

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - AI & ML

Lesson Plan & Work-done Diary for AY: 2026-27, Odd Semester

Course with Code: Object Oriented Programming with Java 1BCS302				Faculty: SUMA H C			Semester &Section:	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1								
1.		An Overview of Java: Object-Oriented Programming (Two Paradigms, Abstraction, The Three OOP Principles), Using Blocks of Code	PPT	1				
2.		Lexical Issues (Whitespace, Identifiers, Literals, Comments, Separators, The Java Keywords).	PPT	1				
3.		Data Types, Variables, and Arrays: The Primitives Types, Variables, Type Conversion and Casting,	PPT	1				
4.		Automatic Type Promotion in Expressions, Arrays	PPT	1				
5.		Operators: Arithmetic Operators, Relational Operators, Boolean Logical Operators	PPT	1				
6.		The Assignment Operator, The? Operator, Operator Precedence, Using Parentheses.	PPT	1				

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7.		Control Statements: Java's Selection Statements (if, The Traditional switch), Iteration Statements (while, do-while, for, The For-Each Version of the for Loop	PPT	1				
8.		Local Variable Type Inference in a for Loop, Nested Loops), Jump Statements (Using break, Using continue, return).	PPT	1				
9.		Previous Year Question Paper Discussion	PPT	1				
10.		Tutorial Class and QUIZ	Hands on	1				

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MODULE-2								
1.		Introducing Classes: Class Fundamentals	PPT	1				
2.		Declaring Objects, Assigning Object Reference Variables	PPT	1				
3.		Introducing Methods, Constructors, the 'this' Keyword, and Garbage Collection	PPT	1				
4.		Methods and Classes: Overloading Methods, Using Objects as Parameters	PPT	1				

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5.		Argument Passing, Returning Objects	PPT	1				
6.		Recursion, Introducing Access Control	PPT	1				
7.		Understanding static, Introducing final	PPT	1				
8.		Introducing Nested and Inner Classes	PPT	1				
9.		Previous Year Question Paper Discussion	PPT	1				
10.		Tutorial Class, QUIZ and IA-1 QP Discussion	Hands on	1				

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MODULE-3								
1.		Inheritance: Inheritance Basics, Using super	PPT	1				
2.		Creating a Multilevel Hierarchy, When Constructors Are Executed	PPT	1				
3.		Method Overriding, Dynamic Method Dispatch	PPT	1				
4.		Using Abstract Classes, Using 'final' with Inheritance	PPT	1				

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5.		Local Variable Type Inference and Inheritance, The Object Class.	PPT	1				
6.		Packages: Packages, Packages and Member Access, Importing Packages	PPT	1				
7.		Interfaces: Interfaces, Default Interface Methods	PPT	1				
8.		Use static Methods in an Interface, Private Interface Methods.	PPT	1				
9.		Previous Year Question Paper Discussion	PPT	1				
10.		Tutorial Class and QUIZ	Hands on	1				

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MODULE-4								
1.		Exceptions: Exception-Handling Fundamentals, Exception Types	PPT	1				
2.		Uncaught Exceptions, Using try and catch	PPT	1				
3.		Multiple catch Clauses, Nested try Statements, throw	PPT	1				
4.		throws, finally, Java's Built-in Exceptions	PPT	1				

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5.		Declaring Variable Length Parameter Declaration Creating Your Own Exception Subclasses, Chained Exceptions and IA-2 QP Discussion	PPT	1				
6.		Multithreaded Programming: The Java Thread Model, The Main Thread	PPT	1				
7.		Creating a Thread, Creating Multiple Threads	PPT	1				
8.		Using isAlive() and join(), Thread Priorities, Obtaining a Thread's State	PPT	1				
9.		Previous Year Question Paper Discussion and IA-3 QP Discussion	PPT	1				
10.		Tutorial Class and QUIZ	Hands on	1				

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MODULE-5								
1.		Enumerations, Type Wrappers and Autoboxing: Enumerations (Enumeration Fundamentals, The values() and valueOf() Methods),	PPT	1				
2.		Type Wrappers (Character, Boolean, The Numeric Type Wrappers)	PPT	1				
3.		Autoboxing (Autoboxing and Methods	PPT	1				
4.		Autoboxing/Unboxing Occurs in Expressions	PPT	1				
5.		Autoboxing/Unboxing Boolean and Character Values).	PPT	1				
6.		Generics: A Simple Generics Example	PPT	1				
7.		A Generic Class with Two Type Parameters	PPT	1				
8.		The General Form of a Generic Class.	PPT	1				

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9.		Previous Year Question Paper Discussion	PPT	1				
10.		Tutorial Class and QUIZ	Hands on	1				
		Activity	Planned	Actual	Remarks			
1		Theory Classes	40					
2		Assignments/ Quizzes/ Self-study	4					
3		Tutorials/Extra classes	5					
4		Internal Assessments	3					
5		ICT based Teaching (% of usage in Curriculum)	100%					
Planning				Execution				
Faculty Signature:				Faculty Signature:				
HoD Signature:				HoD Signature:				