

COURSE INFORMATION

Programming in Java

DPJ5018

2.	Course C	ode									DPJ5	018					
3 .	Type of C										Core	/Major					
4 .		ajor, elective etc.)									The	tuden	ts are	learnii	ng Java programm	ing in a more com	prehensive way
5.	Version											The students are learning Java programming in a more compre Current: June 2017					prenensive way.
3.		e of theSenate's approval	- previou	us and th	ne curren	t appro	val date)				Previous: Senate 182 Dec 2015 New version: ADC Nov 2017 Senate 195 Jan 2018						
6 .	Name(s)	of Academic Staff									Ainee Sama		ni Bal	naman	, Nurul Aini Norda	n, Rashidah Ahma	d, Muhammad Loqma
		and Year Offered										ester 2	Year	2			
	Credit Va Pre-Requ										4 Ohie	≏t_Orie	nted F	Progra	mming		
		of the course in t	he pro	ogram	me:						Cobje	JI-OHE	inteu i	iogia	illillilg		
	To provide	e a good understan	ding o	f obje	ct-orie	nted c	oncep	its in J	ava, G	GUI pro	ogram	ming (Applic	ation &	& Applet) and basi	c knowledge of exc	ception handling.
11 .	This cours	ion for including to se is to equip our sto a, all Android applica	udents	s with	one of	the d	emano		kills tha	at indu	stry ne	eeds a	ıs Java	a is on	e of the top progra	ımming languages	used. Additionally, in
12 .														Oomai	n		Level
	CLO1: Apply object-oriented programming concepts in Java to problems.									ve	Cognitive			/e	3		
	CLO2: Use a Java IDE (Integrated Development Environmen application to compose, compile and debug codes to pexecutable programs.								produ	се	Cognitive			/e	3		
	CLO3: Construct GUI applications and applets using Java GU components.								UI		Cognitive			/e	3		
13	Manning	·	rnina	Outo	nmee (n the	Proc	ramm	ده ا م	rnina (Outco	mee '				ssment.	
10 .											Tutco						
		rse Learning comes (CLO)	Pi	rograi	mme L	earnı	ng Ot	itcom	es (PL	<u>-0)</u>	Teaching Methods				etnods	Assessment Method	
	(Must ta	ılly with CLOs in															
	item 12)		1 1 1 1		Р		Р	Р	Р								
			L	L	L	L	L	L									
							7	-									
	CLO1	✓								Lecture & Lab					Quiz, Midterm Test, Final Exam		
	CLO2 CLO3					\ \ \			Lab Lectu	ab Lab Exercises ecture & Lab Massignment							
	0200													ncy bet	ween the CLO and I		the appropriate relevant
	Total		1					2						ust be OPPA		tandards 2.1.2, 2.2.1	1, and 2.2.2 in Area 2 –
14	Transfera	ble Skills:	<u> </u>								pages	5 70 Q	10 01 0	OFFA	2.0)		
		kill, problem solving	g														
15 .	Distributi	on of Student Lea	rning	Time	(SLT)				1	Teaching and							
											Learning Activities				Guided Learning	Independent Learning	Total SLT
11 .		Course (Conte	nt Ou	tline				**CLO		Guided Learning (F2F)*			ing			
											*L	_	²F)^ *P	*0	(NF2F)*	(NF2F)*	
	1 Intro	oduction to Java E	Enviro	nmen	ts						-	<u> </u>	-				
	Cha	racteristics of Java	, Java	Lang	uage S				CLO1 and		3						
	JDK and IDE, A Simple Java Program, Creating, Compiling and Executing a Java program, Anatomy of the Java								CLO2			2			4	9	
	1	gram.	- 9. 41	.,		0											
	Revision of fundamental programming in Java Primitive Data Types, Operations and Control Structures.								1 and _O2	3		2			4	9	
	3 Methods and Arrays Intro to Methods Passing arguments to a method																
	Intro to Arrays, Processing Array Elements, Passing Arrays to Methods, Copying Arrays, Two-Dimensional									1 and -O2	6		4			8	18
	Arrays, ArrayList class (opt). 4 Object-Oriented: Classes and Objects Classes and Objects, Modifiers, Accessor & Mutator									1 and	6		4			8	18
	methods, Constructors, UML class diagram. 5 Object-Oriented: Inheritance and Polymorphism								_02						-	-	
	Ove	o to Inheritance, cal rriding methods, Pr ining, The Object cl	otecte	d mer	mbers,	Cons	structo	r		1 and -O2	6		4			8	18
	6 Exc	eptions and Error	Hand	lina					CLO	1 and							

CLO1 and

CLO₂

3

2

4

Exceptions and Error Handling
Exceptions Class, Exceptions Type, Exception Handling.

1 . Name of Course 2 . Course Code

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7	Introduction to Graphical User Interface	CLO1,							
	Java Graphics API, GUI Swing components, Container	CLO2 and	3		2		4	9	
	class: Frame, Panel, Canvas. Layout managers.	CLO3							
8	Creating User Interfaces and Event-Driven								
	Programming	CLO1,							
	Component Classes, Button, Label, Text Field, Text Area,	CLO2 and	6		2		7	15	
	Check Boxes, Lists, Combo boxes, Radio Buttons. Event	CLO3							
	handling model, Action events.								
9	Graphics Programming	CLO1, CLO2 and CLO3							
-	Drawing Geometric Figures: Line, Rectangle, Oval, Arc,		3		2		4	9	
	Polygon and Polylines. Colour Class, Font Class.		١		_				
L		CLU3							
10		CLO1,							
	Applet Class, Converting Applications to Applets, Viewing							•	
	Applets from the Applet Viewer Utility and Web Browser,	CLO2 and	3		2		4	9	
	Image and Audio (opt).	CLO3							
							Total SLT	123	
							TOTAL OF 1		
		SUMMATI	VE ASS	SESSM	IENT				
1. Cc	ontinuous Assessment					itage %	Т	otal SLT	
Quiza	Quizzes					5%	3		
Lab F	Exercises			10)%	5			
Assiç	gnment				10)%	8 3		
Midte	erm Test				15	5%			
Innate						inuous Assessment		19	
whate			Total S	SLT fo	r Conti	muous Assessment		10	
whate			Total	SLT fo	r Conti	illuous Assessment			
	nal Assassmant		Total \$					otal SLT	
	nal Assessment		Total		Percen	ntage %	F2F	otal SLT	
2. Fir	nal Assessment			l	Percen	ntage %		Total SLT ILT 16	
2. Fir		Total S		l	Percen	ntage %	F2F	otal SLT	
2. Fir	Exam	Total \$		l	Percen 50 Asses	ntage % O'% sment (F2F + NF2F)	F2F	Total SLT ILT 16 18	
2. Fir Final	Exam			l	Percen 50 Asses	ntage %	F2F	Total SLT ILT 16	
2. Fir Final Gran **Ind	Exam nd Total licate the CLO based on the CLO's numbering in Item 12.		SLT for	r Final	Percen 50 Asses	ortage %	F2F	Total SLT ILT 16 18	
2. Fir Final Gran **Ind	Exam		SLT for	r Final	Percen 50 Asses	ortage %	F2F	Total SLT ILT 16 18	
2. Fir Final Gran **Ind *L= L	nd Total dicate the CLO based on the CLO's numbering in Item 12. Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Fac	ce to Face, N	SLT for	r Final	Percen 50 Asses 10	ortage %	F2F	Total SLT ILT 16 18	
2. Fir Final Gran **Ind *L= L	I Exam Ind Total Ilicate the CLO based on the CLO's numbering in Item 12. Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Factify Special Requirement to Deliver the Course (e.g., software)	ce to Face, N	SLT for	r Final	Percen 50 Asses 10	ortage %	F2F	Total SLT ILT 16 18	
2. Fir Final Gran **Ind *L= L	I Exam Ind Total Idicate the CLO based on the CLO's numbering in Item 12. Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Factify Special Requirement to Deliver the Course (e.g., softwar 8 and NetBeans IDE	ce to Face, N	SLT for	r Final	Percen 50 Asses 10	ortage %	F2F	Total SLT ILT 16 18	
2. Final Final **Ind *L= L Ident JDK 8	I Exam Ind Total Ilicate the CLO based on the CLO's numbering in Item 12. Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Factify Special Requirement to Deliver the Course (e.g., softward and NetBeans IDE in References:	ce to Face, N	SLT for	r Final Non F	Percen 50 Asses 10 Face to	ortage % OW Sment (F2F + NF2F) OW Face tion room):	F2F	Total SLT ILT 16 18	
2. Fir Final Gran **Ind *L= L Ident JDK 6 Main Tony	I Exam Ind Total Ilicate the CLO based on the CLO's numbering in Item 12. Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Factify Special Requirement to Deliver the Course (e.g., software 8 and NetBeans IDE 1 References: Ye Gaddis, Starting Out with Java: From Control Structures through the course of the course	ce to Face, N	SLT for	r Final Non F	Percen 50 Asses 10 Face to	ortage % OW Sment (F2F + NF2F) OW Face tion room):	F2F	Total SLT ILT 16 18	
2. Fir Final Gran **Ind *L= L Ident JDK 8 Main Tony Addit	I Exam Ind Total Ilicate the CLO based on the CLO's numbering in Item 12. Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Factify Special Requirement to Deliver the Course (e.g., software) 8 and NetBeans IDE 9 References: 9 Gaddis, Starting Out with Java: From Control Structures three interesting in the starting of the s	re, nursery, c	SLT for	r Final Non Feer lab,	Percen 50 Asses 10 Face to simula	ortage % O% Sment (F2F + NF2F) O% Face tion room):	F2F	Total SLT ILT 16 18	
2. Fir Final Gran **Ind *L= L Ident JDK i Main Tony Addit Y. Da	I Exam Ind Total Ilicate the CLO based on the CLO's numbering in Item 12. Lecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Factify Special Requirement to Deliver the Course (e.g., software 8 and NetBeans IDE 1 References: Ye Gaddis, Starting Out with Java: From Control Structures through the course of the course	ce to Face, Nore, nursery, cough Objects	SLT for NF2F*= omput , 6th Ec	r Final Non Feer lab,	Percen 50 Asses 10 Face to simula Pearson	partage % O% Sment (F2F + NF2F) O% Face tion room): n, 2015. re Hall, 2014.	F2F	Total SLT ILT 16 18	