



SWARNANDHRA
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(I) & 12(B) of UGC Act 1956.
 Approved by AICTE, New Delhi. Permanent Affiliation to JNTUK, Kakinaada
 Seetharampuram, W.G. DT., Narasapur-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
23CC3102	OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB	III	CSE-CS	3 Periods	2024-2025	30-07-2024

COURSE OUTCOMES

1	Develop solutions for a range of problems using object-oriented programming.
2	Create Java programs that solve simple business problems.

Lab Number	Experiment(s)	Contact Hours
1	a) Write a JAVA program to display default value of all primitive data type of JAVA b) Write a java program that display the roots of a quadratic equation $ax^2+bx=0$. Calculate the discriminant D and basing on value of D, describe the nature of root.	3
2	a) Write a JAVA program to search for an element in a given list of elements using binary search mechanism. b) Write a JAVA program to sort for an element in a given list of elements using bubble sort c) Write a JAVA program using String Buffer to delete, remove character.	3
3	a) Write a JAVA program to implement class mechanism. Create a class, methods and invoke them inside main method. b) Write a JAVA program implement method overloading. c) Write a JAVA program to implement constructor. d) Write a JAVA program to implement constructor overloading.	3
4	Write a JAVA program to implement Single Inheritance b) Write a JAVA program to implement multi level Inheritance c) Write a JAVA program for abstract class to find areas of different shapes	3
5	Write a JAVA program give example for "super" keyword. b) Write a JAVA program to implement Interface. What kind of Inheritance can be achieved? c) Write a JAVA program that implements Runtime polymorphism	3
6	Write a JAVA program that describes exception handling mechanism b) Write a JAVA program Illustrating Multiple catch clauses c) Write a JAVA program for creation of Java Built-in Exceptions. d) Write a JAVA program for creation of User Defined Exception.	6
7	a) Write a JAVA program that creates threads by extending Thread	6

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6	class, First thread display "Good Morning" every 1 sec, the second thread displays "Hello" every 2 seconds and the third display "Welcome" every 3 seconds, Repeat the same by implementing Runnable) b) Write a program illustrating is Alive and join () c) Write a Program illustrating Daemon Threads. d) Write a JAVA program Producer Consumer Problem
8	Write a JAVA program that import and use the user defined packages b) Without writing any code, build a GUI that display text in label and image in an ImageView (use JavaFX) c) Build a Tip Calculator app using several JavaFX components and learn how to respond to user interactions with the GUI
CUMULATIVE PROPOSED PERIODS	
33	

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

Hand
Principal