – ILO

ILO	Intended Learning Objectives/Outcomes
ILO1	Create a class with a method and a method with parameters using Visual Studio 2013
ILO2	Basics for classes: objects, members, properties, methods, constructor, this
ILO3	Composition, Static properties and static method

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ILO4	Inheritance: protected members, Base classes, inherited classes
ILO5	Polymorphism
ILO6	Abstract classes
ILO7	Interfaces
ILO8	Operator overloading
ILO9	Exceptions
ILO10	Indexer
ILO11	Structure data types: type constraints
ILO12	Collections: ArrayList, LinkedList

## 5. References

Visual C# 2012 How to Program, Paul Deitel – Harvey Deitel, %th Edition, **Prentice Hall, 2014.**