

Adama Science and Technology University

School of Electrical Engineering and Computing

Computer Science and Engineering Program

Course Syllabus

Course Synabus						
Course Title		Object oriented programming (OOP)				
Operation Period				Course Credits	3	
Class Schedule				Code	CSE 2202	
	Target Students' Major	- CSE 1102		Target Grade	2nd Year	
	Prerequisite(s) for enrollment			Capacity (Maximum Number)	50	
	Instructor Information			Office Hour		
				E-Mail		
	TA	Name		E-Mail		
	Course Team			Contact person		
	or SIG			Weekly programs		
	Learning outcome	 Upon completion of this course, students will have the ability to: Learn core Java features such as class and objects, Inheritance, polymorphism, Encapsulation Learn about Object oriented programming Gain an in-depth understanding of Java Programming Able to solve real time problem using Java Learn how to develop Java Programs using Java development 				

		tools like Edit Plus and Eclipse				
_		This intensive hands-on course explores Core Java programming language				
	Course Description	features. Students will be able to take the content learned and immediately apply				
		it to the problems encountered on the job. The course emphasis on Introduction				
		to Java, Class and Object, Inheritance, Package and Interfaces, Exception				
		Handling, File and I/O, GUI and Multi-threading.				
		Parameter	Weight	Remark		
		Attendance				
		Quiz	10%	Course instructors may change the weight and		
	Assessment	Project / Presentation	15%	assessment types		
		Lab Exam	15%			
		Mid exam	25%			
		Final exam	35%			
		Total	100 %			
		Weekly Lect	ure Sched	lule		
	Chapter 1	Introduction: Programming Paradigms, History of Java, Features of Java, C++ vs Java, Java Environment setup, JDK, JRC, JVM				
=	Chapter 2	Object and Class: Class, Object, Datatypes, Variables, Operators, Java Program Structure, SOP Statement, Control Statements,				
		Constructors, Wrapper Class, Naming Convention, Array in java				
		Inheritance: Aggregation, Overloading and Overriding Methods, In boxing				
Major	Chapter 3	and Out boxing Supper and Final Keyword, Polymorphism, Abstract Class				
Topics						
_	Chapter 4	Package and Interface: Interface, Package, Access modifiers, Encapsulation				
-	Chapter 5	Exception Handling: Types of Exception, Hierarchy of Exception Handling, Try-				
		Catch-Final Blocks, User Defined Exceptions				
	Chapter 6	File and I/O: Streams, Hierarchy Chart for byte Streams, File I/O Stream,				
		Date I/O Stream, String Handling and Tokenization				

Chapter 7 GUI: Java Swing, Window Component, Event Driven programming and Event Handling		GUI: Java Swing, Window Component, Event Delegation Model, Event Driven programming and Event Handling
	Chapter 8	Multithreading: Thread, State of a Thread, Thread API, Synchronization, Inter Thread Communication

Course Text Books	 1. "Java: How to Program", P.J. Deitel & H.M Deitel, 9th Edition Pearson Education, 2011. 2. "Java 2: The Complete Reference", Herbert Schildt, 8 th Edition, Tata McGraw Hill, 2011. 		
References in MOOC	www.coursera.org,		
	www.coursera.org https://www.udacity.com		
Related References	http://www.javatpoint.com/java-tutorial		
	https://www.edx.org		
	https://www.tutorialspoint.com/java_technology_tutorials.htm		