હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી

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પો.બો.નં.–૨૧, યુનિવર્સિટી રોડ, પાટણ (ઉ.ગુ.) ૩૮૪૨૬૫

ફોનઃ(૦૨૭૬૬) ૨૩૭૦૦૦ ફેકસ : (૦૨૭૬૬) ૨૩૧૯૧૭

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પરિપત્ર ક્રમાંક – ૧૭૩/ ૨૦૧૯

વિષય : મેનેજમેન્ટ સ્ટડીઝ વિદ્યાશાખા અંતર્ગત BCA Sem 1&2 , M.Sc. (CA & IT) Sem 1 & 2 અને MCA (Int.) **ના અભ્યાસક્રમોના પ્રશ્નપત્રના માળખા અંગે...**

આ યુનિવર્સિટીના સંલગ્ન મેનેજમેન્ટ સ્ટડીઝ વિદ્યાશાખાની તમામ કોલેજોના આચાર્યશ્રીઓને જણાવવાનું કે,મેનેજમેન્ટ સ્ટડીઝ વિદ્યાશાખા અંતર્ગત BCA Sem 1&2 , M.Sc. (CA & IT) Sem 1 & 2 અને MCA (Int.) ના સામેલ પરિશિષ્ટ પ્રમાણેનું મેનેજમેન્ટ વિદ્યાશાખાના ડીનશ્રીએ રજૂ કરેલ પ્રશ્નપત્રનું માળખુ જૂન– ૨૦૧૯ થી અમલમાં આવે તે રીતે એકેડેમિક કાઉન્સિલવતી માન. કુલપતિશ્રીએ મંજૂર કરેલ છે. જેનો અમલ કરવા સારૂ સબંધિતોને આ સાથે મોકલવામાં આવે છે.

આ બાબતની સબંધિત અધ્યાપકો તથા વિધાર્થીઓને આપના સ્તરેથી જાણ થવા વિનંતી છે.

સહી/–
અધ્યક્ષ

બિડાણ : ઉપર મુજબ

નં.–એ કે / અ× સ / ૪૩૨૧ / ૨૦૧૯
તારીખઃ ૨૩ / ૦૮ / ૨૦૧૯

પ્રતિ,
૧. સંલગ્ન BCA, M.Sc.(CA & IT) અને MCA કોલેજોના આચાર્યશ્રીઓ
૨. ડા. નિશિથકુમાર એચ. ભટ્ટ (ડીનશ્રી મેનેજમેન્ટવિદ્યાશાખા),ડીપાર્ટમેન્ટ ઓફ એમ.બી.એ., હેમ. ઉ.ગુ. યુનિવર્સિટી, પાટણ.
૩. મેનેજમેન્ટ સ્ટડીઝ વિદ્યાશાખા હેઠળના વિષયોની અભ્યાસ સમિતિઓના ચેરમેનશ્રીઓ
૪. પરીક્ષા નિયામકશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ. (બે નકલ)
૫. ગ્રંથપાલશ્રી, હેમ.ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ. (વિદ્યાર્થીઓના ઉપયોગ સારૂ રેકર્ડ ફાઈલ માટે)
૬. સીસ્ટમ એનાલીસ્ટ, કોમ્પ્યુટર(રીઝલ્ટ) સેન્ટર, હેમ.ઉ.ગુ. યુનિવર્સિટી,પાટણ તરફ પરિણામ માટે તથા વેબસાઈટ પર મૂકવા સારૂ.
૭. મુખ્ય હિસાબી અધિકારીશ્રી (મહેકમ), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ તરફ–પરિપત્રની ફાઈલ અર્થે
૮. સિલેકટ ફાઈલે– (૨ નકલ)

હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી

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ફોનઃ(૦૨૭૬૬) ૨૨૭૪૫, ૨૩૦૫૨૯, ૨૩૦૭૪૩, ૨૩૩૬૪૮ ફેકસ : (૦૨૭૬૬) ૨૩૧૯૧૭

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પરિપત્ર ક્રમાંક – ૧૨૭ / ૨૦૧૮

વિષયઃ– M.C.A. Semester-1 to 4,
M.Sc (C.A.&I.T.) Semester-1 & 2 અને
M.C.A.(INTEGRETED) Semester-1 & 2ના નવા અભ્યાસક્રમ અંગે..

આ યુનિવર્સિટીના કોમ્પ્યુટર સાયન્સ ડીપાર્ટમેન્ટના અધ્યક્ષશ્રી અને સંલગ્ન M.Sc.(C.A & I.T.) કોલેજોના આચાર્યશ્રીઓને જણાવવાનું કે, UGC ની Model Curriculum અંગેની Guideline સંદર્ભે નો M.C.A. Semester-1 to 4, M.Sc (C.A.&I.T.) Semester-1 & 2 , M.C.A.(INTEGRETED) Semester-1 & 2 સુધીનો સામેલ પરિશિષ્ટ મુજબનો નવો અભ્યાસક્રમ એકેડેમિક કાઉન્સિલએ તેની તારીખઃ ૦૫/૦૬/ ૨૦૧૮ની સભાના ઠરાવ ક્રમાંકઃ–૩૪ થી **શૈક્ષણિક વર્ષ : ૨૦૧૯–૨૦ થી ક્રમશઃ અમલમાં આવે તે રીતે** મંજૂર કરેલ છે. જેનો અમલ કરવા સારૂ સંબંધિતોને આ સાથે મોકલવામાં આવે છે.

આ બાબતની સંબંધિત અધ્યાપકો તથા વિધાર્થીઓને આપના સ્તરેથી જાણ કરવા વિનંતી છે.

નોંધ :– (૧) વિદ્યાર્થીઓની જરૂરીયાત માટે પરિપત્રની એક નકલ કોલેજના ગ્રંથાલયમાં મૂકવાની રહેશે.
(૨) આ અભ્યાસક્રમ / સ્કીમ યુનિવર્સિટીની વેબ સાઈટ www.ngu.ac.in પર પણ ઉપલબ્ધ કરાવવામાં આવનાર છે.

સહી/–

બિડાણ : ઉપર મુજબ કુલસચિવવતી

નં.–એ કે / અ× સ / ૩૭૮૭ / ૨૦૧૮
તારીખઃ ૯ / ૦૮ / ૨૦૧૮

પ્રતિ,
૧. આ યુનિવર્સિટીના કોમ્પ્યુટર સાયન્સ ડીપાર્ટમેન્ટના અધ્યક્ષશ્રી
૨. સંલગ્ન એમ.એસસી.(સી.એ. એન્ડ આઈ.ટી)કોલેજોના આચાર્યશ્રીઓ
૩. ડા.રાજેશ એમ.મહેતા (ડીન–કોમ્પ્યુટર સાયંસ) આઈ.એન.એસ.બી., બી.સી.એ.કોલેજ, એસ.ટી.સ્ટેન્ડ પાસે, મુ. ઈડર,જિ.સાબરકાંઠા –૩૮૩ ૪૩૦
૪. પરીક્ષા નિયામકશ્રી, હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, **પાટણ.** (પાંચ નકલ)
૫. ગ્રંથપાલશ્રી, હેમ.ઉત્તર ગુજરાત યુનિવર્સિટી, **પાટણ.** (વિદ્યાર્થીઓના ઉપયોગ સારૂ રેકર્ડ ફાઈલ માટે)
૬. સિસ્ટમ એનાલીસ્ટશ્રી, કોમ્પ્યુટર (રીઝલ્ટ) સેન્ટર, હેમ.ઉ.ગુ.યુનિવર્સિટી, **પાટણ.** તરફ પરિણામ માટે તથા વેબસાઈટ પર મૂકવા સારૂ.
૭. માન.કુલપતિશ્રી/ કુલસચિવશ્રીનું કાર્યાલય, હેમ.ઉત્તર ગુજરાત યુનિવર્સિટી, **પાટણ.**
૮. અનુસ્નાતક પ્રશાખા (એકેડેમિક), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, **પાટણ.**
૯. મુખ્ય હિસાબી અધિકારીશ્રી (મહેકમ), હેમચંદ્રાચાર્ય ઉત્તર ગુજરાત યુનિવર્સિટી, પાટણ તરફ → પરિપત્રની ફાઈલ અર્થે
૧૦. સિલેકટ ફાઈલે–(૨ નકલ)

M.Sc. (CA & IT) SEMESTER - I		
Subject Code & Subject Name	**Question Paper Scheme**	
Question No		**Marks**
101 - COMMUNICATION SKILLS	**Que-1**	
	[A] Unit-I Long Questions	**8**
	[B] Unit-I Short Questions	**4**
	Que-2	
	[A] Unit-II Long Questions	**9**
	[B] Unit-II Short Questions	**4**
	Que-3	
	[A] Unit-III Long Questions	**8**
	[B] Unit-III Short Questions	**4**
	Que-4	
	[A] Unit-I,II,III Long Questions	**9**
	[B] Unit-I,II,III Short Questions	**4**
102 – Mathematics – I	**Que-1**	
	[A] Unit-I Long Questions	**12**
	[B] Unit-I Short Questions	**5**
	Que-2	
	[A] Unit-II Long Questions	**12**
	[B] Unit-II Short Questions	**6**
	Que-3	
	[A] Unit-III Long Questions	**12**
	[B] Unit-III Short Questions	**5**
	Que-4	
	[A] Unit-IV Long Questions	**12**
	[B] Unit-IV Short Questions	**6**
103 - Introduction to Programming Language	**Que-1**	
	[A] Unit-I Long Questions	**14**
	[B] Unit-IV Short Questions	**3**
	Que-2	
	[A] Unit-II & III Long Questions	**12**
	[B] Unit-II & III Short Questions	**6**
	Que-3	
	[A] Unit-VI Long Questions	**14**
	[B] Unit-IV Short Questions	**3**
	Que-4	
	[A] Unit-V Long Questions	**12**
	[B] Unit-V Short Questions	**6**

M.Sc. (CA & IT) SEMESTER - I		
Subject Code & Subject Name	**Question Paper Scheme**	
Question No		**Marks**
104 - Introduction to PC Package & Operating System	**Que-1**	
	[A] Unit-I Long Questions	**12**
	[B] Unit-I Short Questions	**5**
	Que-2	
	[A] Unit-II Long Questions	**12**
	[B] Unit-II Short Questions	**6**
	Que-3	
	[A] Unit-III Long Questions	**12**
	[B] Unit-III Short Questions	**5**
	Que-4	
	[A] Unit-IV Long Questions	**12**
	[B] Unit-IV Short Questions	**6**
105 - Internet and Web - I	**Que-1**	
	[A] Unit-I Long Questions	**14**
	[B] Unit-II Short Questions	**3**
	Que-2	
	[A] Unit-II Long Questions	**12**
	[B] Unit-II Short Questions	**6**
	Que-3	
	[A] Unit-III Long Questions	**14**
	[B] Unit-II Short Questions	**3**
	Que-4	
	[A] Unit-IV Long Questions	**14**
	[B] Unit-II Short Questions	**4**

M.Sc. (CA & IT) SEMESTER - II		
Subject Code & Subject Name	**Question Paper Scheme**	
Question No		**Marks**
201 - Mathematics – II	**Que-1**	
	[A] Unit-I Long Questions	**12**
	[B] Unit-I Short Questions	**5**
	Que-2	
	[A] Unit-II & III Long Questions	**12**
	[B] Unit-II & III Short Questions	**6**
	Que-3	
	[A] Unit-IV Long Questions	**12**
	[B] Unit-IV Short Questions	**5**
	Que-4	
	[A] Unit-V Long Questions	**12**
	[B] Unit-V Short Questions	**6**
202 - Financial Accounting & Management	**Que-1**	
	[A] Unit-I Long Questions	**9**
	[B] Unit-III Short Questions	**4**
	Que-2	

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

Department of Computer Science

M. Sc. (CA & IT) SEMESTER – I

Sub. No.	Subject Name	Teaching Scheme			Examination Scheme					
			Theory	Practical	Internal Marks		External Marks		Total Marks	
		Total Credit	Lectures Hours / Week	Per Batch * Hours / Week	Theory (IT)	Practical (IP)	Theory (ET)	Practical (EP)	Theory (IT+ET)	Practical (IP+EP)
101	Communication Skills	4	3	1	20	10 (Viva)	50	20 (Viva)	70	30
102	Mathematics – I	4	4	--	30	--	70	--	100	--
103	Introduction to Programming Language	4	3	1	30	20	70	30	100	50
104	Introduction to PC Packages & Operating System	4	2	2	30	20	70	30	100	50
105	Internet & Web - I	4	2	2	30	20	70	30	100	50
Total		**20**	**14**	**6**	**--**	**--**	**--**	**--**	**470**	**180**

Note : ***** Indicates 80 students batch per practical.

IT – Internal Theory **IP** – Internal Practical

ET – External Theory **EP** – External Practical

H. N. G. University, Patan
M.Sc. (CA & IT) SEMESTER - I
101 : COMMUNICATION SKILLS

OBJECTIVES :

1. To develop communication skills of speaking, reading and Writing.
2. To create awareness for correct usage and to carry out remedial Language work.
3. To expand vocabulary and correct pronunciation.

Unit : 1 **[20 Marks]**

ORAL COMMUNICATION

(1) At the college (2) On the campus

(3) Outside the campus (4) At the post office

(5) For Business and pleasure (6) Review.

Unit : 2 **[25 Marks]**

GRAMMER AND USAGE

(1) The Articles (2) Nouns & Pronouns

(3) Tenses (4) Auxiliary verbs (Model auxiliaries)

(5) Questions and negatives (6) Prepositions attached to verbs

(7) Vocabulary words often confused, Abbrevi ations and Numerals

(8) Active-Passive (9) Conjunctions

(10) Reported speech (11) Translation

Unit : 3 **[25 Marks]**

BUSINESS COMMUNICATION

(1) Enquiries and Replies (2) Quotations

(3) Voluntary offers (4) Placing of orders

(5) Cancellations of orders (6) Complaints and

Text Book:

For Part-I ORAL COMMUNICATION

Essential English Grammer by Raymond Murphy, 2nd Edition (Cambridge University Press)

Reference Books:

For Part-II GRAMMER AND USAGE

1. Advanced English for Non-native Learners B Mishara, Jadeja & Jishi.(O.U.P.)
2. Contemporary English Grammar, Structure and Composition By David Green.(MacMillan)

For Part-III BUSINESS COMMUNICATION

1. Essentisld of Business Communication By Rajendra Pal and J.S.Korlahalli (S.Chand & Sons)
2. Modern Business Correspondence in Business English Written By Barin M.H.Robinson, V.S.Netrakanti(Orient) Business corrospondence & Report By R.C.Sharma & Krishna Mohan.

Examination Scheme:

(A) 70% External (70 marks out of 100 mar ks)

* 50 marks Theory paper of three Hours.
* 20 Marks Oral Examination.

(B) 30% Internal (30 Marks out of 100 marks)

* 20 marks at least two internal test will be conducted by the institute. Finally 20 marks will be manipulated.
* 10 marks Oral Examination.

H. N. G. University , Patan
M. Sc. (CA & IT) – Sem – I
102 – Mathematics – I

Unit : 1 **[18 Marks]**

Set Theory: -

Set, subset, equality of two sets, Null set ,Universal set, complement of a set, Difference of two sets, Venn Diagram, commutative ,associative and distributive laws , De morgans laws , Cartesian product of two sets ,power sets , Partitions sets , Mathematic al Inductions , Computing Principles , Permutations , Combinations.

Unit : 2 **[18 Marks]**

Function: -

Definition, Domain and Range, Constant function, polynomial function, Relational functions, Exponential functions and Logarithm functions, Inverse function, Trigonometric functions, Graph of the functions, Recursive functions: Definitio ns and Examples.

Mathematical Functions :-

Floor and Ceiling functions , Integer and Absolute value functions , Remainder functions

Sequence and Series :-

Definitions, Difference between Sequence and series, To find nth term and sum of n terms

Application to Break-Even Analysis: -

Demand, supply, Revenue and cost function

Unit : 3 **[18 Marks]**

Vector, Determinants and Matrices

Vector	:	Definitions only
Determinant	:	Concept of Determinants , Properties of determinants, Cramers Rule.
Matrices	:	Algebra of matrices , Row and Column Transformation, Computation of Inverse , Simultaneous equations in two And three unknown variables solve by matrix methods .

Unit : 4 **[16 Marks]**

Limit and Continuity

Limit of a function, Rules of a Limit (without proof), some standard Limits (without proof)

$$\lim_{x \to a} \frac{x^n - a^n}{x - a}, \quad \lim_{x \to 0} \frac{a^x - 1}{x}, \quad \lim_{x \to 0} \frac{e^x - 1}{x}$$

$$\lim_{x \to 0} (1 + x)^{1/x} \qquad \lim_{x \to 8} (1 + 1/x)^x$$

$$\lim_{x \to} \frac{\sin x}{X}, \quad \lim_{X} \frac{\tan x}{X}$$

Continuity and discontinuity for a polynomial functions at a point.

Text Books :-

Advanced Mathematics – Ravi Gor (Nirav Prakashan)

Reference Book : -

Discrete Mathematics - S . Lipschutz , M .Lipson

H. N. G. University, Patan
M.Sc. (CA & IT) SEMESTER - I
103 : Introduction to Programming Language

Unit : 1 **[20%]**

Introduction to programming :

What is programming?, Problem solving methods with examples-Algorithm and Flowchart, Types of Programming languages, Characteristics of higher level language, Some Programming languages

Overview of C:

Introduction, Importance of C, Sample C programs, Basic structure of C programs, Programming style, Executing a C program.

Constants, Variables and data Types :

Introduction, Character Set, C tokens, Keywords and Identifiers, Constants, Variables, Data types, Declaration of Variables, Defining symbolic constants.

Unit : 2 **[15%]**

Operators and Expression :

Introduction, Arithmetic of Operators, Relational Operators, Logical Operators, Assignment Operators, Increment and Decrement Operators, Conditional Operators, Bit-wise Operators, Special Operators, Arithmetic Expressions, Evaluation of expressions, Precedence of arithmetic operators, Type conversions in expressions, Mathematical function.

Managing Input and Output Operators :

Introduction, reading a character, writing a character, Formatted input, Formatted output.

Unit : 3 **[10%]**

Decision Making branching :

Introduction, Decision making with IF statement, Simple IF statement, the IF ELSE statement, Nesting of IF … ELSE statements, The ELSE IF ladder, The switch statement, the turnery (? :) Operator, the GOTO statement.

Decision Making Looping :

Introduction, the WHILE statement, the DO statement, The FOR statement, Jumps in loops Break and continue.

Unit : 4 **[10%]**

Array :

Introduction, One-dimensional arrays, Two-dimensional arrays, Initialization of two-dimensional arrays, Concept of Multidimensional arrays.

Handling of Character strings :

Introduction, Declaring and initializing string variables, Reading string from terminal, Writing string to screen, Arithmetic operations on characters, Putting string together, String Operations : String Copy, String Compare, String Concatenation And String Length, String Handling functions, Table of strings.

Unit : 5 **[25%]**

User-Defined Functions :

Introduction, Need for user-defined functions, The form of C function, Return values and their types, Calling a function, category of functions, No arguments and no return values, Arguments with return values, Handling of non-integer functions, Nesting of functions, Recursion, Functions with arrays, The scope and Lifetime of variables in functions, Ansi C functions.

Structures and Unions :

Introduction, Structure definition, Giving values to members, Structure initialization, Comparison of structures, Arrays of structures, Arrays within structures, Structures within Structures, Structures and functions, Unions, Size of structures, Bit fields.

Unit : 6 **[20%]**

Pointers :

Introduction, Understanding pointers, Accessing the address of variable, Declaring and initializing pointers, Accessing a variable through its point er, Pointer expressions, Pointer increments and scale factor, Pointers and arrays, Pointers and character strings, Pointers and Functions, Pointers and structures.

File Management in C :

Introduction, Defining files and its Operations, Error handling durin g I/O operations, Random access files, Command line arguments.

The Preprocessors :

Introduction, Macro Substitution, File inclusion, Compiler control directives

Text Book:

1. Programming in ANSI C, Balaguruswamy, Tata McGraw-Hill

Reference Books:

1. The Complete Reference, Herbert schildt Fourth Edition
2. Programming in C Ansi standard, M.T.Savaliya, Atul Prakashan
3. Let Us C , Yashwant Kanetkar, BPB Publications
4. Programming with C, Gottfried, McGraw-Hill International.

[**NOTE:-** Theory and Practical of this course is based on at least Windows XP and MS Office 2000 Version, newer versions can also be used for performing practical in Lab.]

Unit : 1 **[25%]**

DOS:

Internal & External commands; Wildcard Character; file name; Creating/Editing file batch file.

MS Windows: Windows Basic:

Introduction to Windows; Using start menu; Using Run to start a program; Move or size a window; computer hardware; Viewing Files: Using My Computer; Using Windows Explorer.

Working with Files:

Select, open, move, copy rename, delete, restore deleted files; create a new file and folder, search for files; create a shortcut; Printing: print files, pictures; Introduction t o Accessories and Control Panel

Install Software:

Add windows Component; Install and remove program

Unit : 2 **[25%]**

MS Word Basics:

Introduction to MS Office; Introduction to MSWord; Features & area of use; Working with MS Word. – Menus & Commands, Toolbars & Buttons, Shortcut Menus, Wizards & Templates; Creating a New Document; Different Page Views and layouts; Applying various Text Enhancements; Working with – Styles, Text Attributes; Paragraph and Page Formatting; Text Editing using various features – Bullets, Numbering, Auto formatting, Printing & various print options.

Advanced Features of MS-Word:

Using bookmarks; Spell Check and Thesaurus; Find & Replace; Headers & Footers ; Inserting – Page Numbers, Pictures, Files, Auto texts, Symbols ; Working with Columns, Tabs & Indents; Creation & Working with Tables ; Margins & Space management in Document; Mail Merge.

Unit : 3 **[25%]**

MS Excel:

Introduction and area of use; Working with MS Excel.; concepts of Workbook & Worksheets; Using different features with Data, Cell and Texts; Inserting, Removing & Resizing of Columns & Rows; Working with Data & Ranges; Different Views of Worksheets; Column Freezing, Labels, Hiding, Splitting etc.; Using different features with Data and Text; Use of Formulas, Calculations & Functions; Cell Formatting including Borders & Shading; Working with Different Chart Types; Printing of Workbook & Worksheets with various options.

Unit : 4 **[25%]**

MS PowerPoint:

Introduction & area of use; Working wit h MS PowerPoint; Creating a New Presentation; Working with Presentation; Using Wizards; Slides & it's different views; Inserting, Deleting and Copying of Slides; Working with Notes, Handouts, Columns & Lists; Adding Graphics, Sounds and Movies to a Slide; Working with PowerPoint Objects; Designing & Presentation of a Slide Show; Printing Presentations, Notes, Handouts with print options.

MS Access:

DBMS Concept; Creating database, table, fields & its properties; Data types; Adding primary key into table; Relationship; Adding/Editing data; sorting; indexing; designing queries; using forms; Report generation.

Text Books:

1. Master Visually Windows XP complete visual reference,Hungry Minds
2. Straight to the Point – MS Office 2003 By Dinesh Maidasani Publisher:firewall
3. Master Visually Microsoft Office 2003 By Michael S. Toot Publisher:visual
4. Online Help.

Reference Books:

1. Windows Xp simplified, Wiley publishing Inc.
2. Ms-Office 2000 – No Experience required – Gini Courter and Annette Marquis.

H. N. G. University, Patan
M.Sc.(CA & IT) SEMESTER - I
105: Internet and Web - I

Unit : 1 **[20%]**

Concept of Internet (Book – 1)

A brief Introduction to the Internet: Computer Networks, Internet, URL (Uniform Resource Locator), Internet Service Provider, Intranet, Extranet, Virtual Private Network.

Application of Internet:

World Wide Web, Search Engines, News groups, Electronic Mail, Web Portal, Chat, Video Conferencing, FTP, Remote Login, E-Commerce, E-Learning, E-Governance, E-Banking.

Unit : 2 **[40%]**

Static Web Page Development (Book - 2)

Basics of HTML: What is Internet Language?, Understanding HTML, Create a Web page, Linking to other Web Pages, Publishing HTML Pages, Text Alignment and Lists, Text Formatting Fonts Control, Email Links and link within a Page, Creating a Table, Creating HTML Forms, Creating Web Page Graphics, Putting Graphics on a Web Page, Custom Backgrounds and Colors, Creating Animated Graphics.

Unit : 3 **[20%]**

Dynamic Web page Development (Book – 2)

Cascading Style Sheet: CSS, Defining Style with HTML Tags, Features of Style Sheet, Style Properties, Style Classes, External Style Sheet

Unit : 4 **[20%]**

JavaScript (Book-3)

Introduction to JavaScript: Writing First Java Script, External JavaS cript, Variables: Rules for variable names, Declaring the variable, Assign a value to a variable, Scope of variable, Using Operators, Control Statements, JavaScript loops, JavaScript Functions: Defining a Function, Returning value from function, User defin e function.

Text Books :

1. Internet and Web Design Based on DOEACC III Revised syllabus 'O' Level - Mac Millan India Ltd.
2. Teach Yourself HTML 4 in 24 Hours By Dick Oliver (Tech media) 4th edition
3. The Complete Reference JavaScript By Thomas Powell & Fritz Schneider 2nd Edition.

Reference Books :

1. Online Help
2. HTML and CSS By Dick Oliver and Michael Morrison (Pearson Education) 7th edition
3. HTML, DHTML, JavaScript, Perl CGI By Ivan Bayross(BPB) 3rd Edition
4. CSS By Kynn Bartlett(Pearson Education) 2nd Edition
5. Introduction to Internet & HTML Scripting By Bhaumik Shroff Books India Publication 3rd Edition.