



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING - CYBER SECURITY

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

Course with Code: Object Oriented Programming with Java– 1BCS302					Faculty: Dr. Shwetha G K			Semester : 3 rd	
Module	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		Bridge Course	Chalk & Talk/PPT					
	2		Bridge course-Introduction	Chalk & Talk/ PPT					
	3		An Overview of Java: Object-Oriented Programming (Two Paradigms, Abstraction, The Three OOP Principles)	Chalk & Talk/ PPT					
	4		Using Blocks of Code, Lexical Issues (Whitespace, Identifiers, Literals, Comments, Separators, The Java Keywords).	Chalk & Talk/ PPT					
	5		Data Types, Variables, and Arrays: The Primitive Types (Integers, Floating-Point Types, Characters, Booleans), Variables	Chalk & Talk/ PPT					
	6		Type Conversion and Casting, Automatic Type Promotion in Expressions, Arrays.	Chalk & Talk/ PPT					
	7		Operators: Arithmetic Operators, Relational Operators, Boolean Logical Operators	Chalk & Talk/ PPT					
	8		The Assignment Operator, The ? Operator, Operator Precedence, Using Parentheses	Chalk & Talk/ PPT					
	9		Control Statements: Java's Selection Statements (if, The Traditional switch),	Chalk & Talk/ PPT					
	10		Iteration Statements (while, do-while, for, The For-Each Version of the for Loop, Local Variable Type Inference in a for Loop,Nested Loops)	Chalk & Talk/ PPT					
	11		Jump Statements (Using break, Using continue, return). Revision	Chalk & Talk/ PPT					



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MODULE-2	12		Introducing Classes: Class Fundamentals, Declaring Objects,.	Chalk & Talk/PPT					
	13		Assigning Object Reference	Chalk & Talk/PPT					
	14		Variables, Introducing Methods,	Chalk & Talk/PPT					
	15		Constructors, the 'this' Keyword, and Garbage Collection	Chalk & Talk/PPT					
	16		Methods and Classes: Overloading Methods,	Chalk & Talk/PPT					
	17		Using Objects as Parameters, Argument Passing, Returning Objects,	Chalk & Talk/PPT					
	18		Recursion, Introducing Access Control, Understanding static,	Chalk & Talk/PPT					
	19		Introducing final, Introducing Nested and Inner Classes	Chalk & Talk/PPT					
	20		Revision/Quiz	Chalk & Talk/PPT					





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MODULE-3	21		Inheritance: Inheritance Basics, Using super, Creating a Multilevel Hierarchy	Chalk & Talk/PPT					
	22		When Constructors Are Executed, Method Overriding, Dynamic Method Dispatch	Chalk & Talk/PPT					
	23		Using Abstract Classes, Using `final` with Inheritance	Chalk & Talk/PPT					
	24		Local Variable Type Inference and Inheritance	Chalk & Talk/PPT					
	25		The Object Class.	Chalk & Talk/PPT					
	26		Packages: Packages, Packages and Member Access	Chalk & Talk/PPT					
	27		Importing Packages.	Chalk & Talk/PPT					
	28		Interfaces: Interfaces, Default Interface Methods	Chalk & Talk/PPT					
	29		Use static Methods in an Interface, Private Interface Methods.	Chalk & Talk/PPT					
	30		Revision/Quiz	Chalk & Talk/PPT					





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MODULE-4	31		Exceptions: Exception-Handling Fundamentals,	Chalk & Talk/PPT					
	32		Exception Types, Uncaught Exceptions, Using try and catch,	Chalk & Talk/ PPT					
	33		Multiple catch Clauses, Nested try Statements,	Chalk & Talk/ PPT					
	34		throw, throws, finally, Java's Built-in Exceptions,	Chalk & Talk/ PPT					
	35		Creating Your Own Exception Subclasses, Chained Exceptions	Chalk & Talk/ PPT					
	36		Multithreaded Programming: The Java Thread Model,	Chalk & Talk/ PPT					
	37		The Main Thread, Creating a Thread,	Chalk & Talk/ PPT					
	38		Creating Multiple Threads, Using isAlive() and join(), Thread Priorities,Obtaining a Thread's State	Chalk & Talk/ PPT					
	39		Revision/Quiz	Chalk & Talk/ PPT					



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MODULE-5	40		Enumerations, Type Wrappers and Autoboxing: Enumerations (Enumeration Fundamentals,	Chalk & Talk/PPT					
	41		The values() and valueOf() Methods), Type Wrappers (Character, Boolean, The Numeric Type Wrappers)	Chalk & Talk/ PPT					
	42		Autoboxing (Autoboxing and Methods, Autoboxing/Unboxing Occurs in Expressions)	Chalk & Talk/ PPT					
	43		Autoboxing/Unboxing Boolean and Character Values	Chalk & Talk/ PPT					
	44		Autoboxing/Unboxing Boolean and Character Values	Chalk & Talk/ PPT					
	45		Generics: A Simple Generics Example	Chalk & Talk/ PPT					
	46		A Generic Class with Two Type Parameters	Chalk & Talk/ PPT					
	47		The General Form of a Generic Class.,Revision	Chalk & Talk/ PPT					



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	Activity	Planned	Actual	Remarks
1	Theory Classes	42		
2	Assignments/Quizzes	2		
3	Tutorials/ Extra classes	5		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	50%		
Planning			Execution	
Faculty Signature: Dr. Shwetha G K			Faculty Signature: Dr. Shwetha G K	
HOD Signature:			HOD Signature:	

