B. A – III

Course Code: SE (I) 204

Course Name: Introduction to Cyber Security and 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

Contents:

Unit – 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, Ransomeware, Black Hat Search Engine Optimization, Current and Fulltime Threats, Hackers, Hacker's tools, E-Mail and SPAM, Spoofing, Spammer's tools, SPIM

Unit –II   **Other Cyber Intrusions and Security:**
Cyberbullies, Online Reputation Attacks, Reputation Management, Protecting from Cyberbullies, Phishing, Recognizing Phishing trip, Protection from Phisher's hook up, 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

Unit – 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

Unit – IV   Extended Use of Photoshop:
Using Channel and Mask : Using the Channels Palette, Select a channel, show/hide channel, Alpha channels, Using Type : Outline Type, 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 : To save a file, load, saving file in different format *[like JPEG, GIF, PDF, TIFF],* Delegation of Output Targets, Understanding Half-toned Cell,   Resolution Factor, Printing, device profiles, workflow, etc., Introduction to work with Images for Web.

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
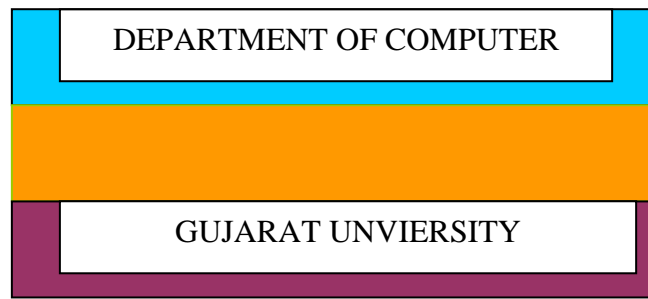
Software / Tool: Adobe Photoshop CS 8

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 Bulleting, Advertisement, Pamphlets designed for the Web as well.

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Photoshop
Practical Exercise

Ex.1 Create two different blur and artistic effect on one object with the help of filter menu.

Ex.2 Create two different brush and distort effect on one object (specially selected area only) with the help of filter menu.

Ex.3 Create two different render and sharpen effect on one object with the help of filter menu.

Ex.4 Create two different sketch and stylish effect on one object with the help of filter menu.

Ex.5 Create a banner of [6' x 4'] with 3 different colors, put one logo and write Department of Computer Centre, Gujarat University.

DEPARTMENT OF COMPUTER

GUJARAT UNVIERSITY

Ex.6 Create one FEEDBACK form and put all details which are mentioned below in letter size.

Feedback Form

Your Information

Name
Designation
Contact
E-Mail

Rating scale for performance

1	Extremely poor	6	Satisfactory
2	Very poor	7	Good
3	Poor	8	Very good
4	Below average	9	Great
5	Average	10	Excellent

Overall									

1 General impression about the Host Institute

1	2	3	4	5	6	7	8	9	10

2 How well did the administrative staff?

1	2	3	4	5	6	7	8	9	10

3 How satisfied are you with the Time-Management?

1	2	3	4	5	6	7	8	9	10

4 Was the Institute managing to communicate its need clearly and timely?

1	2	3	4	5	6	7	8	9	10

5 How you rate the competency of staff members?

1	2	3	4	5	6	7	8	9	10

Ex.7 Create one Information booklet (Brochures) of quarter size.

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