

Course Syllabus

1.	Course title	Object Oriented Programming 1
2.	Course number	1902211
3.	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
4.	Prerequisites/corequisites	Passing CS Exam or RCS (1902099)
5.	Program title	Computer Information System
6.	Year of study and semester (s)	First Semester 2019-2020
7.	Final Qualification	Bachelor (Bsc)
8.	Other department (s) involved in teaching the course	None
9.	Language of Instruction	English
10.	Date of production/revision	Production 18/9/2019 , Revision: 24/9/2019
11.	Required/ Elective	Required

12. Course Coordinator:

Miss Rola Al-Khalid
Office No.: 217
Office hours: Sunday: 11-12, Tuesday: 11-12, Monday: 11-12.
Phone number: 22604
Email: r.khalid@ju.edu.jo

13. Other instructors:

Mrs Aseel Al-Anani
Office No.: 217
Office hours: Sunday: 11-12, Tuesday: 11-12, Monday: 11-12.
Phone number: 22604
Email address: a.anani@ju.edu.jo

Dr. Esra Alzaghoul
Office No.: 322
Office hours: Sunday: 12-1, Tuesday: 12-1, Thursday: 12-1
Phone number: 22614
Email: e.zaghoul@ju.edu.jo

14. Course Description:

The course will cover the following topics:
Object-Oriented Programming (OOP) Environment; Input/Output; Loops; Decision; Methods; Arrays and Strings; Encapsulation; Object Oriented Programming; Useful OO features; Classes and objects; inheritance; Polymorphism; Applet

15. Course aims and outcomes:

A- Aims: The main goals of this course are to equip students with knowledge and skills on how to analyze and specify problems, to design solutions, algorithms and implement the solutions using Java Programming Language.
B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...
A- Knowledge and Understanding:
A1) Knowing the fundamental concepts underlying object oriented programming and problem solving, using the Java programming language. A2) Knowing the syntax and semantics of the Java language A3) Understanding how to develop and implement applets and application programs in Java A4) Understanding various forms of data, controls and object structures supported by Java A5) Understanding of Structured data, Statement sequencing, Logic control, Classes, Objects, Methods and Arrays
B- Intellectual skills: with the ability to ...
B1) Analyze and specify the given problem, the boundaries of the problem and constraints on the solution. B2) Implement the solution and carry out the steps in the algorithm B3) Test the solution to ensure that it will yield appropriate results. B4) Realize the importance of Java Programming Language
C- Subject Specific Skills: With ability to
C1) Deal with Java application and applet. C2) Solve real world problems using Java programming language
D- Transferable skills:
D1) Discuss and work in a group in order to solve different real world problems D2) Improve students skills in using Java programming language

16. Topic Outline and Schedule:

Topic	Week	ILOs	ABET SOs	TLA(teaching, learning and Assessment)
Introduction to Java Programming Language	1 Week	A1	1	In class Questions
Introduction to Java Applications	2 Weeks	A1, A2, A3, D2	1,2	In class Questions, Lab work

Introduction to Classes and Objects	2 Weeks	A2, A3, B1, B2, B3, B4, C1, D1, D2	1,2	Assignment, Practical Exam, Lab work
Control Structures I	1 Week	A2, A3, A4, B1, B2, B3, C1, D1, D2	1,2	Assignment, Practical Exam, Lab work
Control Structures II	1 Week	A2, A3, A4, B1, B2, B3, C1, D1, D2	1,2	Assignment, Practical Exam, Lab work
Methods	2 Weeks	A2, A3, A5, B1, B2, B3, B4, C1, D2	1,2	In class Question, Assignment
Introduction to Applets	1 Week	A2, A3, B4, C1, C2, D1, D2	1,2	Homework, Lab work, Practical Exam
Arrays	2 Weeks	A5, B1, B2, B3, B4	1,2	In class Questions, Lab work
Classes and Objects	1 Week	A5, B1, B2, B3, B4, C1, C2, D1, D2	1,2	In class Questions, Lab work
Object Oriented Programming: Inheritance	2 Weeks	A5, B1, B2, B3, B4, C1, C2, D1, D2	1	In class Questions
Object-Oriented Programming: Polymorphism	1 Week	A5, B1, B2, B3, B4, C1, C2, D1, D2	1	In class Questions

17. Evaluation Methods and Course Requirements (Optional):

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

18. Course Policies:

A- Attendance policies:

Maximum allowable absence 15% of number of Lectures/Semester

B- Absences from exams and handing in assignments on time:

It is the student's responsibility to ensure that he/she is aware of all assignments, announcements and contents of missed sessions

C- Health and safety procedures:

It is the student's responsibility to shut down the computer according to the correct procedures and keep the equipment clean.

D- Honesty policy regarding cheating, plagiarism, misbehaviour:

It is the student's responsibility to ensure that he/she knows the consequences of cheating, plagiarism and misbehaviour.

E- Grading policy + Weighting (i.e. weight assigned to exams as well as other student work)

Assessment will be as follows:

Assignments, Practical exams, Quizzes	20
Midterm exam	30
Final exam	50

F- Available university services that support achievement in the course:

Computer Labs, E-Learning

G- Statement on Students with disabilities

Students with Disabilities: Students with disabilities who need special accommodations for this class are encouraged to meet with the instructor and/or their academic advisor as soon as possible. In order to receive accommodations for academic work in this course, students must inform the course instructor and/or their academic advisor, preferably in a written format, about their needs no later than the 4th week of classes.

19. Required equipment:

Eclipse, and Java SDK 1.7 are installed in all KASIT labs

20. References:

A- Required book (s), assigned reading and audio-visuals:

Java How to Program, Deitel & Deitel, Prentice Hall, 9th Edition, 2012

B- Recommended books, materials, and media:

1. Thinking in java, Bruce Eckel, Prentice Hall, 4th edition 2006
2. Java 2 The Complete Reference, Herbert Schildt, McGraw Hill, 7th Ed.2007
3. Java programming: A beginners Guide to learning Java, step by step. By Troy Dimes 2015
4. Java: A beginner's Guide. By Herbert Schildt 2014
5. Head First Java, 2nd Edition By Katy Sierra and Bert Bates 2005
6. Learning Java 4th edition By Patrick Niemeyer, Daniel Leuck. Publisher: O'Reilly Media, 2013
7. Java object oriented language, M. Smith, McGraw Hill 1999.
8. An Introduction to object programming with Java, McGraw Hill, 5th Ed.1999

21. Additional information:

1. Every student is expected to completely adhere to the exams dates and projects strict deadlines, absolutely no exceptions will be given.

2. Maximum allowable absence 15% of number of Lectures/Semester

- الامتتاع المدبر عن حضور المحاضرات أو الدروس أو عن الأعمال الأخرى التي تقضي الأنظمة بالمواطبة عليها ، وكل تحريض على هذا الامتتاع سوف يؤدي الى حرمان الطالب من المادة المعنية.
- في حالة التغيب عن امتحان ال Mid Term لن يكون هناك امتحان تعويضي الا في حالة وجود عذر وحالة طارئة من المستشفى. على الطالب ابراز العذر لمدرس المادة في فتره لا تتجاوز الثلاثة ايام من تاريخ الامتحان. وللمدرس الحق في قبول او رفض العذر , وحسب التعليمات.
- Concerns or complaints should be expressed in the first instance to the module lecturer; if no resolution is forthcoming then the issue should be brought to the attention of the module coordinator (for multiple sections) who will take the concerns to the module representative meeting. Thereafter problems are dealt with by the Department Chair and if still unresolved the Dean and then ultimately the Vice President. For the final complaints, there will be a committee to review grading the final exam.
- For more details on University regulations please visit <http://www.ju.edu.jo/rules/index.htm>

Date: -----18/9/2019-----

Name of Course Coordinator: -----Rola Al Khalid-----Signature: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:

Head of Department

Assistant Dean for Quality Assurance

Course File