MANONMANIAM SUNDARANAR UNIVERISTY, TIRUNELVELI-12
SYLLABUS
UG - COURSES – AFFILIATED COLLEGES
Course Structure for B. C. A.

(Choice Based Credit System)

(with effect from the academic year 2021-2022 onwards)

		Semester-III		
Part	**Subject Status**	**Subject Title**	**Subject Code**	**Credit**
I	Language	TAMIL/ MALAYALAM/HINDI	C1TL31/ C1MY31/ C1HD31	4
II	Language	ENGLISH	C2EN31	4
III	Core	JAVA PROGRAMMING	CMCA31	4
III	Core	FINANCIAL ACCOUNTING	CMCA32	4
III	Major Practical III	PRACTICAL - JAVA PROGRAMMING LAB	CMCAP3	2
III	Allied – I Paper I	DATA STRUCTURE	CACA31	3
III	Allied Practical I	PRACTICAL - DATA STRUCTURE	CACAP3	2
III	Skill Based	PROGRAMMING WITH PHP AND MYSQL	CSCA31	4
IV	Non-Major Elective I	FUNDEMENTALS OF STATISTICS-I / அறிமுகத்தமிழ்	CNMA32/ CNTL31	2
IV	Common	Yoga	CYOG31	2

Total Marks: 100   Internal Exam: 25 marks + External Exam: 75 marks

A. **Scheme for internal Assessment**:
   Maximum marks for written test: **20 marks**
    3 internal tests, each of **I hour** duration shall be conducted every semester.
   To the average of the **best two** written examinations must be added the marks scored in. The **assignment** for 5 marks.

   The break up for internal assessment shall be:
   Written test- 20 marks; Assignment -5 marks   Total - 25 marks

B. **Scheme of External Examination**
   3 hrs. examination at the end of the semester
   A – Part : 1 mark question two - from each unit
   B – Part : 5 marks question one - from each unit
   C – Part : 8 marks question one - from each unit

➤ **Conversion of Marks into Grade Points and Letter Grades**

S.No	Marks	Letter Grade	Grade point (GP)	Performance
1	90-100	O	10	Outstanding
2	80-89	A+	9	Excellent
3	70-79	A	8	Very Good
4	60-69	B+	7	Good
5	50-59	B	6	Above Average
6	40-49	C	5	Pass
7	0-39	RA	-	Reappear
8	0	AA	-	Absent

➤ **Cumulative Grade Point Average (CGPA)**

$$CGPA = \frac{\Sigma\,(GP \times C)}{\Sigma C}$$

- **GP** = Grade point, **C** = Credit
- CGPA is calculated only for Part-III courses
- CGPA for a semester is awarded on cumulative basis

➤ **Classification**
   a) First Class with Distinction   : CGPA $\geq$ 7.5*****
   b) First Class   : CGPA $\geq$ 6.0
   c) Second Class   : CGPA $\geq$ 5.0 and $<$ 6.0
   d) Third Class   :   CGPA$<$ 5.0

பொதுத்தமிழ்

அலகு-1: செய்யுள்

சிலப்பதிகாரம் முதல் நந்திக் கலம்பகம் வரை

நியூ செஞ்சுரி புக் ஹவுஸ் (பி) லிட்., திருநெல்வேலி – 1

தொலைபேசி எண் : 0462-2323990

அலகு-2: இலக்கணம்

யாப்புஇலக்கணம்

அணி - இலக்கணம்

மொழிபெயர்ப்பு

அலகு-3: உரைநடை

இலக்கிய ஆய்வுத்திறன் தொகுப்பாசிரியர் - முனைவர் கரு.முரகன்

நியூ செஞ்சுரி புக் ஹவுஸ் (பி) லிட்., சென்னை – 50

தொலைபேசி எண் : 044-26251968, 26258410, 48601884

அலகு-4: புதினம்

வேரில் பழுத்த பலா – ஆசிரியர் சு.சமுத்திரம்

அறிவுப் பதிப்பகம் (பி) லிட்., சென்னை -14 தொலைபேசி எண் : 044-28482441

அலகு-5: இலக்கிய வரலாறு

1. ஐம்பெருங்காப்பியங்கள்
2. ஐஞ்சிறு காப்பியங்கள்
3. சிற்றிலக்கியங்களின் தோற்றமும் வளர்ச்சியும் வகைகளும்
   (பிள்ளைத்தமிழ், பரணி, கலம்பகம், உலா)

மேற் பார்வை நூல்கள்

இலக்கணம் : யாப்பருங்கலகாரிகை

இலக்கிய வரலாறு : ஆசிரியர் முனைவர் சி. பாலசுப்பிரமணியன்.

பாவை பப்ளிகேஷன்ஸ் 142இ ஜானி ஜான் கான் சாலை இராயப்பேட்டை

சென்னை – 14 தொலைபேசி எண் : 28482441

முனைவர் பெ. சுயம்பு

பாரதி பதிப்பகம் 113இ இராஜீவ் தெரு திசையன்விளை -57

தொலைபேசி எண் :04637 - 272096

மாணவர்களைக் களஆய்விற்கு அழைத்துச் செல்லலாம்

MALAYALAM

<u>UNIT – 1- Thullal- A Satirical Classical Visual Art Form</u>

തുള്ളല്

തുള്ളല്പ്രസ്ഥാനം – ചരിത്രം – സാമൂഹ്യമാറ്റങ്ങള് - ആക്ഷേപഹാസ്യം – ജനകീയത – പ്രധാനപ്പെട്ട തുള്ളലുകള് - ഇവയുടെ പരിചയം

FOR DETAILED STUDY

1. കുഞ്ചന് നമ്പ്യാര് - ഘോഷയാത്ര
(ദ്വത്തൈതെരസുരസികന്മാരായ്...
        ...പണ്ടക്കോള് പല വിക്രമപൗരുഷമുണ്ടിപ്പോള് മമ കൗരവവീരാ)

<u>UNIT – 2-KADHAKALI- A Classical Visual Art Form</u>

കഥകളി

ചരിത്രം - കാക്കാരിശ്ശി നാടകം – പൊറാട്ട് നാടകം – ചവിട്ടു നാടകം – തെയ്യം – എന്നിവയെ പരിചയപ്പെടുത്തുക – സംസ്കാരം – സാമൂഹ്യപ്രാധാന്യം – പുതിയ കാലത്തെ മാറ്റങ്ങള് - സാങ്കേതിക കാര്യങ്ങള് - അഭിനയരീതികള് - വേഷം

FOR DETAILED STUDY

2. നളചരിതം ആട്ടക്കഥ നാലാം ദിവസം (ഏ. ആര്. രാജരാജവര്മ്മയുടെ
കാന്താരതാരകം) ഉണ്ണായിവാരിയര്
ആദ്യത്തെ ആറു രംഗങ്ങള്

<u>UNIT – 3- Translation of a Sanskrit Drama</u>

നാടകം (സംസ്കൃത നാടക വിവര്ത്തനം)

നാടകവുമായി ബന്ധപ്പെട്ട വിവര്ത്തനചരിത്രം – ആദ്യകാലത്തെ വിവര്ത്തനങ്ങളുടെ പ്രത്യേകതകള് - സംസ്കൃതനാടകവുമായി ബന്ധപ്പെട്ട സങ്കേതങ്ങള് - നാടകാസ്വാദനവുമായി ബന്ധപ്പെട്ട ചുറ്റുപാടുകള് - സാമൂഹ്യാവസ്ഥ – പ്രാധാന്യം

FOR DETAILED STUDY

3. മലയാളശാകുന്തളം – നാലാമങ്കം – വിവര്ത്തനം ഏ. ആര്. രാജരാജവര്മ്മ

<u>UNIT – 4- A Modern Drama in Malayalam</u>

നാടകം (മലയാള നാടകം)

മലയാളനാടകചരിത്രം – പ്രധാനപ്പെട്ട നാടകാചാര്യന്മാര് - ആദ്യകാലത്തെ പ്രവര്ത്തനങ്ങള് - അരങ്ങും നാടകസാഹിത്യവും – പ്രധാനപ്പെട്ട നാടകങ്ങള് - സാമൂഹ്യ മാറ്റങ്ങള് - രാഷ്ട്രീയചരിത്രം – പ്രവര്ത്തനങ്ങള് - നാടകത്തിന്റെ സമകാലികാവസ്ഥ – റേഡിയോ തുടങ്ങിയ മാധ്യമങ്ങള് - പ്രൊഫഷണല് നാടകങ്ങള് - അമേച്വര് നാടകങ്ങള്

FOR DETAILED STUDY

4. സി. എന്. ശ്രീകണ്ഠന്നായര് - കാഞ്ചനസീത
ആദ്യത്തെ രണ്ട് രംഗം

UNIT – 5- Cinema

സിനിമ

സിനിമയുടെ ചരിത്രം – ആദ്യകാലം – ഓരോ ഘട്ടത്തിലെയ്യും വികാസം –
സിനിമാ പഠനം – സിദ്ധാന്തങ്ങള് - മലയാള സിനിമ – ആദ്യകാലത്തെ സിനിമ –
ശബ്ദചിത്രം – നിശ്ശബ്ദചിത്രം – ദൃശ്യഭാഷ – സംവിധാനം – തിരക്കഥയില്
നിന്ന് സിനിമയിലേക്കുള്ള വികാസം

FOR DETAILED STUDY

5. അടൂര് ഗോപാലകൃഷ്ണന് - മതിലുകള്

REFERENCE BOOKS

കേരളീയുടെ കഥ – പ്രൊഫ. എന്. കൃഷ്ണപിള്ള
നളചരിതം ആട്ടക്കഥ – കാന്താരതാരകം – ഏ. ആര്. രാജരാജവര്മ്മ
ഉയരുന്ന യവനിക – സി. ജെ. തോമസ്
മലയാളനാടകസാഹിത്യചരിത്രം – ഡോ. വയലാ വാസുദേവന് പിള്ള
മലയാളനാടകസാഹിത്യചരിത്രം – ജി. ശങ്കരപ്പിള്ള
സിനിമയുടെ വ്യാകരണം – ഡോ. ടി. ജിതേഷ്
തിരക്കഥാരചന – കലയും സിദ്ധാന്തവും – ജോസ്. കെ. മാനുവല്
കഥയും തിരക്കഥയും – ആര്. വി. എം. ദിവാകരന്
നാടോടി വിജ്ഞാനീയം – എം. വി. വിഷ്ണുനമ്പൂതിരി
മലയാള സംഗീതനാടകചരിത്രം – കെ. ശ്രീകുമാര്
ചവിട്ടുനാടകം – സബീനാറാഫി
കേരളത്തിലെ നാടോടി നാടകങ്ങള് – ഡോ. എസ്. കെ. നായര്
ഫോക്ലോര് - രാഘവന് പയ്യനാട്

നാട്ടരങ്ങ് – ജി. ഭാര്ഗവന് പിള്ള
കുഞ്ചന്നമ്പ്യാരും അദ്ദേഹത്തിന്റെ കൃതികളും – വി. എസ്. ശര്മ്മ

HINDI

Objectives:
1. To acquire knowledge regarding fundamental concepts in Hindi grammar.
2. To acquire the ability to master translation skills
3. To develop writing skills for official documentation – Letter, Banking terminologies

C.O. NO	Upon the completion of this course, students will be able to	PSOs Addressed	Cognitive Level
CO 1	In depth knowledge regarding the plays	B,A	K1,K4
CO 2	Identify eminent ancient Hindi poets	B,C	K1,K2
CO 3	Understand the history of Hindi Literature – Adhikal , Bathikal	F,G	K3,K5
CO 4	Understand various aspects of Tourism	C,D	K5
CO 5	Knowledge regarding Journalism	A,C	K4,K5

K1 – Remember, K2 – Understand, K3 – Apply, K4 – Analyse, K5 – Evaluate, K6 – Create

UNIT I

DRAMA

1. Ek Aur Dronachary

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UNIT II

ANCIENT POETRY

1. Kabir Das
2. Soor Das
3. Meera Bhai

UNIT III

HISTORY OF HINDI LITERATURE

1. Aadhikal
2. Bhakthikal

UNIT IV

TOURISM

UNIT V

JOURNALISM

Text book:
1. Ek Aur Dronachary – Shankar Shesh – Published by Kithabhar Praksthan, New Delhi
2. Kavya Ras – Dr. V Bhaskar – Published by Pachori Press, Sadar Bazar, Madurai, UP
3. Hindi Sahithy ka Saral Ithihas – Viswanath Tripathi – Published by Orient Publication Private Limited, Himayath Nagar, Hyderabad

Reference :
1. Hindi Vathayan – Dr. K M Chandra Mohan – Published by Viswavidyalay Prakashan, Varanasi – Page number 40-42
2. Hindi Vathayan – Dr. K M Chandra Mohan – Published by Viswavidyalay Prakashan, Varanasi – Page number 45-51

ENGLISH

COURSE OUTCOMES: At the end of the course students will be able to
PROSE, POETRY, FICTION, GRAMMAR, LANGUAGE STUDY AND ORAL COMMUNICATION SKILLS

UNIT I - PROSE

1. Character is Destiny – Dr Radhakrishnan.
2. How to be a Doctor? – Stephen Leacock.
3. How to win? – Shiv Kera
4. On doing Nothing – J.B.Priestley

UNIT II - POETRY

1. Summer Woods – Sarojini Naidu.
2. Ode to the West Wind – P.B.Shelley.
3. Once upon a Time – Gabriel Okkara
4. Beat Beat drums – Walt Whitman

UNIT III – FICTION

Abridged Version of The Dark Room - R.K.Narayan

UNIT IV – GRAMMAR

1. Reported Speech
2. Rearrange the Jumbled words
3. Verb Patterns and Sentences

UNIT V – LANGUAGE STUDY AND ORAL COMMUNICATION

1. Phonetics – consonants
2. Foreign Words and Phrases
3. Homophones
4. Developing Hints

MAPPING OF COURSE OUTCOMES

S – Strongly correlated, M – Moderately Correlated, w- weakly correlated, No Correlation - 0

JAVA PROGRAMMING

COURSE OBJECTIVES:
- To learn Object Oriented Programming language.
- To learn about Networking and event handling concepts.
- To handle abnormal termination of a program using exception handling.
- To design user Interface using AWT.

COURSE OUTCOMES:
Upon completion of the course, the students should be able:
CO1: To get knowledge of the structure and model of the Java programming language.
CO2: To understand how to design applications with threads in Java.
CO3: To get Knowledge for developing software in the Java programming language.
CO4: To learn how to use exception handling in Java applications.
CO5: To use the Java programming language for various programming technologies.

COURSE OUTLINE:
UNIT – 1 HISTORY, DATA TYPES AND OPERATORS
History & Evolution of Java: Creation of Java – The java Buzz words – An overview of Java Object Oriented Programming. Data types: A closer Look at Literals – Variables – Type conversion and casting – Automatic type promotion in Expressions. Arrays: One Dimensional Array – Multi Dimensional Arrays. Operators: Arithmetic Operators – Bitwise operators – Relational operators – Boolean Logical operators – Assignment operators – Conditional operators–Operator Precedence—Control statements.

UNIT - 2 CLASSES, METHODS AND INHERITANCE AND ABSTRACT CLASS
Class Fundamentals – Declaring objects – Assigning object Reference variables – Introducing Methods – Constructors – This Keyword - Garbage collection. A Closer Look at Methods and Classes: Overloading Methods – Overloading Constructors – Using object as parameters – Returning objects – Recursion – Introducing Access control – understanding static – Introducing final – Nested and Inner classes – String class –String Buffer Class – Using command line arguments. Inheritance: Basics – Using super – creating Multilevel Hierarchy – Method overriding – Dynamic Method Dispatch – Using Abstract class – Using final with inheritance.

UNIT-3 PACKAGES, INTERFACES, EXCEPTION HANDLING AND MULTITHREADING

Packages –Access Protection -Importing packages – Interfaces. Exception Handling: Fundamentals – Exception Types – Uncaught Exceptions – Using try and catch – Multiple catch clauses – Nested try statements – throw- throws- finally – Java's Built – in Exception – creating your own Exception subclasses. Multithreaded Programming: Java Thread Model – Main Thread – Creating a Thread - Creating Multiple Threads–Using is Alive () and join () – Thread priorities – Synchronization – Interthread Communication – Suspending Resuming: and stopping Threads.

UNIT – 4 NETWORKING, APPLETS AND EVENT HANDLING

Networking Basics – Networking Classes and Interfaces – Inet Address – Inet4 Address and Inet6 Address – TCP/IP client Sockets – URL – URL Connection – HTTP URL Connection – Cookies. The Applet Class: An Applet skeleton – Simple Applet Display Methods – Example programs. Event Handling: Two Event handling Mechanisms – Delegation Event Model – Event classes – Sources of Events – Event Listener Interfaces Handling Mouse events – Handling Keyboard events.

UNIT - 5 AWT AND AWT CONTROLS

AWT Classes – Window fundamentals – working with Frame Windows - working with Graphic and color.
Using AWT controls: Controls fundamentals – Labels – using Buttons – Applying check Boxes – Check Box group – Choice controls – Using a Text field – Using a Text Area – Understanding Layout Managers (Flow Layout only) – Menu Bars and Menus.

TEXT BOOK:
1. JAVA - The Complete Reference -Herbert Schildt, Eleventh Edition, Oracle Press, 2019.

REFERENCE BOOKS:
1. Core and Advanced Java Programming – Black Book, Dreamtech Press, 2018
2. Programming with Java - A Primer, E. Balaguruswamy, Sixth Edition, 2016.

FINANCIAL ACCOUNTING

COURSE OBJECTIVES:
- To impart basic accounting knowledge.
- To provide knowledge on the fundamental of financial accounting.
- To expose the student to various financial transaction and its current applications.

COURSE OUTLINE:
UNIT -1 BASIC CONCEPTS OFACCOUNTING
Introduction to Accounting : Need for Accounting –Accounting as the language of business – Attributes and steps of Accounting –Book keeping Vs Accounting – Branches of Accounting – Methods of Accounting – Types of Accounting – Accounting Rules - Bases of Accounting – Accounting terminology. Basic Accounting Concepts: Meaning and classification of Accounting- Accounting Concepts – Accounting Conversion – Accounting equations.

UNIT – 2 JOURNAL AND LEDGER
Recording a Financial Data: Memorandum Book, business transaction, Journal, Rules for Debit and Credit, Compound Journal entry, Advantages of Journal, Ledger, Ledger Account, Ledger Posting, Process of Posting, Balancing of An Account, Significance of Balances, Relation between Journal and Ledger-Subsidiary Books.

UNIT – 3 PREPARING TRIAL BALANCE
Trial Balance: Objects, Methods of Preparing Trial balance, how to locate errors, hints for the preparation of trial balance & problems.

UNIT -4 FINAL ACCOUNTS
Trading account – individual items posted to the debit of trading account – individual items credited to trading account – advantages of trading account – profit & loss account - advantages of profit & loss account- manufacturing account- balance sheet-classification of assets & liabilities.

UNIT – 5 ACCOUNTS FOR NON PROFIT ORGANISATION
Introduction – Final accounts of no trading concern- receipts and payments account – features- income & expenditure account – feature- distinction between the two – treatment of special items – some important adjustments – types of problems – Distinction between income and expenditure account and profit and loss account – accounts of professional men.

COURSE OUTCOMES:

Upon completion of the course, the students should be able:

- To acquire knowledge about general aspects of business operations.
- To explain the concepts and procedures of financial reporting, including income and expenditure statement, balance sheet etc.
- To locate and analyze financial data from annual reports of corporations.

TEXT BOOKS:

1. Financial Accounting - T.S.Reddy, A.Murthy – Margham Publications, 2012.
2. Fundamentals of Advanced Accounting - R.S.N.Pillai, Bagavathi, S.Uma, 5th Edition, S.Chand Publication, 2012.

REFERENCE BOOKS:

1. Essentials of Financial Accounting – Asish K. Bhattacharayya, PHI, 2020.
2. Advanced Accountancy - S.P.Jain and Narang – Kalyani Publications, 2017.

JAVA PROGRAMMING LAB

PRACTICAL LIST
1. Design a class called student with data members name, Roll Number and three subject marks. include methods to assign initial values, find total and average and to display total and average marks .
2. Write a java program to find the area of Square, Rectangle, and Triangle by (a) Overloading Constructor Method (b) Overloading Method
3. Write a java program using Multilevel Inheritance.
4. Write a java program using Overriding Methods
5. Write a java program to create and Implement an Interface.
6. Write a java program to Create and Import Package (Minimum Three Classes)
7. Write a java program to throw the following Exception: (a)Negative Array Size (b) Array Index out of Bounds
8. Write a java program to Create your Own Exception
9. Write a java program to create a thread Using Thread Class.
10. Write a java program Display a Simple Banner Applet.
11. Write a java program using Applet to Design a Web Page
12. Write a java program to illustrate Mouse and keyboard Event Handling.
13. Write a java program to Design a calculator to perform arithmetic operations.
14. Write a java program, which creates a window with a checkbox group with boxes for the colors, violet, indigo, yellow, orange, red, blue and green. When the button is selected the background color must change accordingly.
15. Write a java program to create a file menu with option New, Save and Close, Edit menu with option cut, copy, and paste.

DATA STRUCTURES

COURSE OBJECTIVES:
- To understand different methods of organizing large amounts of data.
- To efficiently implement different data structure.
- To efficiently implement solution for different problems.

COURSE OUTCOMES:
Upon completion of the course, the students should be able:
CO1: An understanding of the basic data structures.

CO2: To describe Data structures like stack, queue, tree and graph.

CO3: An understanding of the basic search and sort algorithms.

CO4: The appropriate use of a particular data structure and algorithm to solve a problem.

COURSE OUTLINE:

UNIT – 1 DATA TYPES INTRODUCTION
Introduction: Pseudo code – The Abstract Data Type – A Model for an Abstract Data Type – Algorithms Efficiency.
Searching: List Searches – Hashed List Searches – Collision Resolution.

UNIT – 2 LINKED LISTS
Linear List Concepts – Linked List Concepts – linked List Algorithms – Processing a Linked List – Complex Linked List Structures.

UNIT – 3 STACKS AND QUEUES
Basic Stacks Operations – Stack Linked List Implementation – Stack Applications – Queue operations – Queue Linked List Design.

UNIT – 4 TREES
Basic Tree Concepts – Binary Tree - Binary Tree Traversals – Expression Trees-General Trees – Binary Search Trees – Heap definition – Heap Structure – Basic Heap Algorithm.

UNIT - 5 INTRODUCTION TO GRAPHS
Sorting And Graphs: General Sort Concepts – Quick sort – External sorts.
Graphs: Terminology - Operations–Graph storage Structure–Networks.

TEXT BOOK:
1. Data Structures a Pseudo Code Approach with C++, Richard F. Gilberg & Behrouz A Forouzan, Brooks/Cole (Thomson Learning) 2001. Chapters: 1,2.1,2.3,2.4,3.1-3.4,3.6,4.1-4.3,5.1,5.2,7.1-7.5,8.1,9.1- 9.5,11.1,11.4 (Quick Sort only) 11.6, 12.1-12.5.

REFERENCE BOOKS:
1. Fundamentals of Data Structures - Eilis Horowitz & Sartaj, Galgotia Publications 2008
2. Data Structures - Seymour Lipschutz, Tata McGrawHill, 2014

DATA STRUCTURES LAB

PRACTICAL LAB
1. Write a C++ program to implement sequential search and Binary search in array.
2. Write a C++ program to implement linked list and perform the following operations

    (a) Add a node as first node. (b) Add a node as last node.
3. Write a C++ program to implement linked list and implement the following Objects.

    (a) Delete the first node. (b) Delete the last node.
4. Write a C++ program to implement a stack linear list perform the push and pop Operations.
5. Write a C++ program to implement binary tree using Linked and

    Perform the following traversal:

    (a) Inorder traversal. (b) Preorder traversal. (c) Postorder traversal.
6. Write a C++ program to implement merge sort.
7. Write a C++ program to implement quick sort.

PROGRAMMING WITH PHP & MYSQL

COURSE OBJECTIVES:
- To understand the concepts of open sources.
- To learn and use open-source database management system MySQL
- To create dynamic web pages and websites.
- To connect webpages with database.

COURSE OUTCOMES:
Upon completion of the course, the students should be able:
CO1: To observe and understand the role, structure, control flow, classes and concepts in PHP and tables in MySQL
CO2: To implement the concepts in PHP and queries in MySQL.
CO3: To analyze functions for data and file handling in PHP and data management in MySQL
CO4: To evaluate the programming concepts in PHP to develop interfaces and manipulate data using MySQL.
CO5: To create applications using PHP and MySQL.

COURSE OUTLINE:

UNIT-1

Introduction: Introduction- Open-source PHP – PHP history- features-variables-statements operators' conditional statements-if-switch-nesting conditions-merging forms with conditional statements-loops-while-do-for – loop iteration with break and continue.

UNIT – 2

Arrays and Functions: Arrays: Creating an array- modifying array-processing array-grouping form with arrays- using array functions- creating user defined functions-using files- sessions cookies- executing external programs – Creating sample applications using PHP.

UNIT – 3

File Handling Opening files using fopen - looping over a files content with feof-reading text from a file using fgets - closing a file- reading character with fgetc-reading whole file with file_get_contents reading a file into an array with file-checking if a file exists- fscan fparse_ini_file- Getting file information with stat-fseek-copying files with copy- deleting files writing to a file-reading and writing binary files – locking files.

UNIT - 4 MySQL:

Effectiveness of MySQL -MySQL Tools-Prerequisites for MySQL connection Databases and tables- MySQL data types-Creating and manipulating tables-Insertion-updation and deletion of rows in tables -Retrieving data- Sorting and filtering retrieved data -Advanced data filtering Data manipulation functions-Aggregate functions -Grouping Data-Subqueries Joining Tables- Set Operators-Full text searching.

UNIT- 5 PHP with MySQL:

Working MySQL with PHP-database connectivity- usage of MYSQL commands in PHP processing result sets of queries- handling errors-debugging and diagnostic functions validating user input through Database layer and Application layer formatting query output with Character- Numeric- Date and time – sample database applications.

Mapping of COs to POs and PSOs :

(L – Low, M – Medium, H – High; K1 – Understand, K2 – Apply, K3 – Analyze, K4 – Evaluate, K5 Create)

TEXT BOOKS
1. VIKRAM VASWANI- ―PHP and MySQL‖- Tata McGraw-Hill- 2005.
2. BEN FORTA – ―MySQL Crash course‖, SAMS- 2006.
3. Steven Holzner – ―The Complete reference PHP‖, Tata McGraw Hill,2008

REFERENCE BOOKS:
1. Tim Converse- Joyce Park and Clark Morgan- ―PHP 5 and MySQL‖ -Wiley India reprint - 2008.
2. Robert Sheldon- Geoff Moes- ―Beginning MySQL‖-Wrox- 2005

FUNDAMENTALS OF STATISTICS-I

Objective:
- To introduce the new concept of Measure of Central Tendency to other major students. Also to study about correlation, regression and to solve simple problems.

Course Content
UNIT–1:
Classification of datas–Bar Diagram–Pie chart.

UNIT–2:
Measures of central tendency: Mean, median, mode (with frequency).

UNIT–3:
Measures of dispersion: Range–standard deviation, Variance–Quartile deviation.

UNIT–4:
Correlation–Rank correlation (Problems only)

UNIT–5:
Regression equations (Problems only)

Text Book:

1. Dr. S. Arumugam, A. Thangapandi Issac- Statistics, New Gamma Publishing House, Palayamkottai.(2016)

Books for Reference:

1. S. P. Gupta - Elementary Statistical Methods, Sultan Chand & Sons, (2017).
2. T. Veerarajan, Fundamentals of mathematical Statistics, Yes Dee Publishing Pvt, Ltd.. (2017)
3. C.B. Gupta and Vijay Gupta, An Introduction to Statistical Methods, Vikas Publishing House Pvt. Ltd. New Delhi –(1973)

அறிமுகத்தமிழ் -தாள் - 1

பொருளடக்கம்

கடவுள் வாழ்த்து

எங்கும் மனிதர் உனைத்தேடி

இரவும் பகலும் அலைகின்றனார்

எங்கும் உள்ளது உன் வடிவாம்

எனினும் குருடர் காண்பாரோ?

எங்கும் எழுவது உன் குரலாம்:

எனினும் செவிடர் கேட்பாரோ?

எங்கும் என்றும் எவ்வுயிரும்

யாவு மான இறையவனே!

-கவிமணி

அலகு - 1 எழுத்துக்கள்

அ) எழுத்துக்களின் அறிமுகம் --பிறப்பிடம்

ஆ) தமிழ் எழுத்துக்களின் எண்ணிக்கை

இ) எழுத்துக்களின் புணர்ச்சி

அலகு:2

அ) சொல்

ஆ) தொடர்

இ) வாக்கியம்

அலகு- 3

அ) வாய்மொழிப் பயிற்சி

ஆ) இனிய சொற்றொடரும், மரபுத் தொடரும்

இ) உவமைகள்

ஈ) பழமொழிகள்

உ) இனிய செய்யுள் வரிகள்

ஊ) பறவை விலங்கினங்களின் ஒலிகள், அவற்றின் இளமைப் பெயர்கள்

எ) மாணவர் ஆசிரியர் உரையாடல்

ஏ) ஒரு பொருள் குறித்துப் பேசுதல்.

அலகு- 4

எண்கள்

நாட்கள்

மாதங்கள்

அலகு- 5

அ) கையெழுத்துப் பயிற்சி கொடுத்தல்

ஆ) சுவரொட்டிகள், துண்டு பிரசுரங்களை வாசித்தல்

இ) படங்களைக் காட்டிப் பெயர் சொல்ல வைத்தல் மற்றும் கருத்துப்படங்களைப் பார்த்து சூழல்களைப் பேச வைத்தல்

ஈ) வாக்கியம் அமைத்தல்

உ) மொழித்திறன் பயிற்சி

ஊ) கையெழுத்துப் பயிற்சி

எ) வாய்மொழிப் பயிற்சி

ஏ) சரியான வாக்கியமாக மாற்றுதல்

ஐ) இனமில்லாதவற்றை எடுத்து எழுதுதல்

ஒ) விடுபட்ட எழுத்துக்களை இணைத்தல்

ஓ) ஏதேனும் ஒரு தலைப்பில் ஐந்து பெயர்களை எழுத வைத்தல் (வினாவுக்குரிய விடையளித்தல்)

ஔ) தன் விவரப்பட்டியல் தயாரித்தல்