

SARDARPATEL UNIVERSITY

Programme: B.A.

Syllabus with effect from: June-2017

Choice Based Credits system

Second Year B.A.

Semester-III

Core Subject: Computer Application Paper – V

Paper Code: UA03CCAP07 (Theory 50% + Practical 50%)

Total Credit: 3

Title of Paper: Introduction to Cyber Security & Multimedia

Objectives :

- To enable students to understand the importance of Cyber Security and learn staying safe online.
- Explore the Photoshop interface and use several tools for images as well selecting parts of images.
- Students will learn to use layers, layer effects and filters to create special effects. Additionally, they will use painting tools and blending modes to create shading effects and finally to save images in print and web formats

Unit	Description in Detail	Weightage (%)
I	Introduction to Cyber Crimes: Introduction to Cyberspace, Definition of Netizen, Survey of Malware and its existence, Definition of Security hole, Security Patch, Viruses, Worms, Trojan Horses, Bot Networks, Social Engineering, Avoiding Malwares, Spyware, Adware, Keyboard Loggers, Rogue Software and Scareware, Ransomware, Black Hat Search Engine Optimization, Current and Fulltime Threats, Hackers, Hacker's tools, E-Mail and SPAM, Spoofing, Spammer's tools, SPIM	25%
II	Other Cyber Intrusions and Security: Cyberbullies, Online Reputation Attacks, Reputation Management, Protecting from Cyberbullies, Phishing, Recognizing Phishing trip, Protection from Phisher's hookup, Online Shopping Basics, Hijackers, Ensuring Safe Shopping, Security Tokens, Cookies, Making cookies work for you, tips for staying safe and social, Meeting People Online, Liars, Creeps, Cyberstalkers, Protecting yourself from creeps, Internet Monitoring	25%
III	Multimedia and its tool : Photoshop Definition, Uses of Multimedia, Software & Hardware Requirement for multimedia. Photoshop: Introduction and basic concepts of Photoshop, Interface (Application Bar, Option Bar, Document Window, Panels and Tools Panel), Screen Modes, Opening existing image also using Adobe Bridge, Selecting Workspace, Creating new Workspace, Deleting Workspace, Bitmap and Vector images, Image Resolution, Editing Image: Rotating, Straightening, Cropping, Adjusting Canvas, Duplicating an image, Selection Tools: Transforming, Drag and Drop, Painting Tool: Gradient Tool, Brush Tool: Creating custom brush tool, Setting brush options, Hardness, Spacing, Angle and Roundness, Retouching: Patch tool, Rubber Stamp, Dodge tool, Blur tool, Sharpen tool, Smudge tool, Burn tool, Layers: Editing layers, Opacity and Blend modes, Adjustment Layers, Inserting and editing image into layer. Reusing layers. Removing layers. Saving layer styles	25%

IV	<p>Extended Use of Photoshop: Using Channel and Mask : Using the Channels Palette, Select a channel, show/hidechannel, Alphachannels, UsingType:OutlineType, Bitmap Type, Creating Type, Entering Text, font family, type size, anti-aliasing, Using Filters :Edge effects, glass surface controls, Lighting Effects Filter/Type/Style., Eye Candy : For creating great effects, Color Modes : Color management system and color management module, Saving and Exporting:Tosaveafile,load,savingfileindifferentformat[like <i>JPEG,GIF,PDF,TIFF</i>], DelegationofOutputTargets,Understanding Half-toned Cell, Resolution Factor,Printing,deviceprofiles,workflow, etc., Introduction to work with Images for Web.</p>	25%
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Practical: Practical are in Computer Laboratory on MS Word (Theory 50% + Practical 50%)

Main Reference Book(s):

- (i) E-Book - Own Your Space, Linda McCarthy, Denise Weldon – Siviy, Page Press, Compliments of Microsoft
- (ii) Photoshop CS5 in Simple Steps by Kognet, Dreamtech Press
- (iii) Internet Technology and Web Design, ISRD Group, Tata McGraw Hill

SUGGESTED ADDITIONAL READING:

- (i) Cyber Security by Godbole, Wiley India
- (ii) Computer Security by Gollman Wiley India
- (iii) Web Designing and Computer Application – IV, Vimal Pandya, H. K. Arts College, Ahmedabad
- (iv) Flash web design - the art of motion graphics, BPB Publication
- (v) Web Designing, Computer Jagat Publications
- (vi) Multimedia, Computer Jagat Publications
- (vii) Adobe Photoshop CS5 Bible, Dayley Dayley, Wiley India
- (viii) Multimedia in Practice by Jeffcoate Wiley India

Software / Tool: Adobe Photoshop CS 8

Accomplishments of the student after completing the Course:

Student will get awareness about cyber security and would become smart online, understanding the importance of data privacy and protecting data. They would have explored the features of Multimedia software – Photoshop by creating Brochures, Information Bulletin, Advertisement, Pamphlets designed for the Web as well.



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Core Subject: Computer Application Paper – VI

Paper Code: UA03CCAP08 (Theory 50% + Practical 50%)

Total Credit: 3

Title of Paper: Open Source & Multimedia

Objectives :

- Student should be able to develop skill of computer operations using Fedora Linux Operating System and its application packages for Office Automation
- Explore multimedia Software Flash Package and its tool to design Brochure, Animated Document, Movie, Video clips etc. images in print and web formats

Unit	Description in Detail	Weightage (%)
I	OPEN SOURCE SOFTWARE: Introduction to Concept of Open Source, Introducing Linux, Exploring Features of Linux, Overview of Linux Distributions: Ubuntu, Debian, Gentoo, Knoppix, Suse And Opensuse, Yellow Dog Linux, Slackware, Mandrive, Freespire And Xandros, Fedora, Introducing The Fedora Desktop, K Desktop Environment, Gnome Desktop Environment, Working With Files And Directories: Introduction To Linux File And Directory Structure, Basic Linux Commands, Creating, Copying, Removing Files, Linux File Permission, Creating, Removing Directory, Applying Permission On Directories, Working With Storage Media, Working With Applications: Opening, Creating, Saving, Closing Document, Modifying An Existing Document, Add / Remove Software Application, Opening PDF file using Adobe Acrobat, Working with Music and Video, Creating, Selecting and Modifying Objects using Draw, Changing Outline and Fill properties of an Object, Modifying, Rotating and Aligning an Objects, Working with Slides: Inserting new Slides, Adding Text in a Slide, Changing the Text properties, Switching between Slides, Grouping Objects, Moving a Group, Merging and Combining Objects, Saving the Draw document	25%
II	OPEN OFFICE SUITE: Overview of Internet and Linux – based Mozilla Firefox, Features of Mozilla Firefox, Interface of Mozilla Firefox, Browsing the Internet with Mozilla Firefox, Setting Preferences in Mozilla Firefox, Viewing the History of visited Websites, use of Search Engine, Creating Blog, Introducing and working with E-Mail and Chat, Quitting Mozilla Firefox, Introduction to Open Office Suite, Exploring an Interface of OpenOffice.org Writer, Working with Document: Saving, Closing, Editing Documents in Writer: Find and replace feature, Auto Correct, Word Completion features, Spelling and Grammar Checker, Hyperlinks, Merging Documents, Saving Changes to a document, Formatting the Document: Page Margins, Header and Footers, Tables, Formatting Text in the Document, Working with Graphics, Templates, Printing the Document, Exploring an Interface of OpenOffice.org Impress, Inserting New Slides and text in Slide, Saving the presentation, Opening an existing presentation, Formatting Text, Text Effects, Inserting Objects in a Slide, Applying the Slide Animation Effect, Slide Transition Effect, Moving and Deleting Slides, Running a Slide Show, Printing the Presentation	25%

III	Multimedia and its tool : Photoshop Introduction to FLASH: Overview of FLASH, FLASH environment, Creating new FLASH document, User interface of FLASH, FLASH workspace, Menu bar, Timeline, Property Panel, Motion Editor Panel, Saving files: As uncompressed XML – based format, As Template, Drawing Modes in FLASH, Drawing tools: Stage and Pasteboard, Oval, Rectangle and Polystar, Line tool and its Properties, Pencil tool and its Properties, Pen Tool, Brush tool, Lock skill, Align tool, Eraser tool, Adding Color, Stroke, Fill, Bucket tool, Dropper tool, Gap Controls, Transform, Magnifier tool, Hand Tool, Zoom Control, Selection tools: Lasso tool, Magic wand, Arrow tool, Original Fill, Snap, Straighten, Rotate	25%
IV	Text, Gradients, Symbols, Animation, Tweening, Buttons : Text Tools : Expanding Textbox, Font, Font size, Font Color, Effect, Alignment, Paragraph, Text field, Modifying Text, Gradients: Custom, Linear, Radial, Creating a Static Symbol, Tint, Alpha, Brightness, Editing Symbols, Animation Techniques : Basics of Animation, Introduction to key Frames and Tweens, Types of Frames, Motion, Layer, Skinning, Controller, Shadow, Motion Tweening, Tween Scaling, Rotate, Easing, Creating Shape, Multiple Layers, Buttons : Button Timeline, Up State, Over State, Down State, Introduction to Movie Clip, Actions	25%

Practical: Practical are in Computer Laboratory on MS Word (Theory 50% + Practical 50%)

Main Reference Book(s):

- (i) Linux and OpenOffice Course Kit, Vikas Gupta, Dreamtech Press
- (ii) Flash – 3rd Edition, Michael Lennox, Techmedia
- (iii) FLASH CS5 in Simple Steps by Kognet, Dreamtech Press
- (iv) Computer Application – IV, Vimal Pandya, HK Arts College Publishers, Ahmedabad [Gujarati Book]

SUGGESTED ADDITIONAL READING:

- (i) Flash web design-the art of motion graphics, BPB Publication
- (ii) Web Designing, Computer Jagat Publications
- (iii) Multimedia, Computer Jagat Publications

Software / Tool: FEDORA LINUX, FLASH 8

Accomplishments of the student after completing the Course:

Students would be able to create an advertisement to promote the products online also get aware to create websites with animated graphics. Intensive interfaces.



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Core Subject: Computer Application Paper – VII:

Title of Paper: Internet Technology & Terminology, HTML

Paper Code: UA03CCAP09

Total Credit: 3

Objectives:

Student will

- Understand the basic concepts of Internet and elements of HTML
- Be able to create Web page and able to use Tables, Forms, Controls and Navigations with web pages

Unit	Description in Detail	Weightage (%)
I	Introduction to Internet: Introduction to Internet, History of Internet, Hardware and Software requirements for using Internet: Dial-up connection, Broadband connection, DSL, Internet Via Cable, Internet on portable devices through Wireless, LAN, Wireless Internet Access, Internet through Mobile Phone Network, Internet through Satellite, Using the Internet: WWW, E-mail, Applications of the Internet, Difference Between Internet and Intranet, Web Address (URL), Function of Internet Service Provider, Usages of internet/network	25%
II	Internet Tools and Multimedia: Browsing the Web: History, Internet Explorer, Mozilla Firefox, Google Chrome, Use of Browser, Exploring the Web, Quick Search, Search Engines, Homepage, Tabbed Browsing, Using bookmarks, Saving and Printing Information from a web page, Browsing History, Page Loading Issues, Blocking Pop-ups, Form on Web Page, Secure Web Pages, Cookies, Temporary Internet Files/Cache, Uploading Files, Audio/Video on the Web, Shopping on the Web, Internet Banking, Finding Maps and Directions on internet, Keeping your PC safe: Anti-Virus, Anti Spyware/	25%
III	Introduction and Basic Concepts of HTML: Introduction of Website, Web Pages, Web Browsers, Internet Service Providers and HTML Editor, Introduction of HTML, Basic HTML Page Structure: types of Tags, Attributes, Requires Tags, Doctype, Capitalization, Quotations, Nesting, Spacing and Breaks, Display of special Characters, Color, Working with Text, Links, Images, Creating Lists, Using Tables	25%
IV	HTML – Forms and Frames: Developing Frames: Basic Frameset and formatting with all attributes, Developing simple Forms, Working with embedded multimedia: Sound & Video (Music & Movie)	25%

Practical: Windows and Presentation package (Theory 50% + Practical 50%)

Reference Books

- Computer Course Windows 7 and Office 2010; Ravi Kant Taxali; McGraw Hill Education
- Introduction to Internet and HTML Scripting; Bhaumik Shroff, Books India Publications
- HTML: A Beginner's Guide; Wendy Willard; McGraw Hill

Suggested Additional Reading Book(s):

- (i) Head first HTML with CSS and XHTML; Elisabeth Freeman, Eric Freeman; O'Reilly
- (ii) Building Your Own Website The Right Way using HTML & CSS; Ian Lloyd; Sitepoint
- (iii) Web page design in 7 days; Siamak Sarmady; Learnem Group
(<http://www.learnem.com>)
- (iv) CCC-BAOU and CCC+ Course; Dr. Hiren Joshi, Dr. Himanshu Patel, Prof. Rohit Doshi, Prof. Hardik Joshi, Dr. Vimal Pandya, Prof. Jaimini Kulkarni, Saket Dave, Dr. Shyam Tanna, Prof. Parvez Faruki
- (v) Multimedia and Computer Application – III; Dr. Vimal Pandya; Department of Computer; H.K. Arts College
- (vi) Internet & HTML; F.Y.B.A. Subject Elective (SE-2); Dr. G.N. Jani, Dr. Vimal Pandya; Akshar Publication
- (vii) Basic Book-copa – Computer Operator and Programming Assistant; Dr. G.N. Jani, Indra J. Shah; Akshar Publication
 - (viii) Introduction to Fundamentals of Computer; Dr. G.N. Jani, Prof. Faruk U. Vora, Dr. U. H. Vyas, Dr. V. N. Pandya, Prof. S. M. Solanki

Accomplishments of the student after completing the Course:

After completion of this course Student would be able to

- Design and develop Web pages using HTML tags
- Enhance the Web Page effectively using Tables, Links, Forms and Frametags.

