



GANDHI SCHOOL OF ENGINEERING

BHABANDHA, BERHAMPUR

SESSION PLAN

3RD SEMESTER, BRANCH-INFORMATION TECHNOLOGY

4OBJECT ORIENTED METHODOLOGY (TH-4)

Name of the Faculty –ER. DEVI PRASAD MISHRA

Topics to be taken				TOPIC NO.	Actually Taken		
SL NO & CHAPTER	No. of Periods assigned by SCTE & VT	Details of the topics	PLANNING DATE		Details of the topics	ACTUAL DATE	Remarks
1 OBJECT ORIENTED PROGRAMMING (OOPS) CONCEPTS	5	OBJECT ORIENTED PROGRAMMING (OOPS) CONCEPTS: 1.1 Programming Languages 1.2 Object Oriented Programming 1.3 OOPS concepts and terminology 1.4 Benefit of OOPS 1.5 Application of OOPS	02-07-2024 TO 18-07-2024	1	OBJECT ORIENTED PROGRAMMING (OOPS) CONCEPTS: INTRODUCTION	02-07-2024	
				1.1	1.1 Programming Languages	04-07-2024	
				1.2	1.2 Object Oriented Programming	09-07-2024	
				1.3	1.3 OOPS concepts and terminology	11-07-2024	
				1.4	1.4 Benefit of OOPS	18-07-2024	
				1.5	1.5 Application of OOPS		
2 INTRODUCTION TO JAVA	10	INTRODUCTION TO JAVA: 2.1 What is Java? 2.2 Execution Model of Java 2.3 The Java Virtual Machine 2.4 A First Java Program 2.5 Variables and Data types 2.6 Primitive Data types & Declarations 2.7 Numeric and Character Literals 2.8 String Literals 2.9 Arrays, Non-Primitive Data types 2.10 Casting and Type Casting 2.11 Widening and Narrowing Conversions 2.12 Operators and Expressions 2.13 Control Flow Statements	22-07-2024 TO 20-08-2024	2	INTRODUCTION TO JAVA:	22-07-2024	
				2.1	2.1 What is Java?		
				2.2	2.2 Execution Model of Java	24-07-2024	
				2.3	2.3 The Java Virtual Machine	24-07-2024	
				2.4	2.4 A First Java Program	29-07-2024	
				2.5	2.5 Variables and Data types	30-07-2024	
				2.6	2.6 Primitive Data types & Declarations	30-07-2024	
				2.7	2.7 Numeric and Character Literals	01-08-2024	
				2.8	2.8 String Literals	01-08-2024	
				2.9	2.9 Arrays, Non-Primitive Data types	05-08-2024	
				2.1	2.10 Casting and Type Casting	07-08-2024	
				2.11	2.11 Widening and Narrowing Conversions	12-08-2024	
				2.12	2.12 Operators and Expressions	14-08-2024	
				2.13	2.13 Control Flow Statements	20-08-2024	

3 OBJECTS AND CLASSES	8	OBJECTS AND CLASSES: 3.1 Concept and Syntax of class 3.2 Defining a Class 3.3 Concept and Syntax of Methods 3.4 Defining Methods 3.5 Creating an Object 3.6 Accessing Class Members 3.7 Instance Data and Class Data 3.8 Constructors 3.9 Access specifiers 3.10 Access Modifiers 3.11 Access Control	21-08-2024 TO 09-09-2024	3	OBJECTS AND CLASSES: INTRODUCTION	21-08-2024	
		3.1		3.1 Concept and Syntax of class	22-08-2024		
		3.2		3.2 Defining a Class	22-08-2024		
		3.3		3.3 Concept and Syntax of Methods	27-08-2024		
		3.4		3.4 Defining Methods	27-08-2024		
		3.5		3.5 Creating an Object	28-08-2024		
		3.6		3.6 Accessing Class Members	29-08-2024		
		3.7		3.7 Instance Data and Class Data	02-09-2024		
		3.8		3.8 Constructors	02-09-2024		
		3.9		3.9 Access specifiers	04-09-2024		
		3.1		3.10 Access Modifiers	04-09-2024		
		3.11		3.11 Access Control	09-09-2024		
4 USING JAVA OBJECTS	6	USING JAVA OBJECTS: 4.1 String Builder and String Buffer 4.2 Methods and Messages 4.3 Parameter Passing 4.4 Comparing and Identifying Objects	10-09-2024 TO 19-09-2024	4	USING JAVA OBJECTS: INTRODUCTION	10-09-2024	
		4.1		4.1 String Builder and String Buffer	11-09-2024		
		4.1		4.1 String Builder and String Buffer	12-09-2024		
		4.2		4.2 Methods and Messages	17-09-2024		
		4.3		4.3 Parameter Passing	18-09-2024		
		4.4		4.4 Comparing and Identifying Objects	19-09-2024		
5 INHERITANCE	8	INHERITANCE: 5.1 Inheritance in Java 5.2 Use of Inheritance 5.3 Types of Inheritance 5.4 Single Inheritance 5.5 Multi-level Inheritance 5.6 Hierarchical Inheritance 5.7 Hybrid Inheritance	24-09-2024 TO 29-10-2024	5	INHERITANCE: INTRODUCTION	24-09-2024	
		5.1		5.1 Inheritance in Java	25-09-2024		
		5.2		5.2 Use of Inheritance	26-09-2024		
		5.3		5.3 Types of Inheritance	01-10-2024		
		5.4		5.4 Single Inheritance	03-10-2024		
		5.5		5.5 Multi-level Inheritance	07-10-2024		
		5.6		5.6 Hierarchical Inheritance	28-10-2024		
		5.7		5.7 Hybrid Inheritance	29-10-2024		
6 POLYMORPHISM	8	POLYMORPHISM: 6.1 Types of Polymorphism 6.2 Method Overloading 6.3 Run time Polymorphism 6.4 Method Overriding	30-10-2024 TO 13-11-2024	6	POLYMORPHISM: INTRODUCTION	30-10-2024	
		6.1		6.1 Types of Polymorphism	04-11-2024		
				Types of Polymorphism	05-11-2024		
		6.2		6.2 Method Overloading	06-11-2024		
				Method Overloading	07-11-2024		
		6.3		6.3 Run time Polymorphism	11-11-2024		
	6.4 Method Overriding	12-11-2024					
		13-11-2024					

7 PACKAGES: PUTTING CLASSES TOGETHER	6	PACKAGES: PUTTING CLASSES TOGETHER: 7.1 Introduction 7.2 Java API Packages 7.3 Using System Packages 7.4 Naming Convention 7.5 Creating Packages 7.6 Accessing a Package 7.7 Using a Package 7.8 Adding a Class to Package 7.9 Hiding Classes 7.10 Static Import	18-11-2024 TO 26-11-2024	7 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 7.1	PACKAGES: PUTTING CLASSES TOGETHER: 7.1 Introduction 7.2 Java API Packages 7.3 Using System Packages 7.4 Naming Convention 7.5 Creating Packages 7.6 Accessing a Package 7.7 Using a Package 7.8 Adding a Class to Package 7.9 Hiding Classes 7.10 Static Import	18-11-2024 18-11-2024 19-11-2024 19-11-2024 20-11-2024 21-11-2024 21-11-2024 25-11-2024 25-11-2024 26-11-2024 26-11-2024	
8 JAVA FILES AND I/O	5	JAVA FILES AND I/O: 8.1 What is a stream 8.2 Reading and writing to files(only txt files 8.3 Input and Output Stream 8.4 Manipulating Input data 8.5 Opening and Closing Streams 8.6 Predefined streams 8.7 File handling Classes and Methods	02-12-2024 TO 09-12-2024	8 8.1 8.2 8.3 8.4 8.5 8.6 8.7	JAVA FILES AND I/O: 8.1 What is a stream 8.2 Reading and writing to files(only txt files 8.3 Input and Output Stream 8.4 Manipulating Input data 8.5 Opening and Closing Streams 8.6 Predefined streams 8.7 File handling Classes and Methods	02-12-2024 02-12-2024 03-12-2024 04-12-2024 04-12-2024 05-12-2024 05-12-2024 09-12-2024	
9 EXCEPTION HANDLING	6	EXCEPTION HANDLING: 9.1 Exceptions Overview 9.2 Exception Keywords 9.3 Catching Exceptions 9.4 Using Finally Statement 9.5 Exception Methods 9.6 Declaring Exceptions 9.7 Defining and throwing exceptions 9.8 Errors and Runtime Exceptions	10-12-2024 TO 16-12-2024	9 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8	EXCEPTION HANDLING: 9.1 Exceptions Overview 9.2 Exception Keywords 9.3 Catching Exceptions 9.4 Using Finally Statement 9.5 Exception Methods 9.6 Declaring Exceptions 9.7 Defining and throwing exceptions 9.8 Errors and Runtime Exceptions	10-12-2024 10-12-2024 11-12-2024 11-12-2024 12-12-2024 12-12-2024 16-12-2024 16-12-2024 16-12-2024	

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