



**अखिल भारतीय सूचना प्रौद्योगिकी संगठन**  
**All India Information Technology Association**  
**New Delhi**

WORK RELATED TO MINISTRY OF INFORMATION TECHNOLOGY (GOVT. OF INDIA)

## DIPLOMA IN MULTIMEDIA

**Eligibility :** 10<sup>th</sup>

**Duration :** 1 Year

**Course Code :** DP-04

### Multimedia Essentials

Multimedia Needs and area of use, Development platform for multimedia

Test :- Concept of plain & formatted text , RTF & HTML text using common text preparation tools , conversion to and from of various text formats using standard software object linking embedded concept , Basic of font design overview of some fonts editing and designing tools , understanding & using various text effects

Introduction to Sounds and Animation and Video

Introduction to Multimedia Softwares

### Pagemaker , Corel Draw , Adobe Photoshop

#### Pagemaker

Adobe Pagemaker :-- Components of Pagemaker , ToolBox , Palettes , Working with text

Constructing a Publication :-- Creating a new Page , Save publication , Preferences

Edit Text :-- Edit Story , Master Pge , Measurement , Ruler & guideline , Pge numbers

Layout menu :-- Sorting page , Deleting Pge

Text formatting :-- Type Menu , Control Palette , Expert Tracking , Indents And Tab

Element Menu :-- Fill , Fill and Stroke , Create a Frame , Arrange , Wrap textGroup Object , Image

Control , Using PhotoShop Effect , Change the Shape Of Polygon/ Rectangle

Utilities Manu :-- Checking Spelling & Grammer , Change Case , Intex Entry

Coreldraw

Introduction to corel draw , Toolbars , Components of Corel draw

What is New in edit Menu :-- Introduction to corel draw , Duplicate , Clone

View menu :-- Full screen Preview , Grid and ruler setup

Layout Menu :-- Insert page , Delete page , Switching page Orientation , Page setup

Arrange menu :-- Introduction , Transformation , Order , Behind , Group , Shaping

Effects Menu :-- Adjust , Transform , Artistic Media , Contour , Extrude

Bitmap Menu :-- convert to bitmap , Mode , 3d Effect

Art Strokes :-- Charcol , Pastels , Pen & ink , Scrap oared , Sketchpad , Watercolor , Blur , Smooth , Color transform , Halftone

Art Stockes :-- Edge Detect , Find edge

Creative :-- Crafts , Glass black , Sample glass

Distort :-- Blocks , swirl

Noice :-- Add Noice

Text menu :-- Edit text , Fit text to path

Tools & windows



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## Photoshop

Introduction to Photoshop , About work area , Toolbox overview

File menu :-- What is new in file

Edit menu :-- What is s new in file , Transform & Patten

Image menu :-- Mode , Rotate image

Layer menu :-- New layer , Layer styles , New fill layer , Add layer mask

Select menu :-- Inverse , Feather , Modify , Grow

Filter menu :-- Extract , Artistic , Blur , Brush stroke , Distort , Pixel ate , Render , Sharpen , Sketch

## GIF Animator

**Introduction To GIF animator Softwares** :-- Falco GIF Animator Software , Easy GIF Animator Software , Coffee Cup GIF Animator

## Adobe Illustrator

Graphics Overview :-- Raster graphics , Vector graphics , Printing graphics

Creating new drawings & opening old ones

Page set up :-- Rulers, grids and guidelines , Smart Guides , Smart guide preferences , One last guide to set

Selecting an object

Templates

Viewing your work :-- Document info , Annotating an object

Illustrator's Design Tools :-- Grid , Artboard/Workspace

Bounding Box

Setting preferences/customizing :-- Keyboard Shortcuts

Saving your work

Exporting your work as a bitmap

Adobe Bridge

Special Focus Lecture :-- Navigation or "Where the heck did that drawing go?" , Offsetting an object

Tools

Toolbars :-- Default toolbar

Let's Play :-- Drawing, selecting/deselecting, moving objects & manipulating object center points , Shapes , Drawing lines, curves, arcs

Pen Tool Paths :-- Straight segments , Smooth points , Non-continuous curve

Working with Anchor Points :-- Adjusting as you draw

Setting Line Measurements & Validating for Errors :-- Setting line measurements , Attributes Palette

Manipulating lines - Direct Select Tool

Manipulating lines - Width Tool

Filling & outlining

The Pencil Tool Set :-- Pencil Tool , Smooth Tool , Erase Tool



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The Brush Tool :-- Brush options , Brush types - art, calligraphic, pattern, scatter, blob  
bristle Working with symbol libraries  
Undo the deed :-- Get me outta this!  
Special Focus Lectures :-- Pen Tool , Symbols

### Macromedia Flash

Introduction , logging onto server , basic Macintosh skills , Working in Flash , Drawing  
with Flash , Basic animation , Working in the timeline , Working with symbols Shape  
tween staggering animation effect , Animation Review  
Break apart and distribute Intro to Motion Guide , Motion Guide Paths , Mask layers ,  
Button Intro , Intro to scripting , Setting up your , project  
Publishing movies , Working with custom colors and gradients , Setting up scenes for  
first project , buttons and action scripting for project , Animated Buttons

### Dreamweaver , Fireworks

Internet Access and HTML , Internet Access and HTML , Planning Web Sites , The  
Dreamweaver Environment , Viewing and Managing HTML Code , Creating a Web Site ,  
Defining a Web Site , Creating a Basic Web Page and Page Properties , Building a Web  
Site , The Site Panel and Templates , Adding Content to Web Pages , List Formats and  
Graphic File Types , Inserting a Table and Adjusting Table Properties , Using Graphics in  
Table Cells and Nested Tables , Using Table Layout View , Creating and Using a  
Repeating Region Template , Working with Links , Creating Internal and External  
Hyperlinks , Creating an Image Map and Anchors , Enhancing Navigation in a Site ,  
Framesets , Reusable Navigation Bars , Managing and Uploading a Web Site , The Site  
Map

### Quark Express

INTRODUCTION :-- Introduction to students and teacher , fill out info card , getting on to  
the internet , welcome to the cyberclassroom , quarkxpress demonstration , buy (1) IBM  
ZIP disk , start clipping folder!

THE BASICS :-- Quark screen , the mouse , terms , menus , dialog boxes , tool palette ,  
measurements palette , shortcuts , balloon help , measurements systems , bring in  
favorite advertisements from magazine

CREATING A DOCUMENT :-- Launch application , new files , saving , reverting to saved ,  
duplicating a file , modifying page size , open , close and quitting documents

GETTING AROUND THE PAGE :-- Changing views , moving through a document , creating a  
text box , resizing boxes , deleting boxes , moving text boxes , input text , highlight text ,  
delete text , clipboard , frames , insets , rotation , wrapping text , modifying , saving text



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**FORMATTING TEXT** :- Page insertion , import text , insert pages , delete pages , rearrange pages , link and unlink text boxes , indents , leading , tracking , line breaks , paragraph rules , hyphenation , invisibles

**TYPOGRAPHY AND PICTURES** :- Resizing , fonts , horizontal and vertical alignment , scaling , baseline shift , special characters , creating a picture box , move a picture box , create a bleed , import and resize pictures , cropping , deleting , rotate , easter eggs , odd shape picture boxes , save page as eps

**FIRST IN-CLASS PROJECT** :- Create a two color mini poster using text and graphics , bring disk

**LINES AND STYLE SHEETS** :- Style sheets , edit a style , create align , edit a line , move a line , master pages , automatic page numbers , rename master page , apply master page , delete a master page , number sections , get diskette for project 2

**COLOR** :- Create a spot color , create a process color , edit a color , apply colors , create a blend

**LIBRARIES** :- Create a library , open a library , retrieve a library , label a library

**COLLECT AND PRINT** :- Group , modify , lock , duplicate , step and repeat , anchor a box , check spelling , find/change , font usage , suitcase II , bring another favorite design from magazine

**REVIEW** :- A review of Quark XPress and discussion about "real world" application , get diskette.

Bring in your favorite pocket folder.Option : Have your own resume typed.

**Introduction to SCALA** :- Scala Introduction , Scala Overview , Scala Classes , Scala Singleton + Companion Objects , Scala Applications , Scala Variables - var + val , Scala Data Types (Int, String etc.) , Scala Arrays , Scala if , Scala while , Scala for , Scala Exceptions + try catch finally , Scala Match , Compiling Scala with Ant

## Multimedia in Web Application

### Webpage Technologies

**Communication and network concepts** :- Evolution of Networking: ARPANET, Internet, Interspace , Different ways of sending data across the network with reference to switching techniques , Data Communication terminologies: Concept of Channel , Baud , Bandwidth (Hz , KHz , MHz)and Data transfer rate (bps , kbps , Mbps , Gbps , Tbps).

**Network devices** :- Modem , RJ45 connector , Ethernet Card , Hub , Switch , Gateway.

**Protocol** :- TCP/IP , File Transfer Protocol (FTP) , PPP , Level-Remote Login (Telnet) , Internet , Wireless/Mobile Communication , GSM , CDMA , WLL , 3G , SMS , MMS , Voice mail , Application

Electronic Mail , Chat , Video Conferencing.

**Softwares** :- Linux , Mozilla web browser , Apache server , My SQL , PHP

**Multimedia Application**:- Education ( use of CAI tool) , Entertainment , Edutainment , Virtual Reality , Digital Libraries , Information Kiosks , Video on Demand , Web Pages Video phone , Video conferencing and Health care.





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**Webpage Development :-** Review Of HTML/DHTML , VB Script

**Multimedia and Authoring Tools :-** Movie File Formats: AVI , MPEG , SWF , MOV,DAT.

Movie Frames: Concept of Frame , Frame Buffer , and Frame Rate.  
Authoring Tools , Making Animation , Embedding Audio/Video , and Embedding on the web page.

**Multimedia Authoring Using Macromedia Flash :-** Making of Simple Flash Movie , Setting Properties , Frame Rate , Dimensions , and Background Color.

Scene: Concept of Scene , Duplicate Scene , Add Scene , Delete Scene , and Navigating between Scenes.

**Layers:** Concept of Layer , Layer Properties , Layer Name , Show/Hide/Lock layers , Type of

Layer - Normal/Guide/Mask , Outline Color , Viewing Layer as outline , Layer Height , Adding/deleting a layer.

**Frame:** Concept of Frame , Creating a Key Frame , Inserting Text Into the Frame , Inserting Graphical Elements into the frame , Converting Text/Graphics to Symbol , Inserting Symbol into the Frame , Setting Symbol , Property (Graphics/Button/Movie) , Inserting Blank Frame , Inserting Blank Key Frame , Inserting Key Frame into the Blank frame , Selecting all/Specific frames of a Layer , Copying/Pasting selected Frames.

**Special Effects:** Motion Tweening , Shape Tweening , Color effect , Inserting Sound Layer , Testing a Scene and Movie , Import/Export (Movie/Sound and other multimedia objects)

**Publishing:** Publishing A Flash Movie , Changing publish Settings , Producing SWF(Flash Movie) , HTML page , GIF image , JPEG Image (.jpg) , PNG Image , Windows Projector (.exe) , Macintosh Projector (.hqx) , Quick Time (.mov) , Real Player (.smil) , Testing with Publish Preview

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