



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(f) & 12(B) of UGC Act 1956.
 Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinaada
 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
23IT31L02	OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB	III	IT	3 Periods	2024-2025	30-07-2024

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 discriminate 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.	3
7	a) Write a JAVA program that creates threads by extending Thread	6

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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	
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	6
Write a java program that connects to a database using JDBC b) Write a java program to connect to a database using JDBC and insert values into it. c) Write a java program to connect to a database using JDBC and delete values from it	9

CUMULATIVE PROPOSED PERIODS

36

Signature with Date	Name
Mr. K Bhanu Chand	Faculty
Mr. K Raja	Module Coordinator
Dr. RVSV Prasad	Programme Coordinator

Principal