

COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

Course Code	Course Title	CONTRACTOR OF STREET	emester/ egulation	Branch	Contac Period /Weel	ls A	cademic Year	Date of commencement of Semester		
20IT3T03	Java Programmin	g II	II (R20) IT		6	20	23-2024	07-08-2023		
COURSE (OUTCOMES									
1	Know the cor	ncepts of	OOP and	orientation tov	vards Ja	va progr	amming.			
2	Apply the inh	eritance	and packa	ges in Java.						
3	Implement th	e concep	ts of Exce	ption handling	and Mu	ıltithread	ding.			
4	Getting knowledge of I/O concepts and should be able to read and write data from and to File and Http Client.									
5	Know the cor	ncepts an	d usage of	Collection fra	amework	ζ.				
UNIT	Out Comes / Bloom's Level	Topics No.		Topics/ Activity	1	Text Book/ ference	Contact Hour	Delivery Method		
	CO – 1	1.1		ction to Java: java features		Г1,Т2	1			
		1.2	JDK, JR	E, and JVM		Г1,Т2	1			
I		1.3		structure, and Executing gram		Г1,Т2	1	Chalk		
		1.4	-	ens, Variables,		Г1,Т2	1	& Board		
		1.5	Data type Expressi	es, Operators, ons	7	Γ1,R1	1	Power point		
		1.6	Andrew Annual Control	statements: i , Iterative and atements		Γ1,R1	1	presentation: Assignment		
		1.7	casting	nversion and		Γ1,R1	1	Test		
		1.8	Class de	and objects: claration, objects, metho		Γ1,R1	1			
		1.9	1.9	Constru	ctors: Types of tors: Default a crized	of [Γ1,R1	1		



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	0	1.10	Overloading methods and constructors	T1,R1	1	
		1.11	Garbage collection	T1,T2	1	*
		1.12	Access control	T1,T2	1	
		1.13	static and this keywords	T1,T2	1	
		1.14	Command line arguments,	T1,T2	1	
		1.15	Nested classes	T1,T2	1	
Content beyon	d syllabus	1.16	Unicode System, Java Naming Convention	R2	1	
				otal	16	
		2.1	Inheritance: Extending a class, types of inheritance	T1,R2	1	
		2.2	super keyword, final keyword	T1,R2	1	
		2.3	overriding methods	T1,R2	1	GL II
		2.4	Abstract methods and classes	T1,R2	1	Chalk & Board
п	CO – 2	2.5	Interfaces: Defining an interface, implementing interface	T1,R2	1	Power point
		2.6	Differences between classes and interfaces	T1,R2	1	presentations
		2.7	Variables in interface and extending interfaces	T1,R2	1	Assignment
		2.8	Packages: Java API packages	T1,R2	1	Test
		2.9	Creating and importing packages	T1,R2	1	
		2.10	Importance of CLASSPATH	T1,R2	1	
Content beyond	l syllabus	2.11	Wrapper classes in Java	R1	1	
				Total	11	
		3.1	Exception handling: Exception handling fundamentals	T1,R2	1	
		3.2	exception hierarchy	T1,R2	1	
III	CO-3	3.3	usage of try, catch, throw	T1,R2	1	
	50 5	3.4	throws and finally keywords	T1,R2	1	Chalk
		3.5	built-in and user defined exceptions	T1,R2	1	& Board
		3.6	Multithreading:	T1,R2	1	1



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			Introduction			Power point
		3.7	Differences between multi-threading and multitasking	T1,R2	1	presentations Assignment
		3.8	Creating Threads	T1,R2	1	
		3.9	thread life cycle	T1,T2	1	Test
		3.10	thread methods, thread priorities	T1,T2	1	
		3.11	thread exceptions, thread synchronization	T1,R2	1	
		3.12	Inter thread communication	T1,T2	1	
		3.13	Daemon threads	T1,T2	1	
Content bey	ond syllabus	3.14	Exception Handling with Method Overriding in Java	R2 -	1	
				Total	14	
		4.1	Input / Output Streams: Introduction to java I/O	T1,R2	1	Chalk &
		4.2	Streams	T1,R2	1	Board
		4.3	Buffered Streams	T1,R2	1	
IV	CO – 4	4.4	Readers	T1,R2	1	Power point
		4.5	Reading data from files	T1,R2	1	presentations
		4.6	Writing data to files	T1,R2	1	
		4.7	Http Client	T1,R2	1	Assignment
		4.8	Pipelines	T1,R2	1	
Content bey	ond syllabus	4.9	Java Push back Input Stream Class	R3	1	Test
			Total		9	
		5.1	Collection Framework: Lists	T1,T2	1	
		5.2	Array List & Linked List	T1,T2	1	Chalk
		5.3	Sets – Hash Set & Tree Set	T1,T2	1	& Board
		5.4	Maps – Hash Map & Tree Map	T1,T2	1	Power point presentations
		5.5	Queue	T1,T2	1	presentations
		5.6	Stack	T1,T2	1	Assignment
		5.7	Iterator – List Iterator	T1,T2	1	1 issignment
C	0-5	5.8	Lambda Expressions	T1,T2	1	Test
C	<i>J</i> -3	5.9	Strings: Strings in java	T1,T2	1	Test
23		5.10	Creation of a String and String handling methods	T1,T2	1	



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	5.11	String Builder	T1,T2	1				
	5.12	String Buffer	T1,T2	1				
			Total	12				
	ÇU	MULATIVE PROPOS	SED PERIODS	62				
Text Book	ks:							
S.No	AUTHORS, BOOK T	ITLE, EDITION, PUBL	ISHER, YEAR OF	PUBLIC	CATION			
1	Herbert Schildt: "Jav	a The complete reference	e", 11th Edition, T	ata McG	raw Hill, 2019.			
	E.Balaguruswamy: "Programming with Java A Primer", 5th Edition, Tata McGraw Hill,							
2	2017.							
Reference	Books:							
S.No.	AUTHORS, BOOK T	ITLE, EDITION, PUBL	ISHER, YEAR OF	PUBLIC	CATION			
1	Saurabh Chaudhary a	and Sachin Malhotra, Pr	rogramming in Java	a by, revi	sed 2nd edition,			
	Oxford, 2018.							
2	Dietal, Java: How to	Program, 8/e, PHI, 2018	3.					
3	Dr. R. Nageswara Ra	o, Wiley, Core JAVA:	An integrated appro	ach, Dre	am Tech, 2016			
Web Deta	ils:							
1	https://java.meritcam	pus.com/core-java-topic	e <u>s</u>					
2	https://www.geeksfor	geeks.org/java/						
3	https://www.javatpoi	nt.com/java-tutorial						
4	https://beginnersbook	.com/java-tutorial-for-b	eginners-with-exa	nples/				

		Name	Signature with Date
i.	Faculty	Mr. K.Raja	Kil
ii.	Module Coordinator	Mr. CH. R K Raju	Let.
iii.	Programme Coordinator	Dr. RVVSV Prasad	RUSAMORE

Principal