

## LESSONPLAN

Department : CSE		Semester:3 <sup>rd</sup> ,NameofFaculty: SUBASH CH. BALIARSINGH
Subject:TH-4 Object Oriented Methodology (OOM)	No.ofdays/ week Class allotted: 4	EffectiveFromDate:
		No. ofWeek-15
		TopictobeCovered:
Week	ClassDay	Theory
1st	1st	<b>UNIT1:OBJECTORIENTEDPROGRAMMING(OOPS)CONCEPTS</b> 1.1ProgrammingLanguages
	2nd	1.2ObjectOrientedProgramming
	3rd	1.3OOPSconceptsand terminology
	4th	1.4BenefitofOOPS
2 <sup>nd</sup>	1st	1.5ApplicationofOOPS
	2nd	1. DoubtClearingclass 2. Quiz test 3. Assignment
	3rd	<b>UNIT2:INTRODUCTIONTO JAVA</b> 2.1What isJava?
	4th	2.2Execution ModelofJava 2.3The Java VirtualMachine
3 <sup>rd</sup>	1st	2.4A First Java Program 2.5VariablesandDatatypes
	2nd	2.6Primitive Datatypes&Declarations
	3rd	2.7NumericandCharacter Literals 2.8StringLiterals
	4th	2.9Arrays,Non-PrimitiveDatatypes
4 <sup>th</sup>	1st	2.10Castingand Type Casting
	2nd	2.11WideningandNarrowing Conversions
	3rd	2.12OperatorsandExpressions
	4th	2.13ControlFlowStatements
5 <sup>th</sup>	1st	1. DoubtClearingclass 2. Quiz test 3. Assignment
	2nd	<b>UNIT 3:OBJECTSANDCLASSES</b> 3.1ConceptandSyntaxofclass
	3rd	3.2DefiningaClass 3.3ConceptandSyntaxofMethods
	4th	3.4DefiningMethods 3.5CreatinganObject
6 <sup>th</sup>	1st	3.6AccessingClassMembers 3.7InstanceDataandClassData
	2nd	3.8Constructors 3.9Accessspecifiers
	3rd	3.10AccessModifiers 3.11AccessControl

	4th	<b>1. DoubtClearingclass</b> <b>2. Quiz test</b> <b>3. Assignment</b>
7 <sup>th</sup>	1st	<b>UNIT 4:USINGJAVAOBJECTS</b> <b>4.1StringBuilderandStringBuffer</b>
	2nd	<b>4.2MethodsandMessages</b> <b>4.3Parameter Passing</b>
	3rd	<b>4.4ComparingandIdentifyingObjects</b>
	4th	<b>1. DoubtClearingclass</b> <b>2. Quiz test</b> <b>3. Assignment</b>
8 <sup>th</sup>	1st	<b>UNIT 5:INHERITANCE</b> <b>5.1Inheritance inJava</b>
	2nd	<b>5.2UseofInheritance</b> <b>5.3TypesofInheritance</b>
	3rd	<b>5.4SingleInheritance</b>
	4th	<b>5.5Multi-level Inheritance</b>
9 <sup>th</sup>	1st	<b>5.6HierarchicalInheritance</b>
	2nd	<b>5.7HybridInheritance</b>
	3rd	<b>1. DoubtClearingclass</b> <b>2. Quiz test</b> <b>3. Assignment</b>
	4th	<b>UNIT 6:POLYMORPHISM</b> <b>6.1TypesofPolymorphism</b>
10 <sup>th</sup>	1st	<b>6.2MethodOverloading</b>
	2nd	<b>6.3RuntimePolymorphism</b>
	3rd	<b>6.4MethodOverriding</b>
	4th	<b>1. DoubtClearingclass</b> <b>2. Quiz test</b> <b>3. Assignment</b>
11 <sup>th</sup>	1st	<b>UNIT7:PACKAGES:PUTTINGCLASSESTOGETHER</b> <b>7.1Introduction</b>
	2nd	<b>7.2JavaAPI Packages</b> <b>7.3UsingSystem Packages</b>
	3rd	<b>7.4Naming Convention</b> <b>7.5CreatingPackages</b>
	4th	<b>7.6Accessinga Package</b> <b>7.7UsingaPackage</b>
12 <sup>th</sup>	1st	<b>7.8Addinga ClasstoPackage</b> <b>7.9HidingClasses</b>
	2nd	<b>7.10StaticImport</b>
	3rd	<b>1. DoubtClearingclass</b> <b>2. Quiz test</b> <b>3. Assignment</b>
	4th	<b>UNIT 8:JAVAFILESAND I/O</b> <b>8.1What isastream?</b>
13 <sup>th</sup>	1st	<b>8.2Readingandwritingto files(onlytxtfiles</b> <b>8.3Input andOutputStream</b>
	2nd	<b>8.4ManipulatingInput data</b> <b>8.5OpeningandClosingStreams</b>

	<b>3rd</b>	<b>8.6</b> Predefinedstreams <b>8.7</b> FilehandlingClassesandMethods
	<b>4th</b>	<b>1. DoubtClearingclass</b> <b>2. Quiz test</b> <b>3. Assignment</b>
<b>14<sup>th</sup></b>	<b>1st</b>	<b>UNIT9:EXCEPTIONHANDLING</b> <b>9.1</b> ExceptionsOverview
	<b>2nd</b>	<b>9.2</b> Exception Keywords <b>9.3</b> CatchingExceptions
	<b>3rd</b>	<b>9.4</b> UsingFinallyStatement <b>9.5</b> Exception Methods
	<b>4th</b>	<b>9.6</b> DeclaringExceptions <b>9.7</b> Definingandthrowingexceptions
<b>15<sup>th</sup></b>	<b>1st</b>	<b>9.8</b> ErrorsandRuntimeExceptions
	<b>2nd</b>	<b>1. DoubtClearingclass</b> <b>2. Quiz test</b> <b>3. Assignment</b>

Signature of Faculty

**HOD**  
**Senior Lecture, CSE**  
**ASIAN SCHOOL OF TECHNOLOGY,**  
**KHORDHA**