

Zagdu Singh Charitable "Trust's (Regd.)

THAKUR COLLEGE OF **ENGINEERING & TECHNOLOGY**

(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai*) (Accredited Programmes by National Board of Accreditation, New Delhi**)

A - Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (East), Mumbai - 400 101.

Tel.: 6730 8000 / 8106 / 8107 Fax: 2846 1890

Email: tcet@thakureducation.org
Website: www.tcetmumbai.in • www.thakureducation.org



Revision: A

*Permanent Affiliated UG Programmes: * Computer Engineering * Electronics & Telecommunication Engineering * Information Technology (w.e.f.: A.Y. 2015-16 onwards) **1st time Accredited UG Programmes : * Computer Engineering * Electronics & Telecommunication Engineering * Information Technology

TCET/FRM/IP-02/09

Semester Plan (Theory)

Semester: III Course: IT

Subject: JAVA PROGRAMMING Class: SE-B

Sr · N o	Module No.	Lesson No.	Topics Planned (Technology to be used)	Teaching Aids Required	Planned /Completio n Date	Resource Book Reference	Remarks
1		L1	SOP-Theory	Power point presentat ion,	10/07/17		
				Chalk & Board Power			
2		L2	SOP-Practical	point presentat	11/07/17		
2				ion, Chalk & Board			
2		L3	3 SOP-OBE	Power point presentat	12/07/17		
3				ion, Chalk & Board			
4	1	L1.1	1.1 Overview of procedure and object oriented Programming, Java Designing Goals, Features of Java Language.	Power point presentati on, Chalk & Board	19-7-17	1.1	
4							
	1	L1.2	1.2 Introduction to the principles of object-oriented	Power point presentati on, Chalk & Board	19-7-17	1.1	
5			programming: Classes				
6	1	L1.3	1.3 Keywords, Data types, Variables, Operators, L1.3 Expressions, Types of variables	Power point presentati on, Chalk & Board	25-7-17	1.1	
J			and methods.				
-	1	L1.4	L1.4 Control Statements: If Statement, If-else, Nested if, switch Statement, break, continue. Iteration Statements: for loop, while loop, and do- while loop	Power point presentati on, Chalk & Board	28-7-17	1.1	
7							



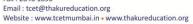
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	** /nd t	ime Accredited UII Proc	grammes : • Computer Engineering • Electronics & Telecommunication En	nineering • Information Jechni	alogy * Electronics Engineering	(3 years w e f · ()1-()/- /() (b)
8	2	L2.1	2.1 Classes & Objects: Class Fundamentals: Assigning Object Reference Variables, Passing parameters to Methods and Returning parameters from the methods, Nested and Inner Classes.	Power point presentati on, Chalk & Board	01-8-17	2.1
9	2	L2.2	2.2 Constructors: Parameterized Constructors, finalize() Method, Method overloading, Constructors overloading, Recursion, Command-Line Arguments.	Power point presentati on, Chalk & Board	04-8-17	2.1
10	2	L2.3	2.3 Wrapper classes, Java.util.Scanner, Java. io.BufferedReader, Java.io.DataInputStream, Java.io.DataOutputStream and String Buffer classes and String functions.	Power point presentati on, Chalk & Board	8-8-17	2.1
11	2	L2.4	2.4 Arrays & Vectors: One Dimensional arrays, Two Dimensional array, Irregular arrays, dynamic arrays, Array List and Array of Object.	Power point presentati on, Chalk & Board	11-8-17	2.1
12	3	L3.1	3.1 Inheritance Basics, , Types of Inheritance in Java, Concept of Super and sub class, inheriting Data members and Methods, Role of Constructors in inheritance, Making methods and classes final, Method	Power point presentati on, Chalk & Board	18-08-17	3.1
13	3	L3.2	overriding, Dynamic Method Dispatch, Abstract classes and methods 3.2 Defining an interface, extending interfaces, implementing interfaces, accessing implementations	Power point presentati on, Chalk	01-09-17	3.1
	3	LU.2	through interface references, Interfaces vs. Abstract classes. 3.3 Packages – Steps for	& Board		3.1
14	3	L3.3	defining, creating and accessing a Package, importing packages, Making JAR Files for Library Packages, java.util.Vector	point presentati on, Chalk & Board	05-09-17	3.1
15	4	L4.1	4.1 Exception handling Mechanism: try, catch, throw, throws and finally.	Power point presentati on, Chalk & Board	08-09-17	4.1
16	4	L4.1	4.2 Multithreading: Need of Multithreading, Java thread Model, thread Life-Cycle,	Power point presentati	12-09-17	4.1



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			thread class Methods, Implementing Runnable, Extending thread, Synchronizing threads, synchronized Statement, Critical Factor in Thread –Deadlock.	on, Chalk & Board			
17	5	L5.1	5.1 Applet: Applet fundamentals, Applet lifecycle, Creating applet,	Power point presentati on, Chalk	15-09-17	5.1, 5.2	
			paint method Applet tag, Applet class methods. 5.2 Designing Graphical User Interfaces in Java, Components and Containers,	& Board Power point presentati			
					19-09-17		
18	5	1			5.1, 5.2		
			in Java, Event- Handling Process, Event- Handling	point presentati	22-09-17		
19	5	L5.3	Mechanism, Delegation Model of Event Handling, Event Classes, Event Sources, Event Listeners, Adapter Classes as Helper Classes in Event Handling.	on, Chalk & Board Power point presentati		5.1, 5.2	
20	6	L6.1	1 Introducing Swing: AWT vs Swings, Components and Containers, Swing Packages, A		26-09-17	6.1	
20	O	LO.1	Simple Swing Application, Painting in Swing	on, Chalk & Board		0.1	
			Designing Swing GUI Application using Buttons, JLabels, Checkboxes,	Power point presentati	03-10-17		
21	6	L6.2	L6.2 Radio Buttons, JScrollPane, JList, JComboBox, Trees, Tables Scroll pane Menus and Toolbars	on, Chalk & Board		6.1	
	1 to 6	L4	Practice session , Discussion on university question papers	Power point presentat ion, Chalk &	06-10-17		
22							
		L5	Doubt solving session	Board	13-10-17		
23	1 to 6		2 cast conving coolidit		10 10 17		
24	1 to 6	L6	Doubt solving session		16-10-17		
- r	0						
		Syllabu	Syllabus Coverage:		ession:	Beyond Syllabus: Software Re- engineering,	



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**Zout time Accredited U.S. Programmes. * Computer Engineering. * Electronics & Telecommunication Engineering. * Information Technology. * Electronics Engineering. (3 years w.e. f - 01-07-2016)

Text Books:

- 1. Herbert Schildt, "Java-The Complete Reference", Seventh Edition, Tata McGraw Hill Publication
- 2. E. Balguruswamy, "Programming with java A primer", Fifth edition, Tata McGraw Hill Publication

Reference Books:

- 1. D.T. Editorial Services, "Java 8 Programming Black Book", Dreamtech Press
- 2. H. M.Deitel, P. J. Deitel, S. E. Santry, "Advanced Java 2 Platform How to Program" Prentice Hall
- 3. Jaime Nino, Frederick A. Hosch, "An introduction to Programming and Object Oriented Design using Java", Wiley Student Edition.
- 4. "Learn to Master JAVA, " Staredu soutions

Digital Reference:

- 3.1 https://www.tutorialspoint.com/java/
- 3.2 https://www.javatpoint.com/java-do-while-loop
- 3.3 nptel.ac.in

-/Sd

Mrs. Hetal Amrutia -/Sd -/Sd

Name & Signature of Faculty

Signature of HOD

Signature of Principal
/Dean (Academics)

Date: Date: Date:

Note:

- 1. Plan date and completion date should be in compliance
- Courses are required to be taught with emphasis on resource book, course file, text books, reference books, digital references etc.
- 3. Planning is to be done for 15 weeks where 1st week will be AOP, 2nd -13th for effective teaching and 14th -15th week for effective university examination oriented teaching, mock practice session and semester consolidation.
- 4. According to university syllabus where lecture of 4 hrs/per week is mentioned minimum 55 hrs and in case of 3 lectures per week minimum 45 lectures are to be engaged are required to be engaged during the semester and therefore accordingly semester planning for delivery of theory lectures shall be planned.
- 5. In order to improve score in NBA, faculty members are also required to focus course teaching beyond university prescribed syllabus and measuring the outcomes w.r.t learning course and programme objectives.
- 6. Text books and reference books are available in syllabus. Here only additional references w.r.t. non –digital/ digital sources can be written (if applicable)
- 7. Technology to be used in class room during lecture shall be written below the topic planned within the bracket.