

Advanced Programming (OOP in Java), Tentative Schedule

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Week	Date	Subject	Reference	Project Delivery
1	11 Bahman	Course Overview (Syllabus, Grading Policy, ...), Projects Overview	gClass	
	13 Bahman	Programming Paradigms, OO History, Classes and Objects in Real World Classes, Objects, Attributed, Methods	B 1,2,4	
2	18 Bahman	Message Sending, Constructors, Introducing P11 (Public Interface)	B 4,7	
	20 Bahman	More on Constructors, Method and Constructor Overloading	B 4,7	
3	25 Bahman	Introducing P31 (Public Interface), Project Delivery (P11)		P11: gBigNumCALC
	27 Bahman	Inheritance Concepts in Real World and in Code, Introducing P31	B 13	
4	2 Esfand	More on Inheritance, Polymorphism	B 13	
	4 Esfand	Advanced Inheritance and Polymorphism	B 13	
5	9 Esfand	Introducing P12 and P13, Project Delivery (P31)		P31: gPaintPRO
	11 Esfand	Java GUI, Swing, Event-Driven Programming	B 14	
6	16 Esfand	Inheritance and Polymorphism in Java Swing, Project Delivery (P12)	B 14	P12: gPuzzle
	18 Esfand	static attributes, static methods, final attribute, final method...	tPoint	
7	23 Esfand	Project Delivery (P13)		P13: gDuz
	25 Esfand	Introducing P14		
8	15 Farvardin	Recursive Function, Introducing P33	B 15	
	17 Farvardin	More example on Recursion, Project Delivery (P14)	B 15	P14: gMathLab
9	22 Farvardin	Sorting (Quick Sort, Merge Sort)	B 15	
	24 Farvardin	Java Packages, Introducing P2	gClass	
10	29 Farvardin	Object Oriented 3 Layer Programming Concepts, Project Delivery (P33)	gClass	P33: gSortComp
	31 Farvardin	Java Dynamic Memory Allocation, Introducing P32	B 16	
11	5 Ordibehesht	Linked List, Types of Linked List, Java Inner Classes, Java Nested Classes	B 18,19,20	
	7 Ordibehesht	Stack, Queue, Tree, Graph (not Algorithms, focus on Implementation)	B 18,19,20	
12	12 Ordibehesht	Generics In Java	B 17	
	14 Ordibehesht	Generics In Stack, Queue, and Tree with Generic	B 17	
13	19 Ordibehesht	Project Delivery (P2)		P2:gIS
	21 Ordibehesht	Java Collections Overview	tPoint	
14	26 Ordibehesht	Threads, Sleeping Barber Problem, Introducing P34, Project Delivery (P32)	tPoint	P32:gMaze
	28 Ordibehesht	Threads Details	tPoint	
15	2 Khordad	Threads in GUI, Games...	tPoint	
	4 Khordad	Project Delivery (P34)		P34: gBarber
16	9 Khordad 11 Khordad	Final Projects (gDSTools , gGame) Details, Final Exam Policy Description		

B : A COMPREHENSIVE INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING WITH JAVA, C. Thomas Wu

tPoint : <http://www.javatpoint.com/java-tutorial>

gClass : my personal website, gclass.co/?page_id=867