

COURSE INFORMATION

1.	Name of Course	Programming in Java
2 .	Course Code	DPJ5018
3 .	Type of Course	Core/Major
	(e.g. : Core, major, elective etc.)	
4 .	Synopsis	The students are learning Java programming in a more comprehensive way.
5.	Version	Current: June 2017
	(State the date of theSenate's approval - previous and the current approval date)	Previous: Senate 182 Dec 2015
6.	Name(s) of Academic Staff	Ainee Suriani Bahaman, Nurul Aini Nordan, Rashidah Ahmad, Muhammad
		Loqman Samat
7.	Semester and Year Offered	Semester 2 Year 2
8 .	Credit Value	4
9.	Pre-Requisite	Object-Oriented Programming
10 .	Objective of the course in the programme:	_
	To provide a good understanding of object-oriented concepts in Java, GULr	programming (Application & Applet) and basic knowledge of exception handling

11 . Justification for including the course in the programme:
This course is to equip our students with one of the demanding skills that industry needs as Java is one of the top programming languages used. Additionally, in this mobile era, all Android applications are written in Java.

14 . Transferable Skills:

Practical skill, problem solving

15 . Distribution of Student Learning Time (SLT)

	Course Content Outline	**CLO	Lea	eachi rning ided l	Activ	ities	Guided Learning (NF2F)*	Independent Learning (NF2F)*	Total SLT
			*L	*T	*P	*0	(NFZF)	(NFZF)	
1	Introduction to Java Environments Characteristics of Java, Java Language Specification, API, JDK and IDE, A Simple Java Program, Creating, Compiling and Executing a Java program, Anatomy of the Java Program.	CLO1 and CLO2	3		2			4	9
2	Revision of fundamental programming in Java Primitive Data Types, Operations and Control Structures.	CLO1 and CLO2	3		2			4	9
3	Methods and Arrays Intro to Methods, Passing arguments to a method, Overloading methods, Scope of Local variables. Intro to Arrays, Processing Array Elements, Passing Arrays to Methods, Copying Arrays, Two-Dimensional Arrays, ArrayList class (opt).	CLO1 and CLO2	6		4			8	18
4	Object-Oriented: Classes and Objects Classes and Objects, Modifiers, Accessor & Mutator methods, Constructors, UML class diagram.	CLO1 and CLO2	6		4			8	18
5	Object-Oriented: Inheritance and Polymorphism Intro to Inheritance, calling superclass constructor, Overriding methods, Protected members, Constructor chaining, The Object class, Intro to Polymorphism	CLO1 and CLO2	6		4			8	18
6	Exceptions and Error Handling Exceptions Class, Exceptions Type, Exception Handling.	CLO1 and CLO2	3		2			4	9
7	Introduction to Graphical User Interface Java Graphics API, GUI Swing components, Container class: Frame, Panel, Canvas. Layout managers.	CLO1, CLO2 and CLO3	3		2			4	9
8	Creating User Interfaces and Event-Driven Programming Component Classes, Button, Label, Text Field, Text Area, Check Boxes, Lists, Combo boxes, Radio Buttons. Event handling model, Action events.	CLO1, CLO2 and CLO3	6		2			7	15
9	Graphics Programming Drawing Geometric Figures: Line, Rectangle, Oval, Arc, Polygon and Polylines. Colour Class, Font Class.	CLO1, CLO2 and CLO3	3		2			4	9
10	Introduction to Applets Applet Class, Converting Applications to Applets, Viewing Applets from the Applet Viewer Utility and Web Browser, Image and Audio (opt).	CLO1, CLO2 and CLO3	3		2			4	9
								Total SLT	123

SUMMATIVE ASSESSMENT

1. Continuous Assessment	Percentage %	To	otal SLT				
Quizzes	15%		3				
Lab Exercises	10%		5				
Assignment	10%		8				
Midterm Test	15%		3				
	Total SLT for Continuous Assessment	19 Total SLT					
2. Final Assessment							
	Percentage %	F2F	ILT				
Final Exam	50%	2	16				
	Total SLT for Final Assessment (F2F + NF2F)	18					
Grand Total **Indicate the CLO based on the CLO's numbering	100%		160				
**Indicate the CLO based on the CLO's numberir *L= Lecture, *T= Tutorial, *P= Practical, *O= Othe	ig in Item 12. rs, F2F*= Face to Face, NF2F*= Non Face to Face		160				
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