The Hashemite University

الجامعـــــة الهاشميـــــة

Deanship of Academic Development and International Outreach

عمادة التطوير الأكاديمي والتواصل الدولي

Syllabus: Object-Oriented Programming 2 Lab (1910011213)

Second Semester 2021/2022

COURSE INFORMATION

Course Name: Object-Oriented Programming 2Lab **Semester:** Second Semester 2021 /2022 **Department:** Department of Computer Science and Application **Faculty:** Prince Al-Hussein bin Abdullah II Faculty for Information Technology	**Course Code:** 1910011213 **Section:** 1 **Core Curriculum**:
Day(s) and Time(s): Monday: 11-12.30 Wednesday: 11-12.30 **Classroom:** IT: 204	**Credit Hours:** 1.5 **Prerequisites**: 1910011212

COURSE DESCRIPTION

This course presents a practical introduction to object-oriented programming, exemplified by Java. This is a practical course where students complete a set of programming assignments using Netbeans; the leading JAVA integrated development environment (IDE). Several object-oriented programming concepts are introduced in this course including classes, objects, inheritance, abstract classes, interfaces, polymorphism, and object-oriented graphical user interfaces using SWING.

DELIVERY METHODS

The course will be delivered through a:-

- Solving advanced Object-Oriented problems practically within Lab.

FACULTY INFORMATION

Name	**Ayat Al Ahmad**
Academic Title:	**Tutor**
Office Location:	**IT 248**
Telephone Number:	**-**
Email Address:	**ayat@hu.edu.jo**
Office Hours:	**Sunday/Tuesday/Thursday 11-12** *Please send an e-mail (ayat@hu.edu.jo) to meet at any other time.*

REFERENCES AND LEARNING RESOURCES

Required Textbook:
Introduction to JAVA Programming – Comprehensive Version, Y. Daniel Liang, 8th edition, Pearson Education, 2010
Suggested Additional Resources:
Deitel & Deitel, Java: How to Program, 9th edition, Prentice Hall, 2011.
Useful Web Resources:
www.java.sun.com

STUDENT LEARNING OUTCOMES MATRIX*

Core Curriculum Learning Outcomes	Program Learning Outcomes	Course Student Learning Outcomes	Assessment Method
Design, implement, and evaluate computing-The based solution to meet a given set of computing requirements in the context of the program's discipline.	Teach computer science as a discipline of problem–solving.	Apply object-oriented programming concepts including classes, objects, inheritance, polymorphism, abstract classes, and interfaces in designing Java Applications.	• Exams • Assignments
		Design Graphical User Interface using Java API classes.	• Quiz • Assignments
		Create an interactive application using event handling techniques.	• Exams • Homework
		Apply exception handling concept to handle run-time errors	• Exams • homework

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their Instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section:

Tel: 053903333 EXT 5023/4583

Location: (https://hu.edu.jo/facnew/index.aspx?typ=68&unitid=70000000)

Email: (huniv@hu.edu.jo)

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance*. It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected

Late or Missed Assignments

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail to submit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.
- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with University regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

Student Complaints Policy

Students at Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account.

Assessment	Grade Weighting	Deadline Assessment
MID EXAM	40%	To be announced
Quiz	10%	To be announced
Final Exam	50%	To be announced

Description of Exams:
Test questions will predominately come from the material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. Exam will consist of a combination of multiple-choice, short answer, match, true and false and/or descriptive questions.

Homework:
Will be given for each chapter, while the chapter in progress you are supposed to work on them continuously and submit in next lecture when I finish the chapter.
You are also expected to work on in-chapter examples, self-tests and representative number of end of chapter problems. The answers of self-tests and end of chapter exercises are given at the end of the book.

Quizzes: Unannounced quizzes will be given during or/and at the end of each chapter based upon the previous lectures. It will enforce that you come prepared to the class.

No make-up exams, homework, or quizzes will be given. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria*:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION				
Topic Details	**Course ILO number**	**Reference**	**No. of Weeks**	**Contact hours***
1. Objects and Classes	1	Ch8	3	9
2. Inheritance and Polymorphism	1	Ch11	4	12
3. Abstract Classes and Interfaces	1	Ch14	2	6
4. GUI Basics	2	Ch12	2	6
5. Event-Driven Programming	3	Ch16	2	6
6. Exception Handling	4	Ch13	1	3
Total			14	42