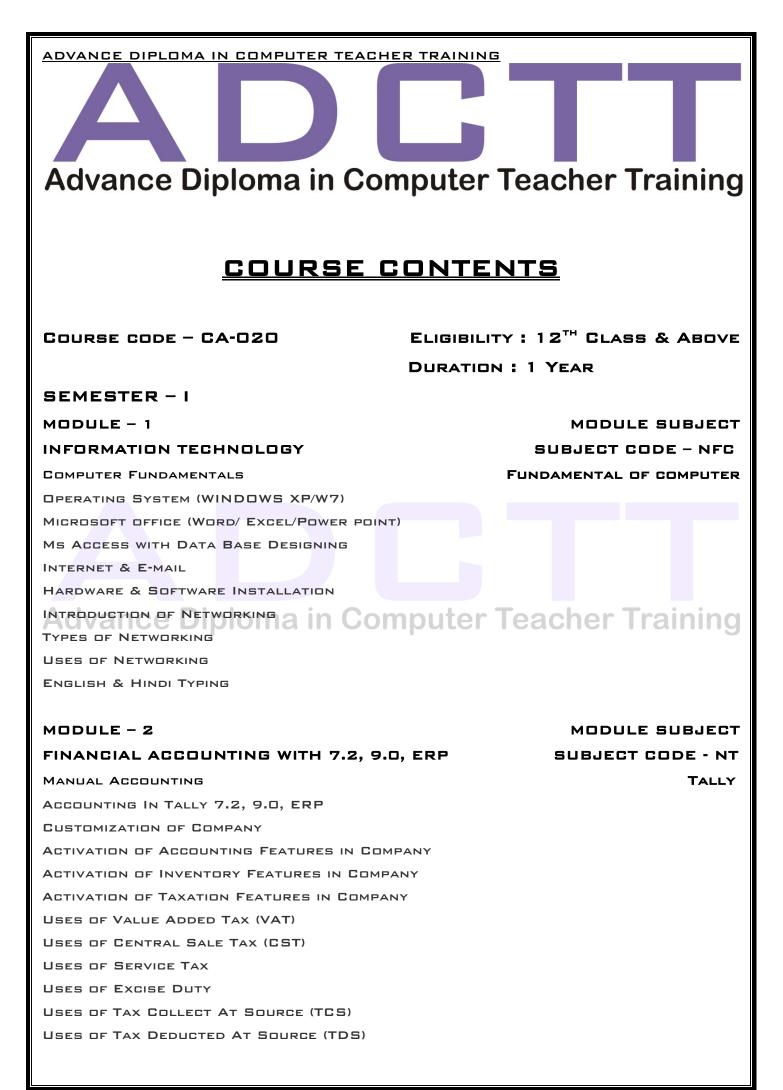


© All rights reserved. All copyright of this competency based curriculum is solely and exclusively owned by Navodaya-CSM (Rajasthan), INDIA. Page 1 of 30



ADVANCE DIPLOMA IN COMPUTER TEACHER TRAI	NING MODULE SUBJECT	
WEB DESIGNING WITH HTML & FRONTPAGE	SUBJECT CODE - NHD	
INTRODUCTION OF HTML	HTML & DHTML	
DESIGNING OF WEBPAGE & WEBSITE		
DESIGNING LIST IN WEBPAGE		
INTRODUCTION OF IMAGE, LINK & FRAME TAG		
INTRODUCTION OF TABLE & FORM TAG		
INTRODUCTION OF DHTML		
INTRODUCTION OF MICROSOFT FRONTPAGE		
CREATION OF WEBPAGE & WEBSITE		
MODULE - 4	MODULE SUBJECT	
DESK TOP PUBLICATION	SUBJECT CODE - NAC	
INTRODUCTION OF DTP	ADOBE : PHOTOSHOP, PAGMAKER	
INTRODUCTION OF NEWSLETTERS, LETTERHEADS,	CORELDRAW	
ADVERTISEMENT & VISITING CARDS		
INTRODUCTION OF PAGEMAKER		
IMPLEMENTATION OF TEXT EDITING, TEXT FORMATTING IN PAGEMAKER		
CREATION OF MASTER PAGES IN PAGEMAKER		
IMPLEMENTATION OF GRAPHICS & OBJECTS IN PAGEMAN	(ER	
MANAGING & PRINTING PUBLICATION IN PAGEMAKER		
INTRODUCTION OF PHOTOSHOP		
MANAGEMENT OF FILE IN PHOTOSHOP		
PROCESSING ON IMAGE IN PHOTOSHOP		
LAYERS SELECTION & VIEW		
IMPLEMENTATION OF FILTERS IN PHOTOSHOP		
INTRODUCTION OF COREL DRAW		
CREATION & SELECTION OF DRAWING		
WORKING WITH TEXT		
Working with Image		
WORKING WITH PAGE LAYOUT & BACKGROUND		
CREATION OF GREETINGS, WEDDING CARDS, POSTER, VI	SITING CARD & PAM PLATE	
SEMESTER - II		
MODULE - 5	MODULE SUBJECT	
C LANGUAGE	SUBJECT CODE - NCL	
FUNDAMENTAL OF C LANGUAGE	C LANGUAGE	
OPERATORS		
DECISION MAKING STATEMENT		
LOOPING STATEMENT		
THE STATEMENT		
AN ARRAY		
FUNCTION		
CHARACTER STRING		

ADVANCE DIPLOMA IN COMPUTER TEACHER TRAINING POINTER	
STRUCTURES	
MODULE - 6	MODULE SUBJECT
C++ LANGUAGE	SUBJECT CODE – NCL2
FUNDAMENTAL OF OBJECT ORIENTED PROGRAMMING	C++ LANGUAGE
PROGRAMMING IN C++	
DATA TYPES, VARIABLE, CONSTANT	
ARRAY	
USER DEFINED FUNCTIONS	
MATHEMATICAL & OTHER FUNCTIONS	
CLASSES & OBJECTS	
CONSTRUCTOR & DESTRUCTOR	
POLYMORPHISM	
OPERATOR OVERLOADING	
INHERITANCE	
FILE HANDLING	
MODULE - 7	MODULE SUBJECT
VISUAL BASIC	SUBJECT CODE – NVB
FUNDAMENTAL OF VISUAL BASIC	VISUAL BASIC
ELEMENT OF VISUAL BASIC	
PROGRAMMING STATEMENTS	
ARRAY N PROCEDURES	
CREATION OF PROJECT	
ACTIVE X CONTROLS IOMA IN COMPUTER T	eacher Training
WORKING WITH GRAPHICS	
DATABASE PROGRAMMING WITH VISUAL BASIC	
MODULE - 8	MODULE SUBJECT
AVAL	SUBJECT CODE – NJL
FUNDAMENTAL OF OBJECT ORIENTED PROGRAMMING JAVA EVOLUTION	AVAL
OVERVIEW OF JAVA LANGUAGE	
CONSTANTS, VARIABLE AND DATA TYPES	
OPERATORS & EXPRESSION	
DECISION MAKING N LOOPING	
CLASSES, OBJECT & METHODS	
ARRAYS, STRINGS & VECTORS	
INTERFACES MULTIPLE INHERITANCE	
PACKAGES	
MANAGING ERRORS & EXCEPTION	
BASIC I/O AND SERIALIZATION	
APPLETS	

Advance Diploma in Computer Teacher Training Advance Diploma in Computer Teacher Training		
<u>COURSE SYLLABUS</u>		
SEMESTER - I		
MODULE - 1		
INTRODUCTION OF COMPUTER		
A. FUNDAMENTAL OF COMPUTER		
A-1 HISTORY OF COMPUTER		
A-2 DEVELOPMENT OF COMPUTER		
A-3 TYPES OF COMPUTER		
A-4 INPUT & DUTPUT DEVICE		
A-5 MEMORY		
A-6 PERSONAL COMPUTER		
B. DPERATING SYSTEM B-1 Introduction of Windows XP, 2007, 2008		
B-2 FUNCTION OF OPERATING SYSTEM		
B-3 Types of operating system AC B-4 User interface (e.g.:-taskbar, icon, start menu) 1211119		
C. DESIGN TOOLS & PROGRAMMING LANGUAGE C-1 Introduction of design tools C-2 Introduction of flow chart C-3 Introduction of programming language		
D. MS WORD 2007 D-1 Introduction of word processing		
D-1.1 STEPS OF WORD PROCESSING		
D-1.2 OPENING WORD PROCESSING PACKAGES		
D-1.3 MENU BAR		
D-1.4 USING SHORTCUT		
D-1.5 USING BUTTONS/TOOLS		
D-2 OPENING, CLOSING & PRINTING DOCUMENTS		
D-2.1 OPENING DOCUMENTS		
D-2.2 SAVE & SAVE AS		
D-2.3 PAGE SET-UP		
D-2.4 PRINTING & PREVIEW		
D-2.4 PRINTING & PREVIEW D-3 DOCUMENT CREATION & MANIPULATION		
D-3.1 DOCUMENT CREATION		

ADVANCE DIPLOMA IN COMPUTER TEACHER TRAINING
D-3.2 EDITING TEXT
D-3.3 TEXT SELECTION
D-3.4 CUT, COPY, PASTE
D-3.5 TEXT AND PARAGRAPH DELETION
D-4 TEXTS FORMATTING
D-4.1 TEXT FONT & SIZE CHANGE
D-4.2 ALIGNMENT OF TEXT
D-4.3 CASES CHANGING
D-4.4 ALIGNMENT OF PARAGRAPH
D-4.5 SPACING & COLORING OF PARAGRAPH
D-4.6 BULLETS & INDENTATION
D-5 UPADATION OF PAGE LAYOUT
D-5.1 CHANGE OF ORIENTATION OF PAGE
D-5.2 CHANGE OF SIZE OF PAGE
D-5.3 CREATIONS OF COLUMNS
D-5.4 IMPLEMENT WATERMARKS, PAGE COLOR AND BORDERS
D-6 VIEW & REVIEW DOCUMENT
D-6.1 CHANGE IN LAYOUT
D-6.2 SHOW/HIDE RULERS & GRIDS
D-6.3 IMPLEMENT ZOOM VIEW
D-6.4 REVIEW OF DOCUMENT SUCH AS CHECKING
SPELLING & GRAMMAR
D-6.5 IMPLEMENT THE ASURUES, COMMENT
D-7 MAILING DOCUMENT
Advane-7.1 MAIL MERGE PROCESS puter Teacher Training D-7.2 PRINTING & SENDING OF MAILS
D-7.3 CREATION OF ENVELOPS, LETTERS & LABELS
D-8 TABLE MANIPULATION
D-8.1 DRAW TABLE
D-8.2 CHANGING CELL WIDTH & HEIGHT
D-8.3 ALIGNMENT OF TEXT IN CELL
D-8.4 DELETION/INSERTION OF ROW & COLUMN
D-8.5 BORDER & SHADING
E. MS POWERPOINT 2007
E-1 INTRODUCTION OF PRESENTATION
E-1.1 OPENING PRESENTATION
E-1.2 SAVING PRESENTATION
E-1.3 PRINTING PRESENTATION
E-2 CREATION OF PRESENTATION
E-2.1 CREATING A PRESENTATION USING A TEMPLATE
E-2.2 CREATING A BLANK PRESENTATION
E-2.3 ENTERING & EDITING TEXT
E-2.4 INSERTING & DELETING SLIDES IN A PRESENTATION
E-3 PREPARATIONS OF SLIDES

ADVANCE DIPLOMA IN COMPUTER TEACHER TRAINING	
E-3.1 ADDING PICTURE, CLIPART, SHAPES	
E-3.2 INSERT TABLE, CHART, SMART ART, WORD ART	
E-3.3 INSERTING OTHER OBJECTS	
E-4 FORMATION OF PRESENTATION	
E-4.1 WORKING WITH COLOR & TEXTURES	
E-4.2 CHANGE FONT & SIZE OF TEXT	
E-4.3 CHANGE ALIGNMENT	
E-4.4 IMPLEMENT BULLETS, NUMBERING & INDENTATION	
E-4.5 SPACING & CASE CHANGE	
E-5 VIEW & REVIEW OF PRESENTATION	
E-5.1 IMPLEMENTATION OF LAYOUT	
E-5.2 SHOW & HIDE RULERS & GRIDLINES	
E-5.3 REVIEW OF PRESENTATION SUCH AS SPELLING CHECK &	
GRAMMAR	
E-5.4 IMPLEMENT THESAURUSES AND COMMENT	
E-6 DESIGNING & ANIMATION OF PRESENTATION	
E-6.1 IMPLEMENTATION OF ORIENTATION	
E-6.2 IMPLEMENTATION OF THEMES & BACKGROUND	
E-6.3 IMPLEMENTATION OF ANIMATION & SLIDE TRANSITION	
E-6.4 IMPLEMENTATION OF MOVIE & SOUND	
E-7 SLIDE SHOWS	
E-7.1 RUNNING A SLIDE SHOW	
E-7.2 TRANSITION & SLIDE TIMING	
E-7.3 AUTOMATING A SLIDE SHOW	
Advance Diploma in Computer Teacher Training	
F-1 INTRODUCTION OF MS EXCEL	
F-1.1 CREATION OF WORKBOOK	
F-1.2 OPENING OF SPREADSHEET	
F-1.3 SAVING OF SPREADSHEET	
F-1.4 PRINTING OF SPREADSHEET	
F-2 MANIPULATIONS OF CELLS	
F-2.1 ENTERING TEXTS & DATES	
F-2.2 EDITING WORKSHEET DATA	
F-2.3 INSERTING & DELETING ROW, COLUMN & SHEETS	
F-2.4 CHANGING CELL HEIGHT & WIDTH	
F-2.5 FORMATTING OF ROW, COLUMN & SHEETS	
F-2.6 IMPLEMENTING SORTING & FILTERING	
F-3 FUNCTION & CHARTS	
F-3.1 USING FORMULAE'S	
F-3.2 USING FUNCTION	
F-3.3 USING CHART	
F-4 VIEW & REVIEW OF WORKSHEET	
F-4.1 APPLYING DIFFERENT LAYOUTS OF WORKSHEET	
F-4.2 SHOW/HIDE RULER, GRIDLINES, HEADING	

© All rights reserved. All copyright of this competency based curriculum is solely and exclusively owned by Navodaya-CSM (Rajasthan), INDIA. Page 7 of 30

ADVANCE DIPLOMA IN COMPUTER TEACHER TRAINING
F-4.3 VERIFY SPELLING & GRAMMAR
F-4.4 IMPLEMENT THESAURUS & COMMENTS
G. MS ACCESS 2007
G-1 INTRODUCTION OF MS ACCESS
G-1.1INTRODUCTION OF DATABASE
G-1.2 INTRODUCTION PRIMARY KEY
G-1.3 INTRODUCTION OF RELATIONSHIP
G-1.4 CREATION OF DATABASE
G-1.5 OPENING & SAVING OF DATABASE
G-1.6 SAVING & PRINTING OF DATABASE
G-2 INTRODUCTION OF TABLE
G-2.1 INTRODUCTION OF TABLE
G-2.2 INTRODUCTIONS OF DATA TYPES
G-2.3 INTRODUCTION OF TYPES OF DATA TYPES
G-2.4 CREATION OF TABLE
G-2.5 OPENING & SAVING OF TABLE
G-2.6 SAVING & PRINTING OF TABLE
G-3 INTRODUCTION OF QUERY
G-3.1 INTRODUCTION OF QUERY
G-3.2 CREATION OF QUERY
G-3.3 OPENING & SAVING OF QUERY
G-3.4 SAVING & PRINTING OF QUERY
G-3.5 FORMATTING OF QUERY
Advertise of the second state of the second st
G-4.1 INTRODUCTION OF FORM
G-4.2 CREATION OF FORM
G-4.3 OPENING & SAVING OF FORM
G-4.4 SAVING & PRINTING OF FORM
G-4.5 FORMATTING OF FORM
G-5 INTRODUCTION OF REPORT
G-5.1 INTRODUCTION OF REPORT
G-5.2 CREATION OF REPORT
G-5.3 OPENING & SAVING OF REPORT
G-5.4 SAVING & PRINTING OF REPORT
G-5.5 FORMATTING OF REPORT
H. COMMUNICATION
H-1 INTRODUCTION OF COMMUNICATION
H-1.1 TYPES OF COMMUNICATION
H-1.2 PROCESS OF COMMUNICATION
H-1.3 ONLINE & OFFLINE OF COMMUNICATION
H-2 INTRODUCTION OF E-MAIL
H-2.1 USING OF E-MAIL
© All rights reserved. All copyright of this competency based curriculum is solely and exclusively owned by Navodaya-CSM (Rajasthan), INDIA. Page 8 of 30

H-2.2 PROCESS OF SENDING & RECEIVING OF E-MAIL

- H-2.3 PROCESS OF ATTACHMENT OF DOCUMENT WITH E-MAIL
- H-2.4 CREATION & LOGIN PROCESS OF E-MAIL ACCOUNT

H-2.5 DIFFERENT TRANSMISSION MEDIUM

I. NETWORK & INTERNET

I-1 INTRODUCTION OF NETWORK

I-1.1 TYPES OF NETWORK

I-1.2 TYPES OF NETWORK TOPOLOGY

I-2 INTRODUCTION OF INTERNET

- I-2.1 BASIC STRUCTURE OF INTERNET ARCHITECTURE
- **I-2.2** INTRODUCTION OF INTERNET SERVICE PROVIDER
- 1-2.3 INTRODUCTIONS OF INTERNET PROTOCOLS

I-3 SERVICE ON INTERNET

- 1-3.1 WORLD WIDE WEB & WEBSITES
- **I-3.2 INTERNET SERVICES**
- **I-3.3 COMMUNICATIONS ON INTERNET**

I-4 PREPARING COMPUTER FOR INTERNET ACCESS

- 1-4.1 ISP'S SUCH AS DIAL-UP/BROADBAND/WI-FI
- I-4.2 ACCESS TECHNIQUES

I-5 WEB BROWSERS

- 1-5.1 INTRODUCTION OF WEB BROWSER
- 1-5.2 INTRODUCTION OF POPULAR WEB BROWSING SOFTWARE

1-5.3 CONFIGURING WEB BROWSER Teacher Training

I-6 SEARCH ENGINE

- I-6.1 INTRODUCTION OF SEARCH ENGINE
- I-6.2 SURFING/ SEARCHING OF CONTENTS
- I-6.3 DOWNLOADING/UPLOADING
- I-6.4 PRINTING THE WEBPAGE

MODULE - 2

FINANCIAL ACCOUNTING WITH TALLY 7.2, 9.0 ERP

A. MANUAL ACCOUNTING

- A-1 INTRODUCTION OF ACCOUNTING
- A-2 BASIC CONCEPT OF ACCOUNTING
- A-3 RULES OF ACCOUNTS
- A-4 TYPES OF RULES
- A-5 SIMPLE & COMPOUND ENTRIES OF ACCOUNTS
- A-6 INTRODUCTION OF JOURNALS
- A-7 INTRODUCTION OF FINAL ACCOUNTS
- A-8 PREPARATION OF TRIAL BALANCE, TRADING ACCOUNTS, PROFIT & LOSS ACCOUNT & BALANCE SHEET
- A-9 PREPARATION OF CLOSING ENTRIES
- A-10 RECTIFICATION OF ERRORS

B. ACCOUNTING IN TALLY 7.2, 9.0ERP

B-1 CREATION OF COMPANY

- **B-2** CREATION OF LEDGER IN COMPANY
- **B-3** POSTING ENTRIES IN DIFFERENT VOUCHERS
- B-4 SELECTION, SHUTTING, ALTERATION & DELETION OF COMPANY
- B-5 ALTERATION & DELETION OF LEDGER & VOUCHER IN TALLY

C. CUSTOMIZATION OF COMPANY

- C-1 ACTIVATION OF GENERAL FEATURES OF ACCOUNTS
- C-2 ACTIVATION OF INVOICING FEATURES SUCH AS PURCHASE & SALES ORDERS, DEBIT & CREDIT FEATURES
- C-3 ACTIVATION OF COST CATEGORY & CENTERS
- C-4 ACTIVATION OF INTEREST CALCULATION OF COMPANY
- C-5 ACTIVATION OF BUDGET & CONTROL
- **C-6** ACTIVATION OF STOCK CATEGORIES CREATION
- C-7 ACTIVATION OF DISCOUNT COLUMN ON INVOICE
- C-8 ACTIVATION OF GODOWN
- C-9 ACTIVATION OF PRICELIST

D. ACCOUNT WITH INVENTORY IN TALLY 7.2, 9.0ERP

- **D-1** INTRODUCTION OF INVENTORY
- D-2 ACTIVATION OF INVENTORY FEATURE IN COMPANY
- D-3 CREATION OF STOCK GROUP, STOCK ITEM & UNIT OF MEASURES
- D-4 POSTING ENTRIES IN INVOICE MODE D-5 CREATION OF INVOICE COMPUTER Teacher Training
- D-6 ALTERATION & DELETION OF INVOICE
- D-7 PRINTING OF INVOICE

E. VALUE ADDED TAX (VAT)

- E-1 INTRODUCTION OF VAT
- E-2 TYPES OF VAT
- E-3 TYPES OF RATES
- E-4 ACTIVATION OF VAT IN COMPANY
- E-5 ACTIVATION OF FEATURES RELATED TO VAT IN COMPANY
- E-6 ACTIVATION OF INPUT & OUTPUT VAT ON INVOICE
- E-7 ACCESSING OF VAT REFUNDABLE OR VAT PAYABLE
- E-8 ACCESSING OF VAT REPORT
- E-9 PRINTING OF VAT REPORT

F. CENTRAL SALE TAX (CST)

- F-1 INTRODUCTION OF CST
- F-2 INTRODUCTION OF TYPES OF CST
- F-3 INTRODUCTION OF RATES OF CST

F-4 INTRODUCTION OF DIFFERENT FORMS OF CST

- F-5 POSTING OF CST ENTRIES IN TALLY
- F-6 REVIEW OF CST REPORT IN TALLY
- F-7 PRINTING CST REPORT

G. SERVICE TAX

- G-1 INTRODUCTION OF SERVICE TAX
- G-2 ACTIVATION OF SERVICE TAX FEATURE IN TALLY
- G-3 BASIC DETAILS OF SERVICE TAX
- G-4 INTRODUCTION OF EDUCATION CESS & SECONDARY EDU CESS
- G-5 POSTING OF ENTRIES OF SERVICE TAX IN TALLY
- G-6 ACCESSING & REVIE OF SERVICE TAX REPORT IN TALLY
- G-7 PRINTING REPORT OF SERVICE TAX

H. EXCISE DUTY

H-1INTRODUCTION OF EXCISE DUTY

- H-2 INTRODUCTION OF TYPES OF EXCISE DUTY
- H-3 ACTIVATION OF FEATURE RELATED TO EXCISE DUTY
- H-4 CREATION OF LEDGER, STOCK RELATED TO EXCISEDUTY
- H-5 POSTING ENTRIES IN VOUCHER & INVOICE
- H-6 PREPARE & ACCESSING OF EXCISE REPORT IN TALLY
- H-7 PRINTING OF EXCISE REPORT

I. TAX COLLECT AT SOURCE (TCS)

- Advance-Diplometres Computer Teacher Training
 - I-2 ACTIVATION OF FEATURES RELATED TO TCS
 - I-3 CREATION OF LEDGER & STOCK RELATED TO TCS
 - I-4 POSTING ENTRIES IN VOUCHER & INVOICE
 - I-5 PREPARE & ACCESSING OF TCS REPORT IN TALLY
 - I-6 PRINTING OF EXCISE REPORT

J. TAX DEDUCTED AT SOURCE (TDS)

- J-1 INTRODUCTION OF TOS
- J-2 ACTIVATION OF FEATURES RELATED TO TDS
- J-3 CREATION OF LEDGER & STOCK RELATED TO TDS
- J-4 POSTING ENTRIES IN VOUCHER & INVOICE
- J-5 PREPARE & ACCESSING OF TDS REPORT IN TALLY
- J-6 PRINTING OF TDS REPORT

MODULE - 3

WEB DESIGNING WITH HTML & FRONTPAGE

A. INTRODUCTION OF HTML

A-1 CONCEPT OF HTML

A-2 CONCEPT OF WEB BROWSER

- A-3 CONCEPT OF CLIENT & SERVER ARCHITURERE
- A-4 CONCEPT OF URL
- A-5 STRUCTURE OF WEBPAGE
- A-6 CONCEPT OF TAGS & ATTRIBUTES

B. DESIGNING OF WEBPAGE & WEBSITE

- B-1 INTRODUCTION OF WEBPAGE & WEBSITE
- B-2 TYPES OF TAGS & ATTRIBUTES
- **B-3** CREATION OF WEBPAGE
- **B-4** INTRODUCTION OF BASIC TAGS
- B-5 INTRODUCTION OF HEADING TAG
- **B-6** INTRODUCTION OF FORMATTING TAG
- B-7 INTRODUCTION OF PARAGRAPH & FONT TAG

C. DESIGNING LIST IN WEBPAGE

- C-1INTRODUCTION OF LISTS
- C-2 INTRODUCTION OF ORDERED LIST
- C-3 CREATION OF WEBPAGE BY ORDERED LIST
- C-4 INTRODUCTION OF UNORDERED LIST
- C-5 CREATION OF WEBPAGE BY UNORDERED LIST
- C-6 INTRODUCTION OF DEFINITION LIST
- C-7 CREATION OF WEBPAGE BY DEFINITION LIST
- C-8 INTRODUCTION OF HORIZONTAL ROW
- C-9 CREATION OF WEBPAGE BY HORIZONTAL ROW
- Cal CINTRODUCTION OF ADDRESS TAGET Teacher Training
- C-11 CREATION OF WEBPAGE BY ADDRESS TAG

D. IMAGE TAG

- D-1 INTRODUCTION OF IMAGE TAG
- D-2 INTRODUCTION OF DIFFERENT ATTRIBUTES OF IMAGE TAG
- D-3 CREATION OF WEBPAGE USING IMAGE TAG
- D-4 INTRODUCTION OF IMAGE MAP
- D-5 INTRODUCTION OF DIFFERENT ATTRIBUTES OF IMAGE MAP
- D-6 CREATION OF WEBPAGE USING IMAGE MAP

E. LINK TAG

- E-1 INTRODUCTION OF LINK
- E-2 INTRODUCTION OF TYPES OF LINK
- E-3 INTRODUCTION OF INTERNAL & EXTERNAL LINK
- E-4 CREATION OF WEBPAGE THROUGH LINK
- E-5 CONCEPT OF HYPERLINK
- E-6 INTRODUCTION OF LINK OF DIFFERENT WEBPAGES
- E-7 INTRODUCTION OF IMAGE LINK
- E-8 CREATION OF WEBPAGE USING IMAGE LINK

F. FRAME TAG

- F-1 INTRODUCTION OF FRAME TAG
- F-2 INTRODUCTION OF DIFFERENT ATTRIBUTES OF FRAME TAG
- F-3 CREATION OF WEBPAGE USING FRAME TAG AS ROW & COLUMN WISE
- F-4 INTRODUCTION OF DIFFERENT TYPES OF FRAME

G. TABLE TAG

- G-1 INTRODUCTION OF TABLE TAG
- G-2 INTRODUCTION OF ATTRIBUTES OF TABLE TAG
- G-3 INTRODUCTION OF ALIGNMENT, BACKGROUND OF TABLE
- G-4 INTRODUCTION OF CELL PADDING, CELL SPACING OF TABLE
- G-5 INTRODUCTION OF HEADING & CAPTION OF TABLE
- G-6 INTRODUCTION OF EMPTY CELL OF TABLE
- G-7 INTRODUCTION OF NESTING OF TABLE
- G-8 INTRODUCTION OF FRAME OF TABLE
- G-9 CREATION OF WEBPAGE USING TABLE TAG

H. FORM TAG

- H-1 INTRODUCTION OF FORM TAG
- H-2 INTRODUCTION OF DIFFERENT ATTRIBUTE OF FORM TAG
- H-3 CREATION OF FORM USING FORM TAG

I. DHTML

- HTML Vance Diploma in Computer Teacher Training
- I-2 INTRODUCTION OF CASCADING STYLE SHEETS
- I-3 INTRODUCTION OF ATTRIBUTES OF STYLE
- I-4 CREATION OF WEBPAGE USING DIFFERENT ATTRIBUTES OF STYLE

MODULE - 4

DESKTOP PUBLICATION

1. DTP

- A-1 INTRODUCTION OF DTP
- A-2 INTRODUCTION OF NEWSLETTER & LETTER HEADS
- A-3 INTRODUCTION OF ADVERTISEMENT & VISITING CARD

2. PAGEMAKER

- A-1 INTRODUCTION OF PAGEMAKER
- A-2 IMPLEMENTATION OF PAGEMAKER
- A-3 USES OF PAGEMAKER
- A-4 WORKING ITH PAGEMAKER
- A-5 INTRODUCTION OF PAGEMAKER WINDOWS
- A-6 INTRODUCTION OF TOOLS OF PAGEMAKER

ADVANCE DIPLOMA IN COMPUTER TEACHER TRAINING	
A-7 INTRODUCTION OF MASTERPAGES	
A-8 WORKING WITH PUBLICATION	
A-9 WORKING WITH TEXT	
A-10 CHANGING THE VIEW OF PAGES	
A-11 IMPORTING TEXT & GRAPHICS	
A-12 SAVING & CLOSING OF PUBLICATION	
B. TEXT EDITING	
B-1 INTRODUCTION OF EDITING PUBLICATION	
B-2 OPENING AN EXISTING PUBLICATION	
B-3 EDITING IN A PUBLICATION	
B-4 IV INTRODUCTION OF STORY EDITOR	
B-5 OPENING STORY EDITOR	
B-6 FINDING & REPLACING OF A WORD IN STORY	
B-7 VII CHECKING SPELLING IN THE PUBLICATION	
B-8 CLOSING THE STORY EDITOR	
B-9 CORRECTING MISTAKES	
B-10 USE OF REVERT OPTION	
C. TEXT FORMATTING	
C-1 INTRODUCTION OF TEXT FORMATTING	
C-2 CHANGING FONT	
C-3 ADJUSTING THE GRAPHIC ALONG THE TEXT	
C-4 CHANGING FONT SIZE & STYLE	
Advestreaching & KERNING Stylesputer Teacher Training	
C-6 INTRODUCTION OF STYLE SHEET	
C-7 CREATING STYLE SHEET	
C-8 SPECIFYING CHARACTER & PARAGRAPH ATTRIBUTES OF STYLE	
C-9 APPLYING A STYLE FROM STYLE SHEET	
C-10 IMPORTING STYLES	
C-11 APPLYING BULLETS & NUMBERING	
D. MASTER PAGES	
D-1 INTRODUCTION OF MASTER PAGES	
D-2 ADDING TEXT TO THE PUBLICATION	
D-3 INTRODUCTION OF AUTOFLOW	
D-4 CREATION OF MASTER PAGES	
D-5 PLACING ELEMENTS ON MASTER PAGES	
D-6 PLACING HEADER & PAGE NUMBER	
D-7 ADDING COLUMNS TO THE PUBLICATION	
D-8 APPLYING A MASTER PAGES	
D-9 EDITING A MASTER PAGES	

D-10 APPLYING ALIGNMENTS & LEADING

E. GRAPHICS & OBJECTS

- E-1 INTRODUCTION OF GRAPHICS & OBJECTS
- E-2 GETTING FAMILIAR WITH THE TOOLS
- E-3 CREATION OF GRAPHICS
- E-4 DISPLAY COLOR PALETTE
- E-5ADDING TEXT TO THE GRAPHICS
- E-6 WRAPPING TEXT AROUND A GRAPHICS
- E-7 IMPORTING GRAPHICS
- E-8 RESIZING A GRAPHICS
- E-9 MOVING A GRAPHIC
- E-10 ADDING CAPTION FOR THE GRAPHICS
- E-11CROPPING A GRAPHICS
- E-12 GROUPING & UNGROUPING ELEMENTS
- E-13 LINKS & SETTING DEFAULT LINK OPTION
- E-14 LINKS MANAGER
- E-15 CHANGING THE LINK OPTION

F. MANAGING & PRINTING PUBLICATION

- F-1 INTRODUCTION OF MANAGING & PRINTING OF PUBLICATION
- F-2 INTRODUCTION OF PAGE SETTING OF PAGEMAKER
- F-3 INTRODUCTION OF TABLE CONTENTS
- F-4 SETTING HEADING LEVELS FOR TOC
- F-5 CREATING A TOC
- F-6 CREATION OF BOOK
- Ad FEZERINTING A PUBLICATION OMPUTER Teacher Training

3. PHOTOSHOP

A.INTRODUCTION OF PHOTOSHOP

- A-1 LOADING PROCESS OF PHOTOSHOP
- A-2 INTRODUCTION OF PHOTOSHOP PROGRAM WINDOWS
- A-3 INTRODUCTION OF TOOLBOX
- A -4 USES OF TOOLS OF PHOTOSHOP

B. MANAGEMENT OF FILE

- B-1 INTRODUCTION OF MANAGEMENT
- B-2 OPENING FILE IN PHOTOSHOP
- B-3 FILLING COLOR
- B-4 SAVING A FILE
- **B-5** ADDING INFORMATION TO FILE
- B-6 SETTING PAGE SETUP
- B-7 ADDITION OF EXTRA FILES IN PHOTOSHOP
- **B-8** FILE BROWSING
- B-9 CREATION OF WEB PHOTO GALLERY

B-10 CREATION OF PHOTO ALBUM

C. PROCESSING ON IMAGE

- C-1 INTRODUCTION OF PROCESSING ON IMAGE
- C-2 CHANGING MODE OF PHOTO
- C-3 APPLYING ADJUSTMENT
- C-4 MAINTAIN COLOR BALANCE
- C-5 APPLY STROKE
- C-6 APPLYING FREE TRANSFORMATION
- C-7 APPLYING ROTATION, SKEW & SCROLLING

D. EDITING FILE

- D-1 INTRODUCTION OF EDITING
- D-2 APPLYING CUT, COPY & PASTE
- D-3 FINDING & CHECKING OF WORD
- D-4 CREATION OF BRUSHES
- D-5 APPLYING PRESET MANAGER
- D-6 SETTING OF IMAGE & CANVAS SIZE
- D-7 APPLYING CROP ON PHOTOSHOP

E. TOOLS OF PHOTOSHOP

- E-1 INTRODUCTION OF TOOLS
- E-2 USE OF DIFFERENT TOOLS
- E-3 CREATE PHOTO WITH DIFFERENT TOOLS

Advance Diploma in Computer Teacher Training

F. LAYER SELECTION & VIEW

- F-1 INTRODUCTION OF LAYER
- F-2 USE OF LAYER IN PHOTOSHOP
- F-3 ADJUSTMENT OF LAYERS
- F-4 DUPLICATION & DELETION OF LAYERS
- F-5 STYLES OF LAYERS
- F-6 TYPES OF LAYERS
- F-7 COLOR BALANCE OF LAYERS
- F-8 FEATHER & MODIFIED OF LAYERS
- F-9 CUSTOMIZE OF VIEWS
- F-10 SHOW/HIDE OF TOOLS OF PHOTOSHOP

G. FILTERS

- G-1 INTRODUCTION OF FILTERS
- G-2 TYPES OF FILTERS
- G-3 USES OF FILTERS
- G-4 IMPLEMENTATION OF FILTERS ON PHOTO

4. COREL DRAW

A. INTRODUCTION OF CORELDRAW

- A-1 LOADING OF CORELDRAW
- A-2 CREATING A NEW FILE
- A-3 INTRODUCTION OF DIFFERENT TOOL BARS
- A-4 INTRODUCTION OF TOOLS OF CORELDRAW
- A-5 DRAW GEOMETRIC FIGURES
- A-6 SAVING A FILE
- A-7 CLOSING A FILE
- A-8 OPENING AN EXISTING FILE
- A-9 INTRODUCTION OF VIEWS
- A-10 IMPLEMENTATION OF DIFFERENT VIEWS OF CORELDRAW
- A-11 IMPLEMENTATION OF ZOOM
- A-12 IMPLEMENTATION OF VIEW MANAGER

B. CREATION & SELECTION OF DRAWING

- B-1 GETTING FAMILIAR WITH TOOLBOX
- B-2 GETTING STARTED WITH PROJECT
- B-3 SELECTING AN OBJECT
- B-4 RESIZING AN OBJECT
- B-5 MOVING AN OBJECT
- B-6 CHANGING THE SHAPE OF AN OBJECT
- B-7 COMBINING TWO OBJECTS
- B-8 SKEWING AN OBJECT
- B-9 DRAWING A POLYGON
- Adventove-Dipolthenesie: Computer Teacher Training
 - B-11 BLENDING TWO OBJECT
 - B-12 USE OF ARTISTIC MEDIA TOOL
 - B-13 ROTATING AN OBJECT
 - B-14 FILLING AN OBJECT WITH COLOR
 - B-15 POSTSCRIPT FILL DIALOG TOOL

C. WORKING WITH TEXT

- C-1 INTRODUCTION OF TEXT TOOL
- C-2 INTRODUCTION OF ARTISTIC & PARAGRAPH TEXT
- C-3 CREATION OF BOOK COVER
- C-4 FORMATTING THE TEXT
- C-5 ARRANGING OBJECTS
- C-6 ORDERING THE OBJECTS
- C-7 USES OF WEBDINGS

D. WORKING WITH IMAGE

- D-1 INTRODUCTION OF IMAGE
- D-2 TYPES OF IMAGES
- D-3 IMPORTING IMAGES

- D-4 RESIZING, ROTATING & SKEWING IMAGES
- D-5 MOVING & CROPPING OF IMAGE
- D-6 IMPORTING IMAGES FROM A CD
- D-7 ADDING SPECIAL EFFECTS TO BITMAPS
- D-8 INTRODUCTION OF 3D EFFECTS
- D-9 EXPORTING IMAGE TO OTHER APPLICATIONS

E. WORKING WITH PAGE LAYOUT & BACKGROUND

- E-1 INTRODUCTION OF PAGE LAYOUT & BACKGROUND
- E-2 CHANGING PAGE SIZE, TYPE, ORIENTATION
- E-3 CHANGING THE PAGE LAYOUT & USE OF DIFFERENT LAYOUT
- E-4 APPLYING LAYOUT STYLES
- E-5 CHANGING PAGE BACKGROUND
- E-6 APPLYING BITMAPS TO BACKGROUND
- E-7 ADDING PAGE FRAME
- E-8 ADDING PAGES

SEMESTER - II

MODULE - 5

C LANGUAGE

A. FUNDAMENTAL OF C LANGUAGE

A-1 HISTORY OF C LANGUAGE

- A-2 FEATURES OF C LANGUAGE
- A-3 BASIC STRUCTURE OF C LANGUAGE
- A-4 PROGRAM DEVELOPMENT OF C LANGUAGE COLOR TRAINING
- A-5 COMPONENTS OF C LANGUAGE
- A-6 C TOKENS
- A-7 TYPES OF DATA TYPES
- A-8 INTRODUCTION OF ESCAPE SEQUENCES
- A-9 INTRODUCTION OF FORMAT SPECIFIERS
- A-10 INTRODUCTION OF STANDARD INPUT & OUTPUT FUNCTION
- A-11EXAMPLES OF C PROGRAM

B. OPERATORS

B-1 INTRODUCTION OF OPERATORS **B-2** TYPES OF OPERATORS **B-3** WORKING WITH ASSIGNMENT OPERATOR **B-4 WORKING WITH ARITHMATIC OPERATOR B-5 WORKING WITH ADDRESS OPERATOR B-6** WORKING WITH RELATIONAL OPERATOR **B-7** WORKING WITH LOGICAL OPERATOR **B-8** WORKING WITH SIZE OF OPERATOR **B-9** WORKING WITH CONDITIONAL OPERATOR B-10 WORKING WITH INCREMENT/DECREMENT OPERATOR B-11 WORKING WITH UNARY MINUS OPERATOR

C. DECISION MAKING STATEMENT

ADVANCE DIPLOMA IN COMPUTER TEACHER TRAINING	
C-1 INTRODUCTION OF STATEMENT	
C-2 TYPES OF STATEMENT	
C-3 DECISION STATEMENT	
C-3.1 DECISION STATEMENT WITH IF STATEMENT	
C-3.11 STRUCTURE & SYNTAX OF IF STATEMENT	
C-3.111 CREATION OF PROGRAM WITH IF STATEMENT	
C-4	
C-4.1 DECISION STATEMENT WITH IF ELSE STATEMENT	
C-4.11 STRUCTURE & SYNTAX OF IF ELSE STATEMENT	
C-4.111 CREATION OF PROGRAM WITH IF ELSE STATEMENT	
C-5	
C-5.I DECISION STATEMENT WITH NESTED IF ELSE STATEMENT	
C-5.11 STRUCTURE & SYNTAX OF NESTED IF ELSE STATEMENT	
C-5.111 CREATION OF PROGRAM WITH NESTED IF ELSESTATEMENT	
C-6	
C-6.1 DECISION STATEMENT WITH ELSE IF LADDER STATEMENT	
C-6.11 STRUCTURE & SYNTAX OF ELSE IF LADDER STATEMENT	
C-6.111 CREATION OF PROGRAM WITH ELSE IF LADDER STATEMENT	
C-7	
C-7.1 DECISION STATEMENT WITH SWITCH STATEMENT	
C-7.11 STRUCTURE & SYNTAX OF SWITCH STATEMENT	
C-7.111 CREATION OF PROGRAM WITH SWITCH STATEMENT	
D. LOOPING STATEMENT	
D-1 INTRODUCTION OF LOOPING STATEMENT	
D-2 TYPES OF LOOPING STATEMENT	
D-3 WHILE LOOP	
D-3.I INTRODUCTION OF WHILE LOOP STATEMENT D-3.II STRUCTURE & SYNTAX OF WHILE LOOP STATEMENT	
D-3.III CREATION OF PROGRAM WITH WHILE LOOP STATEMENT	
D-4 DD WHILE STATEMENT	
D-4.I INTRODUCTION OF DO WHILE LOOP STATEMENT	
D-4.11 STRUCTURE & SYNTAX OF DO WHILE LOOP STATEMENT	
D-4.III CREATION OF PROGRAM WITH DO WHILE LOOPSTATEMENT	
D-5 FOR LOOP STATEMENT	
D-5.I INTRODUCTION OF FOR LOOP STATEMENT	
D-5.11 STRUCTURE & SYNTAX OF FOR LOOP STATEMENT	
D-5.III CREATION OF PROGRAM WITH FOR LOOP STATEMENT	
D-6 NESTED FOR LOOP STATEMENT	
D-6.I INTRODUCTION OF NESTED FOR LOOP STATEMENT	
D-6.11 STRUCTURE & SYNTAX OF NESTED FOR LOOP STATEMENT	
D-6.IIICREATION OF PROGRAM WITH NESTED FOR LOOP	
STATEMENT	
E. THE STATEMENT	
E-1 INTRODUCTION OF STATEMENT	
E-2 INTRODUCTION OF JUMP STATEMENT	
E-3 INTRODUCTION OF BREAK STATEMENT	

E-6 INTRODUCTION OF CONTINUE STATEMENT

E-7 STRUCTURE & SYNTAX OF CONTINUE STATEMENT

E-8 PROGRAM CREATION USING CONTINUE STATEMENT

F. AN ARRAY

- F-1 INTRODUCTION OF ARRAY
- F-2 TYPES OF ARRAY
- F-3 ONE DIMENSIONAL ARRAY
 - F-3.I INTRODUCTION OF ONE DIMENSIONAL ARRAY
 - F-3.11 DECLARATION OF ONE DIMENSIONAL ARRAY
 - F-3.111 INTIALISATION OF ONE DIMENSIONAL ARRAY
- F-3.IV PROGRAM CREATION USING ONE DIMENSIONAL ARRAY

F-4 TWO DIMENSIONAL ARRAY

- F-4.I INTRODUCTION OF TWO DIMENSIONAL ARRAY
- F-4.11 DECLARATION OF TWO DIMENSIONAL ARRAY
- F-4.III INTIALISATION OF TWO DIMENSIONAL ARRAY
- F-4.IV PROGRAM CREATION USING TWO DIMENSIONAL ARRAY

G. FUNCTION

- G-1 INTRODUCTION OF FUNCTION
- G-2 TYPES OF FUNCTION
- G-3 ADVANTAGES OF FUNCTION
- G-4 IMPLEMENTATION OF FUNCTION
- G-5 DECLARATION OF FUNCTION
- G-6 CALLING A FUNCTION
- G-7 DEFINING OF USER DEFINED FUNCTION
- G-8 INTRODUCTION OF ACTUAL PARAMETER
- G-9 INTRODUCTION OF FORMAL PARAMETER
- dvaleverenversionalised and the second s
 - G-11 INTRODUCTION OF CALLED FUNCTION
 - G-12 PROGRAM CREATION USING FUNCTION
 - G-13 CALLING A FUNCTION
 - G-13.I INTRODUCTION OF CALLING A FUNCTION
 - G-13.II INTRODUCTION OF CALL BY VALUE
 - G-13.III PROGRAM CREATION USING CALL BY VALUE
 - G-13.IV INTRODUCTION OF CALL BY REFERENCE
 - G-13.V PROGRAM CREATION USING CALL BY REFERENCE
 - G-13.VI FUNCTION WITH NO ARGUMENTS AND NO RETURN VALUE
 - G-13.VII FUNCTION WITH ARGUMENTS AND NO RETURN VALUE
 - G-13.VIII FUNCTION WITH NO ARGUMENTS AND RETURN VALUE
 - G-13.IX FUNCTION WITH ARGUMENTS AND RETURN VALUE
 - G-14 ARRAY & FUNCTION
 - G-14.I INTRODUCTION OF ARRAY & FUNCTION
 - G-14.11 DECLARATION OF ARRAY & FUNCTION
 - G-14.III PROGRAM CREATION USING ARRAY & FUNCTION
 - G-15 RECURSIVE FUNCTION
 - G-15.I INTRODUCTION OF RECURSIVE FUNCTION
 - G-15.11 DECLARATION OF RECURSIVE FUNCTION
 - G-15.III PROGRAM CREATION USING RECURSIVE FUNCTION
 - G-16 STORAGE CLASSES
 - G-16.I INTRODUCTION OF STORAGE CLASSES
 - G-16.II TYPES OF STORAGE CLASSES

G-16.III INTRODUCTION OF AUTOMATIC VARIABLE

G-16.IV INTRODUCTION OF EXTERNAL VARIABLE

G-16.V INTRODUCTION OF STATIC VARIABLE

G-16.VI INTRODUCTION OF REGISTER VARIABLE

H. CHARACTER STRING

- H-1 INTRODUCTION OF STRING
- H-2 DECLARATION & INITIALISATION OF STRING VARIABLE
- H-3 READING STRING FROM TERMINAL
- H-4 WRITING STRING TO SCREEN
- H-5 STRING HANDLING LIBRARY FUNCTION
- H-6 PROGRAM CREATION USING CHARACTER STRINGS
- H-7 2-D STRING ARRAY
 - H-7.I INTRODUCTION OF 2-D STRING ARRAY
 - H-7.11 DECLARATION OF 2-D STRING ARRAY
 - H-7.111 PROGRAM CREATION USING Z-D STRING ARRAY

I. POINTER

- I-1 INTRODUCTION OF POINTER
- I-Z ADVANTAGES OF POINTER
- I-3 ACCESSING THE ADDRESS OF VARIABLE
- I-4 DECLARATION & INITIALIZATION POINTER
- I-5 ACCESSING A VARIABLE VALUE THROUGH ITS POINTER
- I-6 PROGRAM CREATION USING POINTER
- I-7 POINTER & ARRAY
 - I-7.I INTRODUCTION OF POINTER & ARRAY
 - I-7.II DECLARATION ARRAY WITH POINTER

1-7-III PROGRAM CREATION USING POINTER & ARRAY

I-8 POINTER & CHARACTER STRINGS

- I-8.I INTRODUCTION OF POINTER & CHARACTER STRINGS
- I-8.11 PROGRAM CREATION USING POINTER & CHARACTER STRINGS

I-9 CALL BY REFERENCE

- I-9.I INTRODUCTION OF CALL BY REFERENCE
- I-9.11 PROGRAM CREATION USING CALL BY REFERENCE

J. STRUCTURES

- J-1 INTRODUCTION OF STRUCTURE
- J-2 DEFINING A STRUCTURE
- J-3 DECLARING STRUCTURE VARIABLE
- J-4 ACCESSING STRUCTURE MEMBERS
- J-5 INPUT VALUE IN MEMBERS
- J-6 OUTPUT VALUE IN MEMBERS
- J-7 STRUCTURE INITIZALATION
- J-8 STRUCTURE & SYNTAX OF STRUCTURES
- J-9 PROGRAM CREATION USING STRUCTURE
- J-10 STRUCTURE & ARRAY
 - J-10.I INTRODUCTION OF STRUCTURE & ARRAY
 - J-10.II STRUCTURE N SYNTAX OF STRUCTURE N ARRAY
 - J-10.111 PROGRAM CREATION USING STRUCTURE & ARRAY

ADVANCE DIPLOMA IN COMPUTER TEACHER TRAINING J-11 STRUCTURE WITHIN STRUCTURE J-11.I INTRODUCTION OF STRUCTURE WITHIN STRUCTURES J-11.11 STRUCTURE N SYNTAX OF STRUCTURE WITHIN STRUCTURES J-11.111 DEFINING OF STRUCTURE WITHIN STRUCTURE J-11.IV PROGRAM CREATION USING STRUCTURE WITHIN STRUCTURE J-12 STRUCTURE & FUNCTION J-12.1 INTRODUCTION OF STRUCTURE & FUNCTION J-12.11 STRUCTURE N SYNTAX OF STRUCTURE & FUNCTION J-12.III DEFINING OF STRUCTURE & FUNCTION J-12.IV PROGRAM CREATION USING STRUCTURE & FUNCTION MODULE - 6 C++ LANGUAGE A. FUNDAMENTAL OF OBJECT ORIENTED PROGRAMMING A-1 INTRODUCTION OF OOP'S A-2 FEATURES OF DOP'S A-3 INTRODUCTION OF OBJECTS A-4 INTRODUCTION OF CLASSES A-5 INTRODUCTION OF INHERITANCE A-6 INTRODUCTION OF REUSABILITY A-7 INTRODUCTION OF OVERLOADING A-8 CONCEPT OF OBJECTS & CLASSES **B. PROGRAMMING IN C++** B-1 INTRODUCTION OF PROGRAMMING B-2 INTRODUCTION OF CHARACTER SETER TEACHER TRAINING B-3 INTRODUCTION OF C++ TOKENS B-4 STRUCTURE OF C++ PROGRAM **B-5** INTRODUCTION OF FUNCTION **B-6** INTRODUCTION OF HEADER FILES **B-7** INTRODUCTION OF INPUT/OUTPUT OF c++**B-8** USE OF MANIPULATORS B-9 USE OF EDITOR B-10 USE OF BASIC COMMANDS OF EDITORS B-11INTRODUCTION OF COMPILING & LINKING C. DATA TYPES, VARIABLE, CONSTANT **C-1INTRODUCTION OF CONSTANTS** C-2 TYPES OF CONSTANTS C-3 INTRODUCTION OF DATA TYPES C-4 TYPES OF DATA TYPES C-5 INTRODUCTION OF VARIABLE & INITIALIZATION OF VARIABLE C-6 INTRODUCTION OF OPERATORS & EXPRESSIONS C-7 TYPES OF OPERATORS & EXPRESSIONS C-8 PROGRAM CREATION USING OPERATORS & EXPRESSION C-9 INTRODUCTION OF AUTOMATIC TYPE CONVERSION IN EXPRESSION C-10 INTRODUCTION OF TYPE CASTING

- C-11 INTRODUCTION OF SHORTHANDS OF C++
- C-12 INTRODUCTION OF CONDITIONAL EXPRESSION
- C-13 INTRODUCTION OF NESTED IF
- C-14 INTRODUCTION OF SWITCH CASE DEFAULT
- C-15 PROGRAM CREATION USING CONDITIONAL EXPRESSION
- C-16 INTRODUCTION OF BREAK STATEMENT
- C-17 INTRODUCTION OF LOOP
- C-18 INTRODUCTION OF WHILE, DO WHILE & FOR LOOP
- C-19 PROGRAM CREATION USING LOOPS

D. ARRAY

- D-1 INTRODUCTION OF ARRAY
- D-2 NEED OF ARRAY
- D-3 TYPES OF ARRAY
- D-4 DECLARATION OF ARRAY
- D-5 INITIALISATION OF ONE DIMENSIONAL ARRAY
- D-6 INTRODUCTION N EXAMPLE OF AVERAGE OF ARRAY ELEMENTS
- D-7 INTRODUCTION N EXAMPLE OF LINEAR SEARCHING
- D-8 INTRODUCTION N EXAMPLE OF FINDING MAX/MIN VALUE FROMARRAY
- D-9 DECLARATION OF STRING
- D-10 INITIALISATION OF STRING
- D-11 COUNTING VOWELS/CONSTANTS/DIGITS/SPECIAL CHARACTERS
- D-12 INTRODUCTION OF ISALNUM, ISALPHA, ISDIGIT, ISLOWER, ISUPPER, TOLOWER, TOUPPER, STRCPY,STRCAT,STRLEN,STRCMP
- D-13 INTRODUCTION OF 2-D ARRAY
 - D-13.I DECLARATION OF Z-D ARRAY
 - D-13.11 INITIALIZATION OF 2-D ARRAY

Advand-13.111 INTRODUCTION OF DIAGONAL ELEMENTS TRAINING

E. USER DEFINED FUNCTIONS

- E-1 INTRODUCTION OF USER DEFINED FUNCTION
- E-2 DEFINING OF USER DEFINED FUNCTION
- E-3 INTRODUCTION OF FUNCTION PROTOTYPE
- E-4 INTRODUCTION OF CALLING A FUNCTION
- E-5 INTRODUCTION OF DEFAULT ARGUMENT
- E-6 INTRODUCTION OF CONSTANT ARGUMENT
- E-7 INTRODUCTION OF CALL BY VALUE
- E-8 INTRODUCTION OF CALL BY REFERENCE
- E-9 INTRODUCTION OF RETURNING VALUE FROM A FUNCTION
- E-10 INTRODUCTION OF CALLING A FUNCTION WITH ARRAY
- E-11 INTRODUCTION OF SCOPE RULE OF FUNCTION & VARIABLE

F. MATHEMATICAL & OTHER FUNCTIONS

F-1 INTRODUCTION OF MATHEMATICAL FUNCTION F-2 INTRODUCTION OF STANDARD LIBRARY FILE

G. CLASSES & OBJECTS

G-1 INTRODUCTION OF CLASSES

G-2 INTRODUCTION OF SPECIFYING A CLASS

- G-3 DECLARATION OF CLASSES
- G-4 DEFINITION OF CLASSES INSIDE/ OUTSIDE
- G-5 DECLARATION OF OBJECTS
- G-6 ACCESSING CLASS MEMBER
- G-7 DEFINING MEMBER FUNCTION
- G-8 MAKING AN OUTSIDE INLINE FUNCTION
- G-9 NESTING OF MEMBER FUNCTION
- G-10 PRIVATE MEMBER FUNCTION
- G-11 ARRAY WITHIN A CLASS
- G-12 MEMORY ALLOCATION OF OBJECTS
- G-13 STATIC DATA MEMBERS & FUNCTION MEMBERS
- G-14 ARRAY OF OBJECTS
- G-15 OBJECTS AS FUNCTION
- G-16 RETURNING OBJECTS

H. CONSTRUCTOR & DESTRUCTOR

- H-1 INTRODUCTION OF CONSTRUCTOR
- H-2 SYNTAX N EXAMPLE OF CONSTRUCTOR
- H-3 INTRODUCTION OF DESTRUCTOR
- H-4 INTRODUCTION OF OBJECT & MEMORY
- H-5 INTRODUCTION OF STRUCTURE & CLASS
- H-6 INTRODUCTION OF FREE STORE IN C^{++}
- H-7 INTRODUCTION OF FUNCTION OVERLOADING
- H-8 INTRODUCTION OF COPY CONSTRUCTOR

I. POLYMORPHISM

- I-1 INTRODUCTION OF POLYMORPHISM
- Advizineventages of golymorphismuter Teacher Training
 - 1-3 TYPES OF POLYMORPHISM
 - I-4 INTRODUCTION OF VIRTUAL FUNCTION
 - I-5 SYNTAX N EXAMPLE OF VIRTUAL FUNCTION

J. OPERATOR OVERLOADING

- J-1 INTRODUCTION OF OVERLOADING
- J-2 TYPES OF OVERLOADING
- J-3 INTRODUCTION OF FUNCTION OVERLOADING
- J-4 SYNTAX N EXAMPLE OF FUNCTION OVERLOADING
- J-5 INTRODUCTION OF OPERATOR OVERLOADING
- J-6 SYNTAX N EXAMPLE OF OPERATOR OVERLOADING

K. INHERITANCE

- K-1 INTRODUCTION OF INHERITANCE
- K-2 SYNTAX N EXAMPLE OF INHERITANCE
- K-3 TYPES OF INHERITANCE
- K-4 INTRODUCTION N EXAMPLE OF SIMPLE INHERITANCE
- K-5 INTRODUCTION N EXAMPLE OF MULTIPLE INHERITANCE
- K-6 INTRODUCTION N EXAMPLE OF HIERARCHICAL INHERITANCE
- K-7 INTRODUCTION N EXAMPLE OF MULTILEVEL INHERITANCE

L. FILE HANDLING

L-1 INTRODUCTION OF DATA FILE

L-2 INTRODUCTION OF TEXT FILE

- L-3 INTRODUCTION OF BINARY FILE
- L-4 INTRODUCTION OF INPUT/DUTPUT STREAM
- L-5 INTRODUCTION OF OPENING & DECLARATION OF FILE
- L-6 INTRODUCTION OF CLOSING FILE
- L-7 INTRODUCTION OF TEXT FILE
- L-8 INTRODUCTION OF CHECKING STATE FLAGS
- L-9 READING N WRITING A TEXT FILE USING FSTREAM CLASS
- L-10 EXAMPLES OF FILE HANDLING

MODULE - 7

VISUAL BASIC

A. FUNDAMENTAL OF VISUAL BASIC

- A-1 INTRODUCTION OF VISUAL BASIC
- A-2 GETTING START WITH VISUAL BASIC
- A-3 LOADING PROCESS OF VISUAL BASIC
- A-4 INTRODUCTION OF INTEGRATED DEVELOPMENT ENVIRONMENT
- A-5 FEATURES OF VISUAL BASIC
- A-6 ELEMENTS OF VISUAL BASIC
- A-7 INTRODUCTION OF TOOL BAR
- A-8 INTRODUCTION OF DIFFERENT WINDOWS OF VISUAL BASIC
- A-9 THE APPLICATION WIZARD

B. ELEMENT OF VISUAL BASIC

B-1INTRODUCTION OF DATA TYPES

- B-2 INTRODUCTION OF TYPE STATEMENTS
- B-3 INTRODUCTION N DECLARATION OF VARIABLE
- 8-4 INTRODUCTION OF SCOPE N LIFE TIME OF A VARIABLE CANING
- **B-5** INTRODUCTION OF CONSTANTS

C. PROGRAMMING STATEMENTS

- C-1 INTRODUCTION OF OPERATORS
- C-2 TYPES OF OPERATORS
- C-3 INTRODUCTION OF AN ARITHMETIC OPERATOR
- C-4 FORM N CODING OF AN ARITHMETIC OPERATOR
- C-5 INTRODUCTION FORM N CODING OF COMPARISON OPERATOR
- C-6 INTRODUCTION FORM N CODING OF LOGICAL OPERATOR
- C-7 INTRODUCTION OF CONTROL STRUCTURE
- C-8 INTRODUCTION SYNTAX N CODING OF IF THEN END IF
- C-9 INTRODUCTION SYNTAX N CODING OF IF THEN ELSE END IF
- C-10 INTRODUCTION SYNTAX N CODING OF SELECT CASE
- C-11 introduction syntax N coding of Looping statement
- C-12 INTRODUCTION OF INPUT/OUTPUT BOX

D. ARRAY N PROCEDURES

- D-1 INTRODUCTION OF ARRAY
- D-2 DECLARATION OF ARRAY
- D-3 TYPES OF ARRAY
- D-4 INTRODUCTION N EXAMPLE OF SINGLE DIMENSIONAL ARRAY

- D-5 INTRODUCTION N EXAMPLE OF MULTI DIMENSIONAL ARRAY
- D-6 INTRODUCTION OF DYNAMIC ARRAY
- D-7 INTRODUCTION OF SORTING
- D-8 INTRODUCTION OF CONTROL ARRAY
- D-9 INTRODUCTION OF COLLECTION
- D-10 INTRODUCTION OF PROCEDURES
- D-11 ADVANTAGES OF PROCEDURES
- D-12 TYPES OF PROCEDURES
- D-13 INTRODUCTION OF SUB N FUNCTION PROCEDURES
- D-14 INTRODUCTION OF SUB ROUTINE
- D-15 CODING RELATED PROCEDURES

E. CREATION OF PROJECT

- E-1 INTRODUCTION OF PROJECT
- E-2 ELEMENTS OF PROJECT
- E-3 CREATION RENAMING & SAVING OF PROJECT
- E-4 CREATION OF USER INTERFACE
- E-5 ELEMENTS OF USER INTERFACE
- E-6 INTRODUCTION OF FILE SYSTEM CONTROLS
- E-7 DESIGNING THE USER INTERFACE
- E-8 CREATION AN APPLICATION
- E-9 INTRODUCTION OF EVENT DRIVEN PROGRAMMING & COMMON PROPERTIES, METHODS & EVENTS OF VISUAL BASIC

F. ACTIVE X CONTROLS

F-1 INTRODUCTION OF BASIC ACTIVE X CONTROLS F-2 INTRODUCTION & PROPERTIES OF TEXT BOX F-3 INTRODUCTION, METHODS & PROPERTIES OF LIST BOX PAINING F-4 INTRODUCTION, METHODS & PROPERTIES OF COMBO BOX F-5 INTRODUCTION, METHODS & PROPERTIES OF SCROLL BAR F-6 INTRODUCTION, METHODS & PROPERTIES OF LABEL F-7 INTRODUCTION, METHODS & PROPERTIES OF COMMAND BUTTON F-8 INTRODUCTION OF GROUPING CONTROLS F-9 INTRODUCTION & PROPERTIES OF OPTION BUTTON F-10 INTRODUCTION & PROPERTIES OF FRAME CONTROLS F-11 INTRODUCTION & PROPERTIES OF CHECK CONTROLS F-12 INTRODUCTION & PROPERTIES OF LINE TOOLS F-13 INTRODUCTION & PROPERTIES OF SHAPE TOOLS F-14 INTRODUCTION & PROPERTIES OF PICTURE BOX F-15 INTRODUCTION & PROPERTIES OF IMAGE BOX F-16 INTRODUCTION & PROPERTIES OF COMMON DIALOGS F-17 INTRODUCTION & PROPERTIES OF COLOR DIALOG BOX F-18 INTRODUCTION & PROPERTIES OF FONT DIALOG BOX F-19 INTRODUCTION & PROPERTIES OF OPEN & SAVE DIALOG BOX F-20 INTRODUCTION & PROPERTIES OF PRINT, HELP & IMAGE LIST CONTROL F-21 INTRODUCTION & PROPERTIES OF TREE VIEW & LIST VIEW CONTROL

G. WORKING WITH FORM

- G-1 INTRODUCTION OF FORMS
- G-2 APPEARANCE OF FORMS
- G-3 INTRODUCTION OF FORM PROPERTIES, METHODS, EVENTS
- G-4 INTRODUCTION OF MENUS
- G-5 DESIGNING MENU USING MENU EDITOR
- G-6 ADDING SUB MENU & NESTED MENU
- G-7 INTRODUCTION OF ACCESS & SHORTCUT KEYS
- G-8 CONNECTING MENUS TO EVENT PROCEDURES

H. WORKING WITH GRAPHICS

- H-1 INTRODUCTION OF GRAPHICS
- H-2 TYPES OF GRAPHIC
- H-3 INTRODUCTION OF GRAPHIC CONTROLS
- H-4 INTRODUCTION OF LOOPING & SAVING IMAGES
- H-5 EXCHANGE IMAGE THROUGH CLIP BOARD
- H-6 INTRODUCTION OF CO-ORDINATE SYSTEM
- H-7 INTRODUCTION OF WIDTH & HEIGHT PROPERTY
- H-8 INTRODUCTION OF GRAPHICS METHODS
- H-9 INTRODUCTION OF ERROR HANDLING
- H-10 TYPES OF ERROR
- H-1 1 CREATION OF MDI FORMS
- H-12 INTRODUCTION OF ERROR HANDLER

I. DATABASE PROGRAMMING WITH VISUAL BASIC

- I-1 INTRODUCTION OF DATABASE PROGRAMMING
- I-2 DESIGNING A DATABASE
- Adv-3robjectives of parabase pesignter Teacher Training
 - I-4 ORGANISING THE DATA
 - I-5 INTRODUCTION OF TABLES, VISUAL DATA MANAGER & CREATING A DATABASE FILE
 - I-6 INTRODUCTION OF DATA CONTROL
 - I-7 ADDING DATA CONTROL TO THE FORM
 - I-8 SELECTING A DATABASE & RECORDSET
 - I-9 INTRODUCTION OF BOUND CONTROLS
 - I-10 ADDING BOUND CONTROLS TO A FORM
 - I-11 USING BOUND CONTROL TO DISPLAY DATA
 - I-12 INTRODUCTION OF DATA ACCESS OBJECT
 - I-13 ADDING DAD TO PROJECT
 - I-14 WORKING WITH ODBC
 - I-15 WORKING WITH ODBC DRIVERS, SETTING AN ODBC DATA SOURCE ACCESS ODBC DRIVERS
 - I-16 CREATING AN ODBC SOURCES
 - I-17 INTRODUCTION OF ACTIVE X OBJECTS
 - I-18 INTRODUCTION OF DATA CONNECTION METHODS
 - I-19 ADDING ADD WITH PROJECT
 - I-20 INTRODUCTION OF ADD DATA CONTROL

MODULE - 8

AVAL

A. FUNDAMENTAL OF OBJECT ORIENTED PROGRAMMING

- A-1 INTRODUCTION OF DOP'S & ITS PARADIGM
- A-2 INTRODUCTION OF BASIC CONCEPT OF OBJECTS & CLASSES, DATA ABSTRACTION & ENCAPSULATION ,INHERITANCE & POLYMORPHISM
- A-3 INTRODUCTION OF COMPILE N RUNTIME MECHANISMS
- A-4 INTRODUCTION OF MESSAGE COMMUNICATION
- A-5 BENEFITS OF OOP'S
- A-6 APPLICATION OF DOP'S

B. JAVA EVOLUTION

- B-1 JAVA HISTORY
- B-2 FEATURES OF JAVA
- B-3 DIFFERENCE BETWEEN C & C++ N JAVA & C
- B-4 INTRODUCTION OF JAVA, INTERNET, WWW
- B-5 INTRODUCTION OF WEB BROWSER, HOTJAVA, NETSCAPE NAVIGATOR
- B-6 INTRODUCTION OF JAVA ENVIRONMENT, JDK
- **B-7** INTRODUCTION OF APPLICATION PROGRAMMING INTERFACE

C. OVERVIEW OF JAVA LANGUAGE

- C-1 INTRODUCTION OF JAVA LANGUAGE
- C-2 INTRODUCTION OF SIMPLE JAVA PROGRAM
- C-3 INTRODUCTION OF JAVA STRUCTURE
- C-4 DEFINING OF JAVA PROGRAM STRUCTURE
- C-5 INTRODUCTION & DEFINING OF JAVA TOKENSCHER TRAINING
 - C-6 IMPLEMENTING A JAVA PROGRAM
 - C-7 CREATING THE PROGRAM
 - C-8 COMPILING & RUNNING THE PROGRAM
 - C-9 INTRODUCTION OF MACHINE NEUTRAL
 - C-10 INTRODUCTION OF JAVA VIRTUAL MACHINE (JVM)

D. CONSTANTS, VARIABLE AND DATA TYPES

- D-1 INTRODUCTION OF CONSTANTS
- D-2 TYPES OF CONSTANT
- D-3 INTRODUCTION OF VARIABLES
- D-4 INTRODUCTION OF DATA TYPES
- D-5 DECLARATION OF VARIABLES
- D-6 INTRODUCTION OF ASSIGNMENT & READ STATEMENT
- D-7 INTRODUCTION OF TYPE CASTING N AUTOMATIC CONVERSION
- D-8 INTRODUCTION OF GETTING VALUES OF VARIABLES

E. OPERATORS & EXPRESSION

- E-1 INTRODUCTION OF OPERATORS
- E-2 TYPES OF OPERATORS
- E-3 EXAMPLES OF OPERATORS
- E-4 INTRODUCTION OF FIELDS DECLARATION & METHOD DECLARATION

- E-5 INTRODUCTION OF DECISION MAKING WITH IF STATEMENTS
- E-6 TYPES OF IF STATEMENT & ITS PROGRAM
- E-7 INTRODUCTION OF SWITCH STATEMENT
- E-8 PROGRAM RELATED TO SWITCH STATEMENT

F. DECISION MAKING N LOOPING

- F-1 INTRODUCTION OF LOOPING
- F-2 TYPES OF LOOPING
- F-3 PROGRAM RELATED TO LOOP STATEMENT

G. CLASSES, OBJECT & METHODS

- G-1 INTRODUCTION OF CLASSES
- G-2 DEFINING A CLASSES
- G-3 FIELDS & METHOD DECLARATION
- G-4 CREATING OBJECTS
- G-5 ACCESSING CLASS MEMBERS
- G-6 PROGRAM RELATED CLASSES & OBJECTS
- G-7 INTRODUCTION OF CONSTRUCTORS AND ITS PROGRAM
- G-8 INTRODUCTION OF METHODS OVERLOADING
- G-9 INTRODUCTION OF STATIC MEMBERS
- G-10 INTRODUCTION OF NESTING METHODS
- G-1 1 INTRODUCTION OF INHERITANCE: EXTENDING A CLASS
- G-12 INTRODUCTION OF DEFINING A SUB CLASS, CONSTRUCTOR
- G-13 INTRODUCTION OF MULTILEVEL INHERITANCE, HIERARCHICAL
- G-14 INTRODUCTION OF OVERRIDING METHODS & PROGRAMS
- G-15 INTRODUCTION OF FINAL VARIABLE, METHODS & CLASSES
- G-16 INTRODUCTION OF VISIBILITY CONTROL

Advance Diploma in Computer Teacher Training H. ARRAYS, STRINGS & VECTORS

- H-1 INTRODUCTION OF ARRAY
- H-2 TYPES OF ARRAY
- H-3 CREATION N INITIALIZATION OF ARRAYS
- H-4 INTRODUCTION OF 2-D ARRAY
- H-5 INTRODUCTION OF STRINGS, STRING ARRAY & METHODS
- H-6 INTRODUCTION OF VECTORS
- H-7 INTRODUCTION OF ENUMERATED TYPES

I. INTERFACES MULTIPLE INHERITANCE

- I-1 INTRODUCTION OF INTERFACES
- I-2 DEFINING OF INTERFACES
- I-3 EXTENDING INTERFACES
- I-4 IMPLEMENTING INTERFACES
- I-5 ACCESSING INTERFACE VARIABLES
- I-6 PROGRAM RELATED TO INTERFACES

J. PACKAGES

- J-1 INTRODUCTION OF PACKAGES
- J-2 INTRODUCTION OF JAVA API PACKAGES
- J-3 INTRODUCTION OF NAMING CONVENTIONS
- J-4 CREATING PACKAGES

- J-5 ACCESSING A PACKAGES
- J-6 USING A PACKAGE
- J-7 ADDING A CLASS TO A PACKAGE
- J-8 PROGRAM RELATED TO PACKAGE

K. MANAGING ERRORS & EXCEPTION

- K-1 INTRODUCTION OF ERRORS
- K-2 TYPES OF ERROR
- K-3 COMPILE TIME ERROR
- K-4 RUN TIME ERROR
- K-5 EXCEPTIONS
- K-6 PROGRAM RELATED EXCEPTIONS
- K-7 MULTIPLE CATCH STATEMENTS
- K-8 THROWING OUR OWN EXCEPTIONS
- K-9 USING FINALLY STATEMENT
- K-10 USING EXCEPTIONS FOR DEBUGGING

L. BASIC I/O AND SERIALIZATION

- L-1 INTRODUCTION OF I/O STREAMS
- L-2 INTRODUCTION OF BYTE STREAMS
- L-3 INTRODUCTION & USING OF CHARACTER STREAMS
- L-4 INTRODUCTION OF LINE ORIENTED I/O
- L-5 INTRODUCTION OF BUFFERED STREAMS
- L-6 INTRODUCTION OF FLUSHING BUFFERED STREAMS
- L-7 INTRODUCTION OF STANDARD STREAMS
- L-8 INTRODUCTION OF DATA STREAMS
- L-9 INTRODUCTION OF OBJECT STREAMS
- L-10 INTRODUCTION OF FILE I/O, FILE OBJECT, MANIPULATING FILES
 - L-11 WORKING WITH DIRECTORIES
 - L-12 INTRODUCTION OF STATIC METHODS, RANDOM ACCESS FILES

M. APPLETS

M-1 INTRODUCTION OF APPLETS M-2 LIFECYCLE OF APPLETS M-3 LOADING APPLETS IN A WEB PAGE M-4 GETTING STARTED APPLETS M-5 APPLICATION AND APPLETS M-6 IMPORTING CLASS AND PACKAGES FOR APPLETS M-7 RELOADING THE APPLETS M-8 INTRODUCTION OF INT, START, STOP, DESTROY METHOD M-9 USING THE PAINT METHOD M-10 WORKING WITH GRAPHICS M-11 WORKING WITH DRAWING LINES M-12 WORKING WITH DRAWING RECTANGLES M-13 WORKING WITH CIRCLES AND ELLIPSES M-14 WORKING WITH DRAWING ARTS M-15 WORKING WITH POLYGONS M-16 WORKING WITH COOLERS M-17 WORKING WITH STATUS WINDOW M-18 WORKING WITH AUDIO CLIP INTERFACE