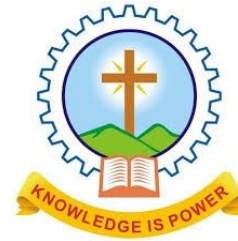


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COURSE DIARY

Subject	20MCA132 - Object Oriented Programming Lab
Batch	CA 2023
Academic Year	2023 -24
Total hours taken	0
Name of Teacher	Prof. Prof. Shinu S Kurian
Designation	Assistant Professor
Department	Computer Applications

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1	SUBJECT PLAN

SUBJECT PLAN

Sl No	Date	Hour	Topic	Module	Method Of Delivery
1	2024-02-27	Hour 5	1. Program to create static and non static methods.	1	Lecture
		Hour 6	2. Define a class 'product' with data members pcode, pname and price. Create three objects of the class and find the product having the lowest price.	2	Lecture
2	2024-02-29	Hour 5	Add complex numbers	3	Lecture
		Hour 6	Read two matrices from the console and perform matrix addition.	4	Lecture
3	2024-03-05	Hour 5	Create a class CPU with attribute price. Create an inner class Processor (no. of cores, manufacturer) and a static nested class RAM (memory, manufacturer). Create an object of CPU and print information of Processor and RAM.	5	Lecture
		Hour 6	Create a class CPU with attribute price. Create an inner class Processor (no. of cores, manufacturer) and a static nested class RAM (memory, manufacturer). Create an object of CPU and print information of Processor and RAM.	5	Lecture
4	2024-03-07	Hour 5	Program to Sort strings.	6	Lecture
		Hour 6	Perform string manipulations	7	Lecture
5	2024-03-14	Hour 5	Create a class Employee having attributes eNo, eName eSalary. Read 'N' employ information and Search for an employee given eNo, using the concept of Array of Objects.	8	Lecture
		Hour 6	Area of different shapes using overloaded functions.	9	Lecture
6	2024-03-21	Hour 5	Create a class 'Person' with data members Name, Gender, Address, Age and a constructor to initialize the data members and another class 'Employee' that inherits the properties of class Person and also contains its own data members like Empid, Company_name, Qualification, Salary and its own constructor. Create another class 'Teacher' that inherits the properties of class Employee and contains its own data members like Subject, Department, Teacherid and contain constructors and methods to display the data members. Use array of objects to display details of N teachers. 10.2 Create classes Student and Sports. Create another class Result inherited from Student and Sports. Display the Academic and Sports score of a student.	10	Lecture
		Hour 6	Create a class 'Person' with data members Name, Gender, Address, Age and a constructor to initialize the data members and another class 'Employee' that inherits the properties of class Person and also contains its own data members like Empid, Company_name, Qualification, Salary and its own constructor. Create another class 'Teacher' that inherits the properties of class Employee and contains its own data members like Subject, Department, Teacherid and contain constructors and methods to display the data members. Use array of objects to display details of N teachers. 10.2 Create classes Student and Sports. Create another class Result inherited from Student and Sports. Display the Academic and Sports score of a student.	10	Lecture
7	2024-03-26	Hour 5	Create an interface having prototypes of functions area() and perimeter(). Create two class Circle and Rectangle which implements the above interface. Create a menu driven program to find area and perimeter of objects.	11	Lecture
		Hour 6	Create an interface having prototypes of functions area() and perimeter(). Create two class Circle and Rectangle which implements the above interface. Create a menu driven program to find area and perimeter of objects.	11	Lecture
8	2024-04-02	Hour 5	Create a Graphics package that has classes and interfaces for figures Rectangle, Triangle, Square and Circle. Test the package by finding the area of these figures.	12	Lecture
		Hour 6	Create a Graphics package that has classes and interfaces for figures Rectangle, Triangle, Square and Circle. Test the package by finding the area of these figures.	12	Lecture
9	2024-04-04	Hour 5	Write a user defined exception class to authenticate the user name and password.	13	Lecture
		Hour 6	Find the average of N positive integers, raising a user defined exception for each negative input.	14	Lecture
10	2024-04-09	Hour 5	Define 2 classes; one for generating Fibonacci numbers and other for displaying even numbers in a given range. Implement using threads. (Runnable Interface).	15	Lecture
		Hour 6	Define 2 classes; one for generating Fibonacci numbers and other for displaying even numbers in a given range. Implement using threads. (Runnable Interface).	15	Lecture

Sl No	Date	Hour	Topic	Module	Method Of Delivery
11	2024-04-11	Hour 5	1. Program to create a generic stack and do the Push and Pop operations. 2. Maintain a list of Strings using ArrayList from collection framework, perform built-in operations.	16	Lecture
		Hour 6	1. Program to create a generic stack and do the Push and Pop operations. 2. Maintain a list of Strings using ArrayList from collection framework, perform built-in operations.	16	Lecture
12	2024-04-16	Hour 5	Program to demonstrate the creation of queue object using the Priority Queue class.	17	Lecture
		Hour 6	Program to demonstrate the creation of queue object using the Priority Queue class.	17	Lecture
13	2024-04-18	Hour 5	1. Program to demonstrate the addition and deletion of elements in deque. 2. Write a Java program to compare two hash set	18	Lecture
		Hour 6	1. Program to demonstrate the addition and deletion of elements in deque. 2. Write a Java program to compare two hash set	18	Lecture
14	2024-04-25	Hour 5	Program to demonstrate the working of Map interface by adding, changing and removing elements.	19	Lecture
		Hour 6	Program to demonstrate the working of Map interface by adding, changing and removing elements.	19	Lecture
15	2024-04-30	Hour 5	Program to find maximum of three numbers using AWT.	20	Lecture
		Hour 6	Implement a simple calculator using AWT components.	21	Lecture
16	2024-05-02	Hour 5	Write a program to write to a file, then read from the file and display the contents on the console. 2. Write a program that reads from a file having integers. Copy even numbers and odd numbers to separate files.	22	Lecture
		Hour 6	Write a program to write to a file, then read from the file and display the contents on the console. 2. Write a program that reads from a file having integers. Copy even numbers and odd numbers to separate files.	22	Lecture
17	2024-05-07	Hour 5	Client Server communication using Socket – TCP/IP	23	Lecture
		Hour 6	Client Server communication using Socket – TCP/IP	23	Lecture