

**Kingdom of Saudi Arabia**  
**The National Commission for Academic Accreditation & Assessment**

**113CSS-4**  
**Object Oriented Programming**

**Course Specification**  
**Second Semester 2016-2017**

## Course Specification

<b>Institution : Najran University</b>	<b>Date of Report : 05-May-2017</b>
<b>College/Department : College of Computer Science and Information Systems, Department of Computer Science</b>	

### A. Course Identification and General Information

1. Course title and code : Object Oriented Programming, 113CSS-4		
2. Credit Hours : 4		
3. Programs : Bachelor of Science in Computer Science		
4. Name of the faculty member responsible for the course: Dr. Mohd Abdelgadir Mohd Khairi		
5. Level of the Course offered : Level - 4		
6. Pre-requisites for this course : 111CSS-4		
7. Co-requisites for this course : 111CSS-4		
8. Location : Female Campus		
9. Mode of Instruction :		
a. Traditional classroom	<input type="checkbox"/> What percentage?	<input type="text"/>
b. Blended (traditional and online)	<input type="checkbox"/> What percentage?	<input type="text"/>
c. e-Learning	<input type="checkbox"/> What percentage?	<input type="text"/>
d. Correspondence	<input type="checkbox"/> What percentage?	<input type="text"/>
e. Other	<input type="checkbox"/> What percentage?	<input type="text"/>
Comments:		

## B. Objectives

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## C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
1. Quick overview of Java. Principles of OOP, Anatomy of First Simple program of Java.	1	
2. Examining Java's most fundamental elements: Data types and variables, use of data types and dynamic initialization. Scope and life time of variable.	1	
3. Operators, Control Statements: Selection (if, nested if, if " else " if, switch), iteration (while, do " while, for) and jump (break, continue and return)	1	
4. Basic elements of class, operator new, creation of objects, methods, constructors, Overloading methods, overloading constructors.	1	
5. Using objects as parameters. Argument passing by value and by reference, returning objects.	1	
6. Introducing access control, Understanding static.	1	
7. Array Basics, Arrays of Objects.	1	
8. Inheritance Basics, Polymorphism, Method overriding, Applying method overriding.	1	
9. Using abstract classes, using final to prevent overriding. Packages, access protection, importing packages	1	
10. Defining and implementing Interface, Variables in interface	1	
11. Exception handling mechanisms	1	
12. Java Thread Model, Thread class and Runnable interface, The main thread, Creating thread and multiple thread.	1	
13. I/O Basics, Streams, Reading characters and string, Reading and Writing files.	1	
14. Applet fundamentals, applet class.	1	

## 2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other	Total
Contact Hours						0
Credits						0

## 3. Additional private study/learning hours expected for students per week.

<b>4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy</b>
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	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Method
<b>1.0</b>	<b>Knowledge</b>		
1.1	Not applicable to this course		
<b>2.0</b>	<b>Cognitive</b>		
2.1	Not applicable to this course		
<b>3.0</b>	<b>Interpersonal</b>		
3.1	Not applicable to this course		
<b>4.0</b>	<b>Communication</b>		
4.1	Not applicable to this course		
<b>5.0</b>	<b>Psychomotor</b>		
5.1	Not applicable to this course		

#### 5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task	Week Due	Proportion of Total Assessment
1.	Assignments		10 %
2.	Quiz 1		3 %
3.	Quiz 2		3 %
4.	Quiz 3		2 %
5.	Mid Term 1		12 %
6.	Mid Term 2		12 %
7.	Lab Performance		8 %
8.	Lab Final		10 %
9.	Final Exam		40 %

#### D. Student Academic Counseling and Support

1.

#### E. Learning Resources

1. List Required Textbooks - Deitel & Deitel Java How to Program, Latest Edition, Prentice Hall
2. List Essential References Materials (Journals, Reports, etc.) - 1. Absolute Java (3rd Edition) Walter J. Savitch (Author) - 2. Thomas WU, An Introduction to Object Oriented Programming with Java, Latest Edition, and McGraw Hill. - 3. Bruce Eckel, Thinking in Java, 2nd Edition, Prentice Hall - 4. Herbert Schildt The Complete Reference, JAVA 2, Latest Edition, McGraw Hill Publishing Company Ltd.

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
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4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
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5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.
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## F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
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2. Computing resources (AV, data show, Smart Board, software, etc.)
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3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)
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## G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching		
Methods	Ways	Plan of Action
2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor		
3. Processes for Improvement of Teaching		
4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)		
5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.		

Teaching Staff : Dr. Addin Osman Mohamed Addin

Signature : \_\_\_\_\_

Date of Report Completed : 15-Jun-2017

Received by : \_\_\_\_\_

Dean/Department Head

Kingdom of Saudi Arabia  
Ministry of Higher Education  
Najran University  
College of Computer Science and  
Information Systems



المملكة العربية السعودية  
وزارة التعليم العالي  
جامعة نجران  
كلية علوم الحاسب ونظم المعلومات

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

