MANONMANIAM SUNDARANAR UNIVERISTY,
TIRUNELVELI-12

SYLLABUS

UG - COURSES – AFFILIATED COLLEGES

Course Structure for BCA
(Choice Based Credit System)
(with effect from the academic year 2024-2025 onwards)

Semester-II				
Part	**Subject Status**	**Subject Title**	**Subject Code**	**Credit**
I	LANGUAGE	TAMIL/MALAYALAM/HINDI	F1TL21/ F1MY21/ F1HD21	3
II	ENGLISH	ENGLISH	F2EN21	3
III	CORE	OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++	FCCA21	5
III	CORE	C++ PROGRAMMING LAB	FCCAP2	5
III	ELECTIVE	DIGITAL LOGIC FUNDAMENTALS/ OPTIMIZATION TECHNIQUES	FECA21/ FECA22	3
IV	SEC 1	WEB DESIGNING	FSCA21	1
IV	SEC 1	HTML LAB	FSCAP2	1
IV		NAAN MUDHALVAN		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)**

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

- **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

PART I – TAMIL

பொதுத்தமிழ் 2

தமிழ் இலக்கிய வரலாறு 2

அலகு 1: தமிழ் இலக்கிய, இலக்கண வரலாறு அறிமுகம்.

1. சிற்றிலக்கியம்: குறவஞ்சி, கலம்பம், உலா, பரணி, பள்ளு, பிள்ளைத்தமிழ், தூது, அந்தாதி.
2. தனிப்பாடல் அறிமுகம்
3. இக்கால இலக்கியம்: கவிதை, சிறுகதை, நாடகம், உரைநடை, திராவிட இயக்கம் வளர்த்த தமிழ்

அலகு 2 சிற்றிலக்கியமும், தனிப்பாடலும்

சிற்றிலக்கியம்:

1. கலிங்கத்து பரணி-விருந்தினரும் வரியவரு நெருங்கி யுண்ணரும் - முதல் - கேட்பாரைக் காண்மின் காண்மின் - வரை
2. திருக்குற்றாலக் குறவஞ்சி - வானரங்கள் கனிகொடுத்து
3. முக்கூடற் பள்ளு - ஆற்று வெள்ளம் நாளை வரத்
4. அபிராமி அந்தாதி - கலையாத கல்வியும் குறையாத வயதும் (பதினாறு செல்வங்கள்)
5. திருவரங்கக் கலம்பம் - மறம் - பிள்ளைப் பெருமாள் ஐயங்கார்-பேசவந்த தூத செல்லரித்த ஓலை சொல்லுமோ
6. தமிழ்விடு தூது முதல் பத்து கண்ணிகள்

தனிப்பாடல்

1. வான்குருவி யின்கூடு - ஔவையார்
2. ஆமணக்குக்கும் யானைக்கும் சிலேடை: முதிருக்கும் கொம்பசைக்கும் மூரித்தண்டே-காளமேகப் புலவர்
3. இம்பார் வான் எல்லை இராமனையே பாடி - வீரராகவர்
4. நாராய் நாராய் முத்தப் புலவர்

அலகு 3 இக்கால இலக்கியம் - 1

1. பாரதியார் பாரத சமுதாயம் வாழ்கவே
2. பாரதிதாசன் - சிறுத்தையே வெளியில் வா
3. நாமக்கல் கவிஞர் - கத்தியின்றி
4. தமிழ் ஒளி - மீன்கள் (அந்தி நிலா பார்க்க வா)
5. ஈரோடு தமிழன்பன் - எட்டாவது சீர் (வணக்கம் வள்ளுவ)

சிறுகதைகள்

1. புதுமைப்பித்தன் - கடிதம்
2. ஜெயகாந்தன் - வாய்ச் சொற்கள் (மாலை மயக்கம் தொகுப்பு)
3. ஆர். சூடாமணி - அந்நியர்கள்

உரைநடை :

1. மு. வ கடிதங்கள் - தம்பிக்கு நூலில் முதல் இரண்டு கடிதங்கள்

அலகு 4 இக்கால இலக்கியம் 2

1. தந்தை பெரியார் - திருக்குறள் (மாநாட்டு) உரை
2. பேரறிஞர் அண்ணா - இரண்டாம் உலகத் தமிழ் மாநாட்டு உரை
3. கலைஞர் மு. கருணாநிதி - தொல்காப்பிய பூங்கா-எழுத்து-முதல் நூற்பா கட்டுரை

நாடகம் /திரைத்தமிழ்:

1. வேலைக்காரி - திரைப்படம்
2. ராஜா ராணி - சாக்ரடீஸ் - ஓரங்க நாடகம்

இதழியல் தமிழ்:

முரசொலி கடிதம்

1. செம்மொழி வரலாற்றில் சில செப்பேடுகள்

அலகு 5 மொழிப் பயிற்சி

சொல் வேறுபாடு / பிழை தவிர்த்தல்

வாசிப்பது - வாசிப்பாளர்

சுவர் - சுவரில்

வயிறு - வயிற்றல்

கோயில் - கோவில்

கரறுப்பு - கருப்பு

இயக்குநர் - இயக்குனர்

சில்லறை - சில்லரை

முறித்தல் - முரித்தல்

மனம் - மனசு - மனது

அருகில் - அருகாமையில்

அக்கரை - அக்கறை

மங்கலம் - மங்களம்

பயிற்சி:

1. பிழையான சொற்களை ஒரு பத்தியில் கொடுத்து அந்தந்தப் பிழையான சொற்களைச் சரியாக எழுதச் செய்தல்
2. சிறிய பத்தி ஒன்றை ஆங்கிலத்தில் கொடுத்து அதனைத் தமிழில் மொழிபெயர்க்க வைத்தல்

Text Books:

1. பிழையான சொற்களைச் சரியாக எழுதச் செய்தல்
2. சிறிய பத்தி ஒன்றை ஆங்கிலத்தில் கொடுத்து அதனைத் தமிழில் மொழிபெயர்க்க வைத்தல்

Reference Books:

- மு. வரதராசன், தமிழ் இலக்கிய வரலாறு, சாகித்ய அக்காதமி, புதுடெல்லி
- மது. ச. விமலானந்தன், தமிழ் இலக்கிய வரலாறு, மீனாட்சி புத்தக நிலையம், மதுரை.
- தமிழண்ணல், புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சி புத்தக நிலையம், மதுரை;.
- தமிழ் இளகிய வரலாறு - முனைவர் சிற்பி பாலசுப்ரமணியன், முனைவர்.சொ. சேதுபதி
- புதி யதமிழ் இலக்கிய வரலாறு - முனைவர் சிற்பி பாலசுப்ரமணியன, நீல. பத்மநாபன்

Web Sources:

- இணைய தமிழ் நூலகம் - சென்னை நூலகம் - Online Tamil Library - ChennaiLibrary.com
- முகப்பு - சிறுகதைகள் (sirukathaigal.com)
- www.tamilvirtualuniversity.org
- Buy tamil books online 10% to 50% discount, Tamil Novels, Tamil Audio Books online - Buy tamil books online - Established 2010 (noolulagam.com)
- www.katuraitamilblogspot.com

MALAYALAM
PAPER- II Office Communication Malayalam

Learning Objectives

- To give compressive view of communication and its scope and importance in official communication and business communication
- To recall the official writing styles
- To understand different kinds of letter drafting
- To Generalize office keeping and data management
- To differentiate the structural and content variations both official and non-official communication
- To compare the different style of letters based on domains
- To Conceptualize the different trends in computer network and social media

UNITS I

This unit introduces basic communication skills in Malayalam. Salutation, Discourse markers, formal and informal communication strategies, principles of communication, reading and analysis are also introduced

Language-oral and written-importance of languages-formal and informal – communication style in written communication-principles of written communication

Text-messages-Email-letter drafting- different types of letter drafting personal letters--Business letters Official letters—letter to the editor memorandums- Bio data-Reports-press conference-business proposal

UNIT II

This unit introduces - word processing and Editing text Auto correct spell check & grammar check, undo & redo Text formatting Changing case, drop caps, coloring & highlighting text, adding special characters, bullets & numbering

Document formation compositional and typographical ways. Advanced page layout in word Borders, box, shading, page fills & back ground Module and Table & columns Creating tables Inserting tables from the menu & tool bar, drawing tables Manipulating tables Selecting tables elements, inserting & deleting columns & rows, adjusting table properties, are introduced . This unit introduces the Printing word documents Using print preview. Practical knowledge in different fonts and Unicode

UNIT III

This Unit Introduces blog writing, technical writing, content editing, Proof reading, news making, advertisement writing (Writing for career)

UNIT IV

Official language- Malayalam

Detailed study-

1. Malayalam nammude mathru bhasha.- Bharana bhasha prasnangal- M.V.Thomas,State Institute of languages.
2. Bharanam janakeeya bhashayil- Bharana bhasha prasnangal M.V.Thomas-State Institute of languages
3. Deseeyodgrathanam pradesika bhashakaliloode -Bharana bhasha prasnangal M.V.Thomas,State Institute of languages
4. Bhasha samraajyam srishtikkum--- Bhashayum bharanabhashayum Dr.Ezhumattoor Raja raja Varmma ,State Institute of languages
5. Swathanthryathinte Kodiyadayalam- Bhashayum bharanabhashayum Dr.Ezhumattoor Raja raja Varmma, State Institute of languages
6. Bharanaghatana vyavasthakal- Bhashayum bharanabhashayum- Dr.Ezhumattoor Rajaraja Varmma, State Institute of languages
7. Malayala dinaghoshavum Bharanabhashavaraghoshavum Bhashayum bharanabhashayum-Dr.Ezhumattoor Rajaraja Varmma, State Institute of languages

UNIT V

This unit introduces Malayalam for Competitive Exams. Reading comprehension, reasoning , inferential comprehension, analogical creations(Competitive Malayalam) Malayalam for language Specific Exams for writing UPSC, PSC exams

Reading List (Print and Online)

1. Bharana bhasha prasnangal- M.V.Thomas-State Institute of languages
2. Business Communication for Success: Publisher: University of Minnesota Libraries Publishing
3. Vanijyaparamaya kathidapadukal,G.R.Pilla .State Institute of languages
4. Bhashayum bharanabhashayum-Dr.Ezhumattoor Rajaraja Varmma,

HINDI
Kahani, Ekanki aur Vyakran

Course Objectives

The Main Objectives of this course are to:

- Introduction to Hindi fiction
- Teaching of social values through stories and skits
- Practical application of grammar

Unit I

Hindi Katha-Sahitya: Parichay

- Kahani ke Tatva
- Hindi ke Pramukh kahanikaro ka Parichay
- Ekanki ke Tattva
- Hindi ke Pramukh Ekankikaro ka Parichay

Unit II

Hindi Kahaniya

- Premchand – Bade Ghar ki Beti
- Malathi Joshi – Vo Tera Ghar Yah Mera Ghar
- Pita - Gyanranjan

Unit III

Hindi Ekanki

- Lakshmi ka Swagat – Upendranath Ashk
- Vibhajan – Vishnu Prabhakar
- Maa Baap – Sri Vishnu

Unit IV

Vyakaran

- Kriya Visheshan
- Sambandh Bodhak
- Samuchay Bodhak
- Vismayadi Bodhak aadi shabdo ka prayog

Unit V

Pratiyogi Pariksha par aadharit Nimnalikhit Vishayo se sambandhit Prashikshan Karya

- Tamil Bhasha: Mahakavi Bharatiyar
- Sanket Vikas dwara Lekhan kala aur Kahani Lekhan ka Vikas
- Gadyansh dekhkar sahi Shirshak chunna
- Pathit Vyakaran par aadharit Vakya rachna
- Vibhinna Pratiyogi parikshao ke bare mein suchna pradan dena

Reference Books

1. Aath Ekanki Natak – Ed. Dr. Ramkumar Verma
2. Das Ekanki

Related Online Contents (MOOCs, SWAYAM, NPTEL, YouTube, Websites, etc.)

1. Lokpriya Kahaniya: https://www.hindwi.org/sangrahaalay/100-best-storiesin-hindii
2. Vo Tera Ghar Ye Mera Ghar: http://gadyakosh.org/gk/%E0%A4%B5%E0%A5%8B_%E0%A4%A4%E0%A5%87%E0%A4%B0%E0%A4%BE_%E0%A4%98%E0%A4%B0,_%E0%A4%AF%E0%A5%87_%E0%A4%AE%E0%A5%87%E0%A4%B0%E0%A4%BE_%E0%A4%98%E0%A4%B0_/_%E0%A4%AE%E0%A4%BE%E0%A4%B2%E0%A4%A4%E0%A5%80_%E0%A4%9C%E0%A5%8B%E0%A4%B6%E0%A5%80
3. https://hindistory.net/

Part II English
GENERAL ENGLISH - II

Learning Objectives

- To make students realize the importance of resilience
- To enable them to become good decision makers
- To enable them to imbibe problem-solving skills
- To enable them to use tenses appropriately
- To help them use English effectively at the work place.

UNIT I

RESILIENCE

Poem

1.1 Don't Quit – Edgar A. Guest

1.2 Still Here – Langston Hughes

Short Story

1.3 Engine Trouble – R.K. Narayan

1.4 Rip Van Winkle – Washington Irving

UNIT II

DECISION MAKING

Short Story

2.1 The Scribe – Kristin Hunter

2.2 The Lady or the Tiger - Frank Stockton

Poem

2.3 The Road not Taken – Robert Frost

2.4 Snake – D. H Lawrence

UNIT III

PROBLEM SOLVING

Prose life Story

3.1 How I taught My Grandmother to Read – Sudha Murthy

Autobiography

3.3 How frog Went to Heaven – A Tale of Angolo

3.4 Wings of Fire (Chapters 1,2,3) by A.P.J Abdul Kalam

UNIT IV

Tenses

4.1 Present

4.2 Past

4.3 Future

4.4 Concord

UNIT V

English in the Workplace

5.1 E-mail – Invitation, Enquiry, Seeking Clarification

5.2 Circular

5.3 Memo

5.4 Minutes of the Meeting

Text Books (Latest Editions)

References Books

1. Martin Hewings. Advanced English Grammar. Cambridge University Press, 2000
2. SP Bakshi, Richa Sharma. Descriptive English.Arihant Publications (India) Ltd., 2019.
3. Sheena Cameron, Louise Dempsey. The Reading Book: A Complete Guide to Teaching Reading. S & L. Publishing, 2019.
4. Barbara Sherman. Skimming and Scanning Techniques, Liberty University Press, 2014.
5. Phil Chambers. Brilliant Speed Reading: Whatever you need to read, however. Pearson, 2013.
6. Communication Skills : Practical Approach Ed.ShaikhMoula Ramendra Kumar. Stories of Resilience, Blue Rose Publications, 2020.

Web Sources

1. Langston Hughes. Still Here https://poetryace.com/im-still-here
2. R. K. Narayan. Engine Trouble http://www.sbioaschooltrichy.org/work/Work/images/new/8e.pdf
3. Washington Irving. Rip Van Winkle https://www.gutenberg.org/files/60976/60976-h/60976-h.htm
4. Frank Stockton. The Lady or the Tiger https://www.gutenberg.org/ebooks/396

OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++

Course Objectives

- Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects
- Understand dynamic memory management techniques using pointers, constructors, destructors, etc.
- Describe the concept of function overloading, operator overloading, virtual functions and polymorphism
- Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming
- Demonstrate the use of various OOPs concepts with the help of programs

UNIT I

Introduction to C++ - key concepts of Object-Oriented Programming –Advantages – Object Oriented Languages – I/O in C++ - C++ Declarations. Control Structures : - Decision Making and Statements : If ..else, jump, goto, break, continue, Switch case statements - Loops in C++ :for, while, do - functions in C++ - inline functions – Function Overloading.

UNIT II

Classes and Objects: Declaring Objects – Defining Member Functions – Static Member variables and functions – array of objects –friend functions – Overloading member functions – Constructor and destructor with static members.

UNIT III

Operator Overloading: Overloading unary, binary operators – Overloading Friend functions –type conversion – Inheritance: Types of Inheritance – Single, Multilevel, Multiple, Hierarchal, Hybrid, Multi path inheritance – Virtual base Classes – Abstract Classes.

UNIT IV

Pointers – Declaration – Pointer to Class , Object – this pointer – Pointers to derived classes and Base classes – Arrays – Characteristics – array of classes – Memory models – new and delete operators – dynamic object – Binding, Polymorphism and Virtual Functions.

UNIT V

Files – File stream classes – file modes – Sequential Read / Write operations – Binary and ASCII Files – Random Access Operation – Templates – Exception Handling - String – Declaring and Initializing string objects – String Attributes – string functions

Text Book

1. E.Balagurusamy, "Object-Oriented Programming with C++", TMH 2013, 7th Edition.

Reference Books

1. Ashok N Kamthane, "Object-Oriented Programming with ANSI and Turbo C++", Pearson Education 2003.
2. Maria Litvin& Gray Litvin, "C++ for you", Vikas publication 2002.

Web Resources

1. https://alison.com/course/introduction-to-c-plus-plus-programming

C++ PROGRAMMING LAB

Course Objectives

- Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects
- Understand dynamic memory management techniques using pointers, constructors, destructors, etc.
- Describe the concept of function overloading, operator overloading, virtual functions and polymorphism

- Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming
- Demonstrate the use of various OOPs concepts with the help of programs

EXERCISES

1. Write a C++ program to demonstrate function overloading, Default Arguments and Inline function.
2. Write a C++ program to demonstrate Class and Objects
3. Write a C++ program to demonstrate the concept of Passing Objects to Functions
4. Write a C++ program to demonstrate Friend Functions.
5. Write a C++ program to demonstrate Constructor and Destructor
6. Write a C++ program to demonstrate Unary Operator Overloading
7. Write a C++ program to demonstrate Binary Operator Overloading
8. Write a C++ program to demonstrate:
    - Single Inheritance
    - Multilevel Inheritance
    - Multiple Inheritance
    - Hierarchical Inheritance
    - Hybrid Inheritance
9. Write a C++ program to demonstrate Virtual Functions.
10. Write a C++ program to manipulate a Text File.
11. Write a C++ program to perform Sequential I/O Operations on a file.
12. Write a C++ program to find the Biggest Number using Command Line Arguments
13. Write a C++ program to demonstrate Class Template
14. Write a C++ program to demonstrate Function Template
15. Write a C++ program to demonstrate Exception Handling

Text Book

1. E.Balagurusamy, “Object-Oriented Programming with C++”, TMH 2013, 7th Edition.

Reference Books

1. Ashok N Kamthane, “Object-Oriented Programming with ANSI and Turbo C++”, Pearson Education 2003.
2. Maria Litvin& Gray Litvin, “C++ for you”, Vikas publication 2002.

Web Resource

1. https://alison.com/course/introduction-to-c-plus-plus-programming

DIGITAL LOGIC FUNDAMENTALS

Course Objective:

- To familiarize the student with basic principles and fundamentals in digital logics and design.
- To develop basic skills using tools and theory used in design process.
- To understand the creative process, develop techniques and methods of creative problem solving.

Unit I

Digital System and binary numbers: Digital systems – binary numbers – number base conversion – Octal and hexadecimal numbers – complements – signed binary numbers – binary codes – binary storage and registers – binary logic. Boolean algebra: Introduction – basic definition – axiomatic definition of Boolean algebra – basic theorem and properties and of Boolean algebra – Boolean functions.

Unit II

Logic gates: Canonical and standard forms – other logic operations – digital logic gates and integrated circuits. Gate-Level minimization: Introduction : The Map method – Four- variable Maps –Five-variable Map – Product –of-sums simplifications- Don,,t conditions.

Unit III

NAND and NOR implementation- other two level implementations – Exclusive OR Functions. Combinational Logic: Introduction – Combinational circuits – Analysis Procedure - Design Procedure – Binary Adder – Subtractor – Decimal Adder - Binary Multiplier - Magnitude Comparator.

Unit IV

Combinational Logic: Decoders - Encoders – Multiplexers. Synchronous Sequential Logic: Introduction –Sequential Circuits – Storage Element Latches - Storage Element Flip- Flops - Analysis of Clocked Sequential Circuits.

Unit V

Registers and Counters: Registers – Shift Registers – Ripple Counters – Synchronous Counters – Other Counters. Memory :Introduction – Random access memory – MemoryDecoding –ErrorDetectionand Correction – Read Only Memory.

Text Book

1. Digital Design - Fourth Edition – M.Morris Mano, Michael D Ciletti,- Prentice Hall of India Pvt Ltd., 2007

Reference Books

1. Digital Principles and Applications – Albert Paul Malvino, Donald P Leach, Tata McGraw-Hill Publishing Company Ltd.
2. Digital Principles and Design – Donald D.Givone, Tata McGraw-Hill Publishing Company Limited

OPTIMIZATION TECHNIQUES

Course objectives:

- To apply various optimization techniques for decision making.
- To introduce the use of variables for formulating complex mathematical models in management, science and industrial applications.

UNIT I

INTRODUCTION OPERATIONS RESEARCH

The Nature and Meaning of OR–Management–Applications of OR– Modeling in OR– General methods for solving OR models– Scope of OR – Advantages and disadvantages of OR

UNIT II

LINEAR PROGRAMMING PROBLEM

Linear Programming Problem: Formulation of LP problems– Graphical solution of LP problems–General formulation of LPP–Slack and Surplus variables–Standard form of LPP

UNIT III

ASSIGNMENT PROBLEMS

Assignment Problem: Mathematical formulation–Hungarian method–Unbalanced assignment problem–Various types

UNIT IV

TRANSPORTATIONPROBLEMS

Transportation Model: Mathematical formulation – Matrix form–Methods forfinding Initial Basic Feasible solution and Optimal solution.

UNIT V

PERT AND CPM TECHNIQUES

PERT and CPM Techniques: Basic Steps–Network Diagram representation– Rules for drawing Network Diagram–Labeling Fulkerson‟s I–J Rule– Time Estimates and Critical Path in Network Analysis – Examples on optimum duration and minimum duration cost –PERT.

TEXT BOOK

1. S.D.Sharma,"Operations Research",Tenth Edition, Pearson, 2017.

REFERENCE BOOKS

1. Hamdy A Taha,"Operations Research" Ninth Edition, Pearson, 2016. V.Sundaresan, K.S.Ganapathy Subramanian, K. Ganesan, "Resource Management Techniques", Ninth Edition, A.R.Publications, 2015

WEB DESIGNING

Course Objectives

- Understand the basics of HTML and its components
- To study about the Graphics in HTML
- Understand and apply the concepts of XML and DHTML
- Understand the concept of Java Script
- To identify and understand the goals and objectives of the Ajax

UNIT I

HTML: HTML – Introduction – tag basics - page structure-adding comments working with texts, paragraphs and line break. Emphasizing test- heading and horizontal rules-list-font size, face and color- Alignment links-tables-frames.

UNIT II

Forms & Images Using Html: Graphics: Introduction - How to work efficiently with images in web pages, image maps, GIF animation, adding multimedia, data collection with html forms textbox, password, listbox, combobox, textarea, tools for Building web page front page.

UNIT III

XML & DHTML: Cascading style sheet (CSS)-what is CSS-Why we use CSS-adding CSS to your webpages-Grouping styles-extensible markup language (XML).

UNIT IV

Dynamic HTML: Document object model (DCOM)-Accessing HTML & CSS through DCOM Dynamic content styles & positioning – Event bubbling – data binding. Java Script: Client-side scripting, What is Java Script, How to develop Java Script, simple Java Script, variables, functions, conditions, loops and repetition,

UNIT V

Advance script, Java Script and objects, Java Script own objects, the DOM and web

browser environments, forms and validations.

TextBooks

1. Pankaj Sharma,—WebTechnology, Sk Kataria & Sons Bangalore 2011.
2. Mike Mcgrath,—Java Script‖, Dream Tech Press 2006, 1st Edition.
3. Achyut S Godbole & Atul Kahate,— Web Technologies‖, 2002, 2nd Edition.

Reference Books

1. LauraLemay,RafeColburn,JenniferKyrnin,—MasteringHTML,CSS&JavaScript Web Publishing‖,2016.
2. DTEditorialServices(Author),—HTML5BlackBook(CoversCSS3,JavaScript,XML,HTML,AJAX,PHP,jQuery)‖,Paperback2016,2ndEdition.

Web Resources

1. NPTEL&MOOCcoursestitledWebDesignandDevelopment.
2. https://www.geeksforgeeks.org

HTML LAB

Learning Objectives

- Insert a graphic within a web page.
- Create a link within a web page.
- Create a table within a web page.
- Insert heading levels within a web page.
- Insert ordered and unordered lists within a web page.

Excercises

1. Create a website using internal links and images.
2. Design a calendar using table tag.
3. Create a HTML document to display a list of five flowers and link each one to another document displaying brief description of the flower, Add pictures wherever possible.
4. Write a HTML code to display a list of 5 cars in a frame, link each one to a brief description in second frame. The left frame should display the list and the right frame should display the paragraph about the frame.
5. Create a simple HTML Form covering major form elements.
6. Embed Audio and Video in a HTML page.
7. Rotate an element using CSS.
8. Build a simple quiz.

Textbooks

1. "Mastering HTML5 and CSS3 Made Easy", TeachUComp Inc., 2014.
2. Thomas Michaud, "Foundations of Web Design: Introduction to HTML & CSS"

Web Resources

1. https://www.teachucomp.com/samples/html/5/manuals/Mastering-HTML5-CSS3.pdf
2. https://www.w3schools.com/html/default.asp