

### 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		Semester/ legulation	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
20IT3T03	Java Programmi	ng I	II (R20)	CSE-CS	6	2023-2024	07-08-2023
COURSE (	OUTCOMES					1	
1	Know the co	ncepts of	OOP and	orientation tow	vards Java p	rogramming.	
2	Apply the inl						
3	Implement th	ne concep	ots of Exce	ption handling	and Multith	reading.	
4		vledge of					data from and to
5	Know the con	ncepts an	d usage of	Collection fra	mework.		
UNIT	Out Comes / Bloom's Level	Topics No.	1	Topics/ Activity	Text Book Refere	Contact	Delivery Method
		1.1		tion to Java: ava features	T1,T		
		1.2	JDK, JRE	E, and JVM	T1,T	2 1	
		1.3	Program Creating Java prog	and Executing	T1,T2	1	Chalk
		1.4	Java toke Arrays	ns, Variables,	T1,T2	2 1	& Board
		1.5	Data type Expression	s, Operators,	T1,R	1 1	Power point
I	CO – 1	1.6	Control s	statements: , Iterative and	T1,R	1	presentations  Assignment
		1.7	casting	version and	T1,R1	1	Test
-	(*)	1.8	Class decl creating o	bjects, method		1	Test
		1.9	Constructor constructor Parameter constructor		T1,R1	1	



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		1.10	Overloading methods and constructors	T1,R1	1	
	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 l	peyond 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	
		2.4	Abstract methods and classes	T1,R2	1	Chalk &
П	CO-2	2.5	Interfaces: Defining an interface, implementing interface	T1,R2	1	Board 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 be	eyond 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	
Ш	CO-3	3.3	usage of try, catch, throw	T1,R2	1	
***	20-3	3.4	throws and finally keywords	T1,R2	1	Chall
		3.5	built-in and user defined exceptions	T1,R2	1	Chalk & Board
		3.6	Multithreading:	T1,R2	1	Doniu



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			Introduction			Power point
		3.7	Differences between multi-threading and multitasking	T1,R2	1	presentations
		3.8	Creating Threads	T1,R2	1	Assignment
-		3.9	thread life cycle	T1,T2	1	Test
		3.10	thread methods, thread priorities	T1,T2	1	Test
-		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 beyo	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 beyo	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	I
		5.6	Stack	T1,T2	1	Assignment
		5.7	Iterator – List Iterator	T1,T2	1	]
CO	-5	5.8	Lambda Expressions	T1,T2	1	Test
		5.9	Strings: Strings in java	T1,T2	1	1
		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	
		CU	MULATIVE PROPOS	SED PERIODS	62	
Text Bool	ks:					
S.No	AUTHORS,	воок т	ITLE, EDITION, PUBL	ISHER, YEAR OF	PUBLIC	CATION
1	Herbert Schi	ildt: "Java	a The complete reference	ce", 11th Edition, T	ata McG	raw Hill, 2019.
2		wamy: "I	Programming with Java	A Primer", 5th Ed	ition, Ta	ta McGraw Hill,
~	2017.					
Reference	Books:					
S.No.	AUTHORS,	воок т	ITLE, EDITION, PUBL	ISHER, YEAR OF	PUBLIC	CATION
S.No.			ITLE, EDITION, PUBL and Sachin Malhotra, Pr			
S.No.		audhary a				
S.No. 1	Saurabh Cha Oxford, 201	audhary a 8.		rogramming in Java		
1	Saurabh Cha Oxford, 201 Dietal, Java:	audhary a 8. How to l	nd Sachin Malhotra, Pr Program, 8/e, PHI, 2018	rogramming in Java 3.	a by, revi	sed 2nd edition,
2	Saurabh Cha Oxford, 201 Dietal, Java: Dr. R. Nages	audhary a 8. How to l	nd Sachin Malhotra, Pr	rogramming in Java 3.	a by, revi	sed 2nd edition,
2 3	Saurabh Cha Oxford, 201 Dietal, Java: Dr. R. Nages	audhary a 8. How to l swara Rac	nd Sachin Malhotra, Pr Program, 8/e, PHI, 2018	rogramming in Java 3. An integrated appro	a by, revi	sed 2nd edition,
1 2 3 Web Deta	Saurabh Cha Oxford, 201 Dietal, Java: Dr. R. Nages ils: https://java.r	audhary a 8. How to I swara Rac meritcamp	Program, 8/e, PHI, 2018 o, Wiley, Core JAVA: A	rogramming in Java 3. An integrated appro	a by, revi	sed 2nd edition,
1 2 3 Web Deta	Saurabh Cha Oxford, 201 Dietal, Java: Dr. R. Nages ils: https://java.r	audhary a 8. How to l swara Rad meritcamp .geeksfor	Program, 8/e, PHI, 2018 o, Wiley, Core JAVA: A	rogramming in Java 3. An integrated appro	a by, revi	sed 2nd edition,

	V	Name	Signature with Date
i.	Faculty	Mr. K.Raja	K. Fee.
ii.	Module Coordinator	Mr. CH. R K Raju	dot
iii.	Programme Coordinator	Dr. RVVSV Prasad	EDINOUS .

