OBJECT ORIENTED PROGRAMMING LAB								
II B. TECH- II SEMESTER – IT/CSIT/CSE								
Course Code	Category	Hours / Week		Credits	Maximum Marks			
	DCC	L	Т	Ρ	С	CIE	SEE	Total
ASITUZ	PCC	-	-	3	1.5	30	70	100
COURSE OUTCOMES:								
1. Implement Object Oriented programming concept using basic syntaxes of control Structures,								
2. Understand the use of different exception handling mechanisms and concept of multithreading								
for robust and efficient application development.								
3. Understand and implement concepts on file streams and operations in java programming for a a						ng for a a		
given applicat 4 Develop java	application programs.							
Driver).								
LIST OF EXPERIMENTS								
WEEK-1	JAVA BASICS							
a. Write a java program that prints all real solutions to the quadratic equation ax <sup>2</sup> +bx+c=0. Read in								
a, b, c and use the quadratic formula.								
are 1 and 1.	Everv subsequent value	is the	sum o	of the tw	<i>ie inst two</i> <i>i</i> o values r	preceding	it. Write	a iava
program that	uses both recursive and	non re	cursive	e functio	ns.			ajara
WEEK-2	ARRAYS							
a. Write a java program to sort given list of integers in ascending order.								
b. Write a java program to multiply two given matrices.								
WEEK-3 STRINGS								
Write a java program to check whether a given string is palindrome.								
WFFK-4	a. Write a java program for sorting a given list of names in ascending order.							
Write a java program to implement method overloading and constructors overloading								
a. Write a java program to implement method overriding.								
WEEK-5	INHERITANCE							
Write a java program to create an abstract class named Shape that contains two integers and an empty								
method named print Area (). Provide three classes named Rectangle, Triangle and Circle such that								
print Area () that prin	its the area of the given s	shape.	Lach			Contains	only the	method
WEEK-6	¥	•	INTE	RFACE	S			
a. Write a progra	am to create interface A i	n this i	interfa	ce we ha	ave two me	thod meth	n1 and m	eth2.
Implements t	nis interface in another cl	ass na	med N	lyClass.				
b. Write a progra	am to give example for m		Inheri	ance in	Java.			
WEEK-7	roada two pumbara Nur						not into	nora tha
vrite a program that reads two numbers Num1 and Num2. If Num1 and Num2 were not integers, the								
Arithmetic Exception Display the exception.								
WEEK-8			I/	<b>O STRE</b>	AMS			
a. Write a java	program that reads a file	name	from	he user	, and then	displays i	informatio	on about
whether the file exists, whether the file is readable, whether the file is writable, the type of file								
and the length of the file in bytes.								
	nogram mat displays the					a words in		J.
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Write a java program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number

WEEK-10		GENERICS				
<ul> <li>a. Write a Java program to swap two different types of data using Generics.</li> <li>b. Write a Java program to find maximum and minimum of two different types of data using Generics.</li> </ul>						
WEEK-11		COLLECTIONS				
Create a linked list of elements.						
а.	a. Delete a given element from the above list.					
b.	Display the contents of the list after deletion					
WEE	K-12	CONNECTING TO DATABASE				
Write a java program that connects to a database using JDBC and does add, delete, modify and retrieve operations.						
TEXT BOOKS:						
1.	P. J. D	Deitel, H. M. Deitel, "Java for Programmers", Pearson Education, PHI, 4 <sup>th</sup> Edition, 2007.				
2.	P. Rad	dha Krishna, "Object Oriented Programming through Java", Universities Press, 2 <sup>nd</sup> Edition,				
	2007					
3.	Bruce	Eckel, "Thinking in Java", Pearson Education, 4 <sup>th</sup> Edition, 2006.				
4.	Sachir	n Malhotra, Saurabh Chaudhary, "Programming in Java", Oxford University Press, 5 <sup>th</sup>				
	Editio	n, 2010.				