



# SWARNANDHRA

## COLLEGE OF ENGINEERING & TECHNOLOGY

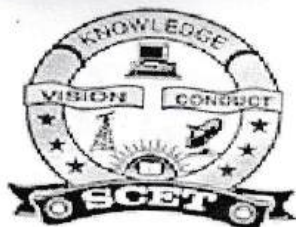
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Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT.,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

### DEPARTMENT OF INFORMATION TECHNOLOGY

### TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
20IT3S01	JAVA PROGRAMMING Lab	III	CSE-CS	3 Periods	2023-24	07-08-2023
<b>COURSE OUTCOMES</b>						
1	Develop solutions for a range of problems using object-oriented programming.					
2	Create Java programs that solve simple business problems.					
Experiment Number	Experiment					Contact Hours
1	Installation of JDK, setting Class path and Executing simple java programs.					3
2	Write a program that displays welcome dear user followed by user name. Accept username from the user.					3
3	Write a JAVA program to search for an element in a given list of elements using binary search mechanism.					3
4	Write a JAVA program that checks whether a given string is a palindrome or not by using command line arguments.					3
5	Write a JAVA program to implement array of objects.					3
6	Write a JAVA program to practice using String class and its methods.					3
7	Write a JAVA program to implement constructor overloading.					3
8	Write a JAVA program implement method overloading.					3
9	Write a JAVA program to implement multilevel inheritance by applying various access controls to its data members and methods.					3
10	Write a JAVA program to create and Manage bank account using inheritance concept.					3
11	Write a JAVA program to implement Interface. What kind of Inheritance can be achieved?					3
12	Write a JAVA program to demonstrate super key word.					3
13	Write a JAVA program to develop a vehicle class hierarchy in Java to demonstrate the concept of polymorphism.					



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14	Write a JAVA program to demonstrate user defined packages.	
15	Write a JAVA program for abstract class to find areas of different shapes.	
16	Write a JAVA program for creation of Java Built-in Exceptions	
17	Write a JAVA program for creation of User Defined Exception.	
18	Write a JAVA program that creates 3 threads by extending Thread class. First thread displays "Good Morning" every 1 sec, the second thread displays "Hello" every 2 seconds and the third displays "Welcome" every 3 seconds. (By implementing Runnable interface).	
19	Write a program to read contents from a file using BufferedInputStream.	
20	Write a program to read contents from a web page using HttpClient and Buffered Reader and write them to a local file using BufferedWriter.	
21	Write a program to read two numbers and one operator from user console and perform the calculation.	
22	Write a JAVA program to get sub list from ArrayList.	
23	Write a JAVA program to iterate all elements of a list in both directions.	
24	Write a JAVA program to add all elements of a list to LinkedList.	
25	Write a JAVA program to implement the basic operations on TreeMap.	
<b>CUMULATIVE PROPOSED PERIODS</b>		<b>36</b>

	Name	Signature with Date
i. Faculty	Mr. K. Raja	<i>K. Raja</i>
ii. Module Coordinator	Mr. Ch.R.K. Raju	<i>Ch.R.K. Raju</i>
iii. Programme Coordinator	Dr. RVSV Prasad	<i>Dr. RVSV Prasad</i>

*[Signature]*  
Principal