

The University of Jordan Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Object Oriented Programming 2
2	Course number	1902213
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
4	Prerequisites/co requisites	Object Oriented Programming 1 (1902211)
5	Program title	Computer Information Systems
6	Program code	2
7	Awarding institution	The University of Jordan
8	Faculty	King Abdullah II school for IT
9	Department	Computer Information Systems
10	Level of course	Second Year
11	Year of study and semester (s)	2014/2015 Second Semester
12	Final Qualification	B.Sc.
13	Other department (s) involved in	_
13	teaching the course	
14	Language of Instruction	English
15	Date of production/revision	5/2015
16	Required/ Elective	Required

17. Course Coordinator:

Loai Alnemer

Office Hours: Sun- Wed 9-10,

Phone Number: 22613

E-mail: l.nemer@ju.edu.jo

18. Other instructors:

None

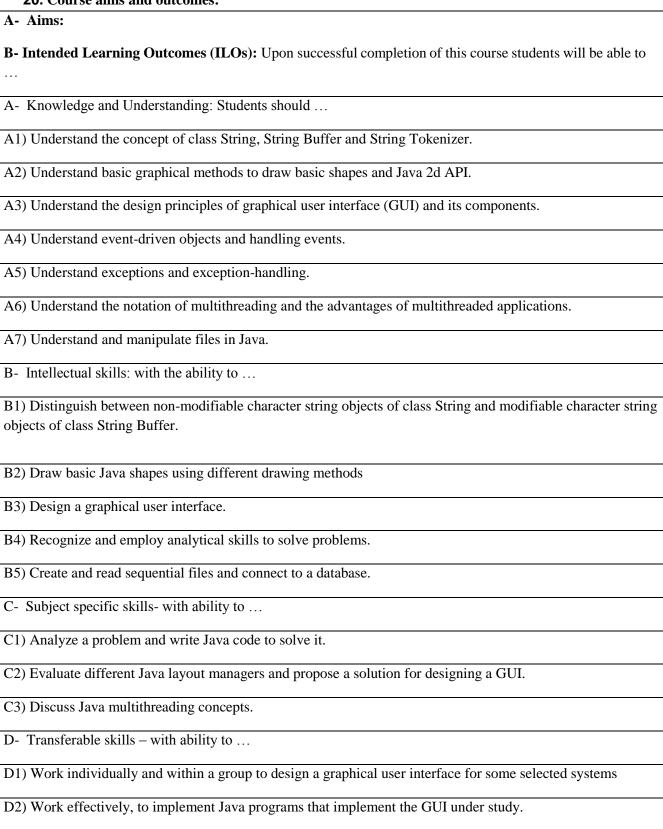
19. Course Description:

the course will cover the following topics:

Graphics: Coordinate systems and drawing methods, Graphical User Interface and event handling,

Exception handing, Multithreading and Strings

20. Course aims and outcomes:



- D3) interact with the other study groups to make different implementation of the same project.
- D4) Present the final project and make a demo.

21. Topic Outline and Schedule:

Торіс	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
INTRODUCTION:					
Data Hierarchy, Objects,					
Methods, Classes,	1	Loai Alnemer	C1,D1		Chapter 1,2
Instantiation, Methods Call,					
Attributes, Encapsulation,					
Inheritance, Java Program					
GRAPHICS			,,-	Homework + Quiz	attendance, Discussion, Chapter 15
Graphics Contexts And					
Graphics Objects, Drawing		Loai			
Strings, Lines, Rectangles,	2, 3	Alnemer			
Ovals, Arcs, Polygons And		7 Killemer			
Polylines					
Color Control, Font Control					
GRAPHICAL USER				Homework	attendance, discussion, Chapters 14
INTERFACE					
COMPONENTS					
Simple GUI-Based					
Input/Output With		Loai	A3,B3,C2,		
JOPTIONPANE, Overview	4	Alnemer	D2		
Of Swing Components, Text					
Fields, Password Fields And					
An Introduction To Event					
Handling With Nested					
Classes					
GRAPHICAL USER				quiz	attendance, discussion, handout, Chapter 14
INTERFACE	5				
COMPONENTS					
Simple GUI-Based		Loai	A3,B3,C2,		
Input/Output With		Alnemer	D2		
Joptionpane Overview Of					<u>r</u>
Swing Components					
Text Fields, Password Fields.					

GRAPHICAL USER INTERFACE COMPONENTS Simple GUI-Based Input/Output With Joptionpane Overview Of Swing Components Text Fields, Password Fields. Introduction To Event Handling Common GUI Event Types And Listener Interfaces How Event Handling Works GRAPHICAL USER	6	Loai Alnemer	A4,D1,D2	homework	attendance, discussion, handout, Chapter 14
INTERFACE COMPONENTS Jbutton Jcheckbox Jradiobutton Jcombobox And Using An Anonymous Inner Class For Event Handling Jlist, Multiple- Selection Lists Mouse Event Handling Adapter Classes Layout Managers (Flowlayout, Borderlayout, Gridlayout) Jtextarea Using Menus With Frames	7, 8	Loai Alnemer	A3,B3,C2, D2	homework	attendance, discussion, handout, Chapter 13
	9	Loai Alnemer		Practical Exam	
EXCEPTION HANDLING: Exception-Handling Overview Example: Divide By Zero Without Exception Handling Example: Handling Arithmetic exceptions And Input mismatch exceptions When To Use Exception Handling Java Exception Hierarchy Finally Block	10,11	Loai Alnemer	A5	quiz, homework on arrays	attendance, discussion, handout, Chapter 11

STRING, STRINGBUFFER AND STRINGTOKENIZER CLASSES Fundamentals Of Characters And Strings Class String String Constructors Concatenating Strings String Methods Class Stringbuffer Class Stringtokenizer	11, 12, 13	Loai Alnemer	A1,B1,C1, D1,D2	Homework	attendance, discussion, handout, Chapter 16
MULTITHREADING Thread States: Life Cycle Of A Thread Thread Priorities And Thread Scheduling Creating And Executing Threads	14, 15	Loai Alnemer	A6,D1,D2, D4	homework	attendance, discussion, handout, Chapter 16
FILES AND STREAMS (Self Learning) Class File Read From A File Write To A File	12	Loai Alnemer	A7,B5,D1, D2,D3,D4		attendance, discussion, handout, and Section 9.2 from scheider, Chapter 4 from Petroutsos

22. Teaching Methods and Assignments:

Development of ILOs is promoted through the following <u>teaching</u> and <u>learning</u> methods:

23. Evaluation Methods and Course Requirements:

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

Quizzes and home works through the semester. Midterm exam, Practical Exam and Final exam

24. Course Policies:

A- Attendance policies:

Students are allowed up to 7 absences. If you exceed this number, you will fail the class.				
B- Absences from exams and handing in assignments on time:				
All projects and assignments are to be uploaded to the course website.				
☐ Upload assignments to elearning.ju.edu.jo (Moodle) by 11:55 PM on its due date.				
□ □ Everyone should check their e-mail and Moodle regularly. Students are responsible for information posted there. If critical information is posted in Moodle that you must read today, an announcement to check elearning will be sent to the mailing list.				
C- Health and safety procedures:				
D- Honesty policy regarding cheating, plagiarism, misbehavior:				
Discussion of the concepts and principles between students is fine and very welcomed. Also, students are allowed to debug each other's code. However, Student cooperation should not result in identical or near identical answers/code/documentation. ALL THE MATERIAL SUBMITTED FOR GRADING MUST BE YOUR OWN EFFORT.				
If this policy is violated then the following steps may be taken: (1) reduction of points by dividing by the number of students involved in an incident, (2) assignment of a grade of ZERO for all students involved in an incident.				
E- Grading policy:				
Quizzes and assignments 20% Practical Exams 30% Final Exam 50%				
F- Available university services that support achievement in the course:				

25. Required equipment:

TextPad and Java SDK 1.6 are installed in all KASIT labs

26. References:

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

Java How to Program, Deitel and Deitel, 9th edition. Publisher: Prentice Hall, New Jersey 2012.

Recommended books, materials, and media:

Understanding Object Oriented Programming with Java

Author: T. Budd, Publisher: Addison Wesley.

27. Additional information:	
None	
Name of Course Coordinator:Signature:	Date:
Head of curriculum committee/Department:	Signature:
Head of Department: Signature:	
Head of curriculum committee/Faculty:	- Signature:
Dean:	
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Copy to:	
Head of Department	
Assistant Dean for Quality Assurance	
Course File	

Online References: http://www.deitel.com http://java.sun.com