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SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society) (Approved by AICTE, New Delhi & Recognized by UGC under section 2(f) & 12(B)) (Permanently affiliated to JNTUK, Kakinada, Accredited by NBA and NAAC with 'A' Grade) Pedatadepalli, TADEPALLIGUDEM – 534 101.W.G.Dist. (A.P)

Department of Electronics and Communication Engineering

Academic Year: 2023-24

Skill Oriented Course-I

S. No.	SEM & Section	Title	Date (From-to)
1.	III SEM ECE-B & C	Device Interfacing with Arduino	27/11/2023 to 02/12/2023
2.	III SEM ECE-A & ECT	Device Interfacing with Arduino	20/11/2023 to 25/11/2023

Skill Oriented Course-II

S. No.	SEM & Section	Title	Date (From-to)
1.	V ECE- A,B,C and ECT	JAVA Programming	03/09/2023 to 25/09/2023

Skill Oriented Course-III

S. No.	SEM & Section	Title	Date (From-to)
1.	VII SEM ECE-A,B,C	VERBAL	05/06/2023 -14/06/2023

<u>Vision</u>

• To develop the department into a centre of excellence and produce high quality, technically competent and responsible Electronics and communication engineers

- To create a learner centric environment that promotes the intellectual growth of the students.
- To develop linkages with R & D organizations and educational institutions for excellence in teaching, learning and consultancy practices.
- To build the student community with high ethical standards.

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Department of Electronics and Communication Engineering

Device Interfacing with Arduino

DAY 1 - SESSION 1:

- Introduction to Embedded Systems
- Advantages
- Day-to-day applications
- Introduction to IC technology
- Briefing on Microprocessors and Microcontrollers
- Pin description of ATMega328
- Board and Pin description of Arduino Uno
- Installation of Arduino IDE

DAY 1 - SESSION 2:

- Arduino Language reference
- LED blink and fading
- Controlling LEDs with push buttons
- Controlling buzzers with push buttons
- Delay programming

DAY 2 - SESSION 1:

- IR sensor working principle
- Interfacing IR with Arduino
- 7 segment display working principle
- Interfacing 7-segment display with Arduino
- Project 1: Up Counter
- Project 2: Down Counter
- Project 3: Obstacle detector/ Burglar Alarm

DAY 2 - SESSION 2:

- Serial Communication & Serial monitor
- Ultrasonic sensor working principle
- Interfacing ultrasonic sensor with Arduino

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- Project 4: Obstacle detection
- Project 5: Distance measurement

DAY 3 - SESSION 1:

- Liquid Crystal Display working principle & commands
- Interfacing LCD with Arduino
- Project 6: LCD message Display
- Project 7: Scrolling message in LCD

DAY 3 - SESSION 2:

- Temperature sensor working principle
- Humidity sensor working principle
- Interfacing temperature and humidity sensor with Arduino
- Project 8: Local Weather station

DAY 4 - SESSION 1:

- Introduction to actuators & classification
- DC motor working principle
- H-bridge circuit
- Introduction to analog read/write in rain drop sensor
- Interfacing Rain drop sensor
- Project on RAIN SENSING

DAY 4 - SESSION 2:

- LDR Sensor introduction with principal
- Interfacing LDR with Arduino
- Project ON automatic street light
- Introduction to relay and working principal

DAY 5 - SESSION 1:

- Demo on 3D printing
- Introduction to Fritzing
- Downloading part libraries to fritzing
- Project 12: Constructing schematics in Fritzing

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DAY 5 - SESSION 2:

• Challenge 1: Design a schematic for given Project and construct it in fritzing

DAY 6 - SESSION 1:

- Challenge 2: Spot title
- Interactive Activity: Guess the Buzz- Quiz Show on Arduino and other devices

DAY 6 - SESSION 2:

- Event Highlights video presentation
- Feedback
- Certificate Distribution, Vote of Thanks

Hardware Covered:

- Arduino Uno development board
- IR sensor
- Ultrasonic sensor
- DHT11 sensor
- LCD display I2C
- Electromagnetic relay
- LDR SENSOR
- Flame sensor
- LEDs
- Push Buttons
- Potentiometer
- Bread board
- Jumper wires
- Piezo buzzer
- RGB LED

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JAVA Programming

Day-1: Introduction to Java (Start with the Fundamentals)

JAVA BASICS

- Introduction to Java & Its Features
- Java Virtual Machine (JVM)
- Setting Up the JAVA Environment
- Hello World Program in JAVA

VARIABLES AND DATA TYPES

- Variables in Java
- Non Primitive Types
- Wrapper Classes
- Parsing in Java
- Autoboxing and Unboxing
- Swap two Variables
- Type Conversion in Java

INPUT AND OUTPUT IN JAVA

- Output in Java (System.out.print() and System.out.println() and PrintWriter)
- Input in Java (Scanner, BufferedReader, InputStreamReader)
- InputStream and OutputStream
- Escape Sequences in Java

OPERATORS

• Arithmetic, Relational, Logical, Increment and Decrement, Conditional and Bitwise Operators

Java Programming Examples for Practice(Refer Annexure -1)

Day-2: Learn Conditional & Flow Control Statements in Java

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<u>Mission</u>

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FLOW CONTROL

- The Conditional Statements are concerned with several concepts such as *If*, *If- else*, *Nested if-else*, etc.
- switch
- Continue

LOOPS

- While Loop in Java
- For Loop In Java
- ForEach Loop in
- Break In Java
- Continue In Java
- Nested Loop in Java

Java Programming Examples for Practice(Refer Annexure -1)

Day-3: Functions (methods) and Arrays in Java

Functions(methods) in Java

- Methods and applications of Functions
- Prototype or Signature
- Types of Methods
- Command Line Arguments in Java

Arrays in Java

- Array Declaration and Memory Allocation
- Initialization of Array and I/O on Array
- 1D arrays, 2D Arrays and Jagged Arrays

Java Programming Examples for Practice(Refer Annexure -1)

Day-4: Strings in Java

- String Introduction and String Operations
- String Class and Methods
- Mutable String and Immutable String in Java

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Department of Electronics and Communication Engineering

- String Builder and String Buffer and Methods
- Java Programming Examples for Practice(Refer Annexure -1)

Day-5: Classes and Objects in Java (OOP in Java)

- Classes and Objects
- Constructors, This Reference
- Class Members and Access Specifiers, Static Members and Final Keyword
- Inheritance and Types in Java
- Polymorphism, Constructor Over loading, Method Overloading
- Method Overriding and Dynamic Method Dispatch
- Super keyword
- Abstraction in Java
- Interface in Java Interfaces vs Abstract Classes

Java Programming Examples for Practice(Refer Annexure -1)

Day-6: Exception Handling in Java

- Exception Handling
- Types of Exceptions
- Difference Between Error and Exception in Java
- Checked Exception Vs Unchecked Exception In Java
- Java Built In Exceptions Checked Exceptions, Unchecked Exceptions
- Java Programming Examples for Practice(Refer Annexure -1)

Day-7: Multithreading and I/O Streams in Java

- Thread Concept In Java
- The Java Thread Model
- Creation Of Threads In Java
- Java Inter Thread Communication With Example
- Thread Synchronization In Java Using 'Synchronized'
- Java Input Stream Class

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- Java Output Stream Class
- Java File Input Stream
- Java File Output Stream

Java Programming Examples for Practice (Refer Annexure -1)

Day-8: Java Collections

- Java Collections Overview
- Collections Framework
- Array List and Methods
- Linked List and Methods
- Stack and Methods
- Queue and Methods

Java Programming Examples for Practice (Refer Annexure -1)

Day-9: Java Collections

- Hash Map and Methods
- Linked Hash Map and Methods
- Tree Map and Methods
- Hash Set and Methods
- Linked Hash Set and Methods
- Tree Set and Methods

Java Programming Examples for Practice(Refer Annexure -1)

Day-10: Learn about Regular Expressions and File Handling in Java File Handling

- Opening Files for Reading
- Opening Files for Writing and Updating
- Deleting Files

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Regular Expressions in Java

Java Programming Examples for Practice(Refer Annexure -1)

Annexure -1 (Programming Examples for Coding Practice)

Day-1: Programming Examples on Mathematical Logic and Number Theory (Formula based Examples)

- Sum of N Natural Numbers, Find Last Digit of A Number
- Nth term in AP, GP
- Sum of N terms in AP and GP
- Pythagorean Triplet

Day-2: Programming Examples on Control Statements (Few Important models But Not Limited to these)

- Even or Odd, Find Leap Year
- Largest of Three
- Sum of Digits, Count Digits, Table of a Number
- Find Divisors of Number using Different techniques with O(n), O(n/2) and O(sqrt(n)) Time Complexities
- Verify Prime Number using Different Techniques with O(n), O(n/2), O(sqrt(n)) Time Complexities
- Find all Prime Numbers using O(n2), O(n2/2), O(nsqrt(n)) Time Complexities and Sieve method
- Programming examples on Fibonacci Series, Different Types of Series like AP,GP
- Number Palindrome, Strong Number
- Factorial and Find No of Trailing Zeros in Factorial of N
- Programming Examples on Patterns
- Examples using Prime Factorization
- GCD and LCM
- LCM without GCD

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Day-3: Functions and Arrays

- Day-2 examples using Functions
- Check if two arrays(lists) are Identical
- Check if array is sorted
- Count distinct elements, negative and Positive Elements
- Sort array of 0's,1's and 2's
- Find peak Element
- Find GCD of Array of n elements
- Find the largest three distinct elements in an array.
- Find largest and Second largest element in an array.
- Move all zeroes to end of array.
- Rearrange array such that even positioned are greater than odd.
- Kth Smallest Element
- Kth Largest Element
- Left Rotation Array by d
- Right Rotation of Array by d
- Cyclic Rotation of array by one
- Matrix addition and Multiplication
- Matrix Transpose and Inverse
- Whether Two Matrices Identical or Not

Day-4: Programming Examples on Strings in Java (Few Important models But Not Limited to these)

- Count all letters, digits, and special symbols from a given string
- Remove Vowels from a String
- Calculate the sum and average of the digits present in a string
- Reverse a given string
- Reverse words in a given string
- String Palindrome
- Verify Two Strings Anagrams or Not
- Check if given String is Pangram or not

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- Remove special symbols / punctuation from a string
- Removal all characters from a string except integers
- Replace each special symbol with # in the following string
- Arrange string characters such that lowercase letters should come first
- print duplicate characters from a string
- First Unique Character in String
- First Non Repeating Character in String
- Remove Duplicate Characters in String
- find the maximum occurring character in given String
- count the occurrence of a given character in a string
- Given a string, create a new string without vowels and print that string.
- Encryption and Decryption Problems in Strings
- Two Strings Isomorphic or Not

Day-5: Programming Examples on Classes and Objects

(Few Important models But Not Limited to these)

- Programs using Classes and Objects
- Programs using Constructor
- Programs using Constructor Overloading
- Programs using Method Overloading
- Programs using this reference
- Programs using Inheritance
- Programs using Method Overriding
- Programs using super and final keywords
- program to create a class representing a Circle. Include methods to calculate its area and perimeter.
- program to create a person class. Include attributes like name, country and date of birth. Implement a method to determine the person's age.
- program to create a calculator class. Include methods for basic arithmetic operations.
- program to create a class that represents a shape. Include methods to calculate its area and perimeter. Implement subclasses for different shapes like circle, triangle, and square

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Day-6: Programming Examples on Exception Handling (Few Important models But Not Limited to these)

- Program to implement Arithmetic Exception
- Program to implement Array Out Of Bounds Exception
- Program to implement Negative Array Size Exception
- Program to implement Number Format Exception
- Program with Multiple catch blocks

Day-7: Programming Examples on Multithreading (Few Important models But Not Limited to these)

- Multithreading Program using extends Thread
- Multithreading Program using Runnable interface
- Producer and Consumer Problem
- Program to implement Thread Priorities
- Program to print Fibonacci series and reverse series using Multithreading

Day-8 & 9: Programming Examples on Array List, Map and Set(Few Important models But Not Limited to these)

- Find largest, second largest elements in array (list)
- Find smallest, Second Smallest elements in array
- Find Majority element
- Find Maximum occurring element in array of n elements
- Find frequency of elements in array(list)
- Find unique elements in array(list)
- Find duplicate elements in array(list)
- Union of Two sorted arrays(lists)
- Intersection of Two sorted Arrays(lists)
- Find a pair with given sum
- Sort elements by their frequency
- Find number of Distinct Elements in list (Array)

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- Group elements of an array based on their first occurrence
- Find common elements present in all rows of a matrix
- Find the odd occurring element in an array
- Least frequent element in an array
- Finding 2 elements with difference k
- Find Missing number in Array if contains n-1 elements in range 1 to n
- Remove elements in array (list)
- Print Unique Elements in Array
- Maximum and Minimum in a Set
- Remove items from Set
- Check if two lists have at-least one element common
- program to find common elements in three lists using sets
- Find missing and additional values in two lists
- program to find the difference between two lists

Day-10: Programming Examples on File Handling and Regular Expressions (Few Important models But Not Limited to these)

- Display all the lines in a file
- Display all the records in a file "python.txt" along with line/record number
- Count number of lines and number of words in a text.
- Count the words "to" and "the" present in a text file
- Display all the lines in a file which have word "python" in it
- Copy the contents of one file to another
- Count the number of upper-case alphabets present in a text file
- A text file contains alphanumeric text. Write a program that reads this text file and prints only the numbers or digits in the file.
- Accept a filename and prints the file's longest line with its length
- Given a text file car.txt following information of car 'carNo,carname,containing mileage'. Write a python function to display details of all those cars whose mileage is from 100 to 150.
- Check whether a string contains only a certain set of characters (in this case a-z, A-Z and 0-9).
- Program that matches a string that has a p followed by zero or more q's.

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- Program that matches a string that has an *a* followed by one or more b's.
- Find sequences of lowercase letters joined by an underscore.
- Find the sequence of one upper case letter followed by lower case letters.
- Program that matches a string with a 'p' followed by anything ending in 'q'.
- Remove leading zeros from a given IP address.
- Program to check for a number at the end of a string.
- Program to insert a dash (-) between an upper case letter and a lower case letter in a string.
- Program to match a string containing only upper and lowercase letters, numbers, and underscores.

<u>Vision</u>

<u>Mission</u>

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VERBAL

Topics Covered:

- Phonetics
- Intonation
- Speaking Skills
- Reading Comprehension
- Question Forms
- Tenses
- Articles
- Prepositions
- Sentences correction and Construction
- Direct and Indirect Speech
- Modals
- Comprehension Ordering
- Parts of Speech
- Active Voice and Passive Voice
- Idioms and Phrasal Verbs
- Vocabulary
- Resume
- Interview Skills
- 19 Dressing Sense

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