TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT) Credit Based Grading Scheme(Revised - 2012) - University of Mumbai



CBGS-2012(R)



TCET/FRM/IP-02/10

Semester Plan	
(Practical / Tutorials / Assignment	)

Semester: III

Laboratory faculty in charge:

Course: S.E IT

Batches: S.E

Subject: Java Programming

Class: S.E IT- A

----

Batch size: 20 Students

Lab. Assistant /Attendant:

(Lab Attendant )

Note: Experiment planned as per University Curriculum

## Basic Experiments:

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date	Remarks
1	<ul> <li>A) Write a Java program to display the default value of all primitive data types in Java.</li> <li>B) Write a Java program that prints all real solutions to the quadratic equation ax2+bx+c = 0. Read in a, b, c and use the quadratic formula. If the discriminate b2-4ac is negative, display a message stating that there are no real solutions.</li> </ul>	24/7 25/7		
2	<ul><li>A) Write a java program to demonstrate String Functions</li><li>B)Write a java program to count number of alphabets, digits, special symbols, blank spaces and words from the given sentence.</li></ul>	31/7 1/8		
3	<ul><li>A)Write a java program to demonstrate Constructors, Parameterized Constructors and Constructor Overloading</li><li>B) Write a java programs to add n strings in a vector array. Input new string and check whether it is present in the vector. If it is present delete it otherwise add it to the vector.</li></ul>	8/8		
Desigr	n/ Development Experiments:			
4	<ul> <li>A) Design following methods to implement menu driven for following tasks.</li> <li>a) To find Factorial of a number</li> <li>b) To find X<sup>Y</sup></li> <li>c) To print n Fibonacci numbers</li> <li>d) To find reverse of number</li> </ul>	14/8 8/8		
5	Design and implement Java Program which organize information of TCET using interface and inheritance	4/9 5/9		
Issued	By: MR	Approved By: P	rincipal	

cet	TCE	
	DEPARTMENT OF INFORMA Credit Based Grading Scheme(Revised CBGS-201	d - 2012) - University of Mumbai
6	PayOutOfBoundsException. Organization does not offer basic salary less than 8000. If entered salary is less than 8000 then program should create an Exception of Type PayOutOfBoundsException. Program should calculate gross salary by considering salary parameters such as DA, HRA, CA, TA Professional tax, TDS, PF etc	$\begin{array}{c c}     e, \\     ee \\     ss \\     ss \\     co \\     d \\     n \\     d \\     ss \\     d \\     d \\     d$
7	<ul><li>A)Write a java program to print first 20 prime numbers and 15 Fibonacci numbers by creating two child threads and also print the total time taken by each thread for the execution.</li><li>B) Write java program to implement the concept of Thread Synchronization</li></ul>	g ne 18/9 19/9
8	A)On Applet: Take a Login and Password from the user and display it on the third Text Field which appears only on clicking OK button and clear both the Text Fields on clicking RESET button Perform same using AWT and Swings as well.	ld d T
9	Write a program to create a window with four text fields for the name, street, city and pincode with suitable labels. Also windows contain a button MyInfo. When the user types the name his street, city and pincode and then clicks the button, the types details must appear in Aria Font with Size 32, Italics.	le a e, 16/10 e 3/10
Group	Learning Activity:	
10	<b>Case Study on:</b> Case study on Socket Programming using Java (TCP&UDP)	16/10 3/10
11	Case Study on: Case study on RMI (Remote Method Invocation)	11/9 12/9
12	Mini Project: GUI for maintaining Telephone Directory.	21/10 21/10
Issued	By: MR	Approved By: Principal



## TCET DEPARTMENT OF INFORMATION TECHNOLOGY (IT)

Credit Based Grading Scheme(Revised - 2012) - University of Mumbai CBGS-2012(R)



Bridge courses Objective: Bridging of gaps with respect to prerequisites and industry skills or to carryout research in that particular field. ( 24 Hrs / Semester / student)

-											
S.No.	Bridge courses/Technology				Duration (Week/hrs)	Duration Modes of (Week/hrs) Learning			Recommended Sources		
1.	Prerequisite course: Programming using C,C++				2 Weeks / 3 Hrs	Self Learning Revision		1. http://www.tuts wing.com/cplus plus-home			
2	<b>Advanced course:</b> Android Programming				12 Weeks / 2 Hrs	eeks / Self- Learning/ Revision			1. https://www.udaci ty.com/course/ne w-android- fundamentals ud851 2. https://www.simpl ilearn.com/mobile -and-software- development/and roid-app- development- training		
The ar	respect to (Total 120 eas are : 1. Rese	student choice	e in the fol e 3. I	llowing ar Multidisc	nds on experie eas. <b>(30 Hrs /</b> :iplinary 4		Stud		with		
S.No	Project Ti	itle/Group Siz	e	Class	Type / Project Hours		Modes of Learning		Reference		
1	Authentication and Access Control			SE	Mini	Mini Project based Learning					
2	XSS Detection in a Web Request and Response			SE	Mini	Project based Learning					
	Planned Completed			Planned	d Completed		Pla	nned	Completed		
No. of Prac	Basic Exp: 03 Design Base Exp: 06 Group Learnin g: 02 Bridge Course:	b: 03 sign se b: 06 bup trnin 02 dge			No. of Tutorial		)				

	ARTMENT							
	redit Based Gra		e(Revised BGS-2012		Univer	sity of Mun	nbai	Estd. 2001
02 Minor Project:								
02 DOSLNE:			DOS		and in	some oth	er dates):	
<ul> <li>Group activities are the student in the constraint of the student in the constraint of the student in the practical plan d in remark column.</li> <li>Learning objective a be mapped at the analysis. Entry for DOSLE (entry for DOSLE).</li> </ul>	ourse. Group acti ate and completior and outcome shall l end of the semest	ivity includes n date shall be be clearly stat er.	: Group pr in compliar ed with eacl	esentation nce. For any n of experim	n, new ( 7 non-co nents/ tu	experiment ompliance rea itorials/ assig	design, mini ason(s) requir Inments and a	projects etc
Name & Signature	e of Faculty	Signa	ature of H	OD	Signa	ture of Pri	ncipal / Dea	an Acaden
Date:		Date:			Date:			
Issued By: MR				Approved	By: P	rincipal		