

**Shree Manibhai Virani and Smt. Navalben Virani Science College, Rajkot
(Autonomous)
Affiliated to Saurashtra University, Rajkot**

Syllabi for Part-III courses

Offering Department : Department of Computer Science & Information Technology

**SEC – III Value Added Courses
ANY SEMESTER BETWEEN II TO V**

16UCSVA01	E-learning tools	40 hrs	1 Credit
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Objectives:

To enable the students to

1. Understand the concept of internet
2. Understand the use of Google tools & Technology
3. Create a document , presentation with formatting by using online tools
4. Understand the working of internet ,DNS
5. Create an effective presentation and diagram using online and offline tools
6. Create Simple website

Unit -1 Introduction of Internet (08 hrs)

- Introduction of Network
 - Computer Networks & Type of Computer Network
 - Remote Desktop Login
 - What is Internet? & Use of Internet?
- Applications of Internet
 - World wide web(web page, web site, web client, URL web server)
 - DNS and Web Hosting
 - Email and how email transfer works, Social media and E-commerce
 - Data transfer over Internet
- How to stay safe on internet?
- How to download and upload?
- IP addressing

Unit -2 Google Tools & Technology (08 hrs)

- Internet search and Content
 - Google Trends
 - Google alerts(news and search e-mail alerts)
 - Google Earth (3-D satellite Imagery),
 - Google Image Search
 - Google Labs (online services research and development)

- Google Local, Google Play Store (Marketplace for digital content)
- Google (Google gravity , Google Water , Google Sphere etc...)
- Tools and application
 - Google sites (To create your personal Homepage) , Google profile
 - Blogger
 - Gmail, Google Drive (Docs , Forms etc), Google Chrome(web browser)
 - Google Language tools
 - Google Code
 - Google Calendar , Google Reader , Google Voice
 - Google Checkout (Google wallet)
 - Google Class room

Unit – 3 Office Made Easy and Other Utility tools & technique (08 hrs)

- Word processing tool in detail
- Spreadsheet
- Presentation tool
 - Online/Offline presentation tool to make effective presentation(powtoon etc)
 - Diagrammatic Tools (Online and offline)
- Different File Conversion Tools

Unit – 4 Learning Management System Tools (08 hrs)

- Moodle
- Coursera, edx, Udemy, Lynda, Udacity, Codeschool, Microsoft Virtual Academy etc
- Overview of Freelancing (Fiverr etc)

Unit – 5 Other E-Learning Resources and Tools (08 hrs)

- Online Certification sites
- Online tools
 - CourseLab
 - exelearning.org , lamsfoundation.org
 - NPTEL
 - MIT Open Course Ware
 - Learners TV

Reference Books

1. *R.K. Taxali , Pc Software For Windows Made Simple*, McGRAW HILL

Web References

1. <http://www.google.com>
2. www.courselab.com
3. nptel.ac.in
4. <https://ocw.mit.edu>, <https://www.edx.org>
5. <https://www.coursera.org>, <https://www.udemy.com>, <https://www.lynda.com/>
6. www.learnerstv.com

16UCSVA02	Desktop Data Publishing	40 hrs	1 Credit
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Objectives:

To enable the students to

1. Create composite images that demonstrate advanced selection and layering techniques
2. Use basic selection tools and edge refinement to isolate and edit parts of an image
3. Manipulate layers through ordering, positioning, scaling, rotation, and adjustments
4. Prepare images for Web and print output with appropriate sizing and resolution
5. Apply painted masks, selection-based masks, gradient masks, and blend modes to create sophisticated image effects
6. Set and modify typography using the full range of type tools, the Character panel, and the Paragraph panel.
7. Apply special effects to typography using masks, paths, and layer styles.

Unit -1 Introduction to Photoshop (08 hrs)

- About Adobe Photoshop
- Graphics Basics
- Exploring Menus & Panels
- Customizing Workspaces
- Different file formats
- Work area Using Rulers and Guides
- Introduction to Colour
- Image Manipulation & Painting tools

Unit -2 Working with Layers, Image Post Production (Image Processing) (08 hrs)

- **Working with Layers**
 - Color Management, Levels & Curves, Using Retouching tools, Spot Healing Brush, Clone Stamp, Pattern Stamp, Red Eye, Eraser, Blur, Sharpen, Smudge, Dodge, Burn, Sponge Blurring and Sharpening Images, Color Replacement Tool, The Free Transform command
- **Image Post Production (Image Processing)**
 - Getting started with Photoshop Filters
 - Liquify Command
 - Exploring filters
 - Blur, Distort, Noise, Pixelate
 - Render, Sharpen, Stylize, Smart Filters, Lens Correction

Unit – 3 Scripting (08 hrs)

- Action
 - Using the Action palette, Droplet
 - Recording, Playing, Editing Action

- Adobe ImageReady
 - The Image Ready Interface
 - Image Maps
 - Image Slicing

Unit – 4 CorelDraw Basics and Interface (08 hrs)

- Exploring the CorelDraw Screen
- File Management
- Moving Around and Viewing Drawings
- Customizing Options
- Setting File Backups
- Objects- Creation and Manipulation, Drawing and Shaping Objects

Unit – 5 Working With Special Effects (08 hrs)

- Drawing with the Artistic Media Tool
- Shaping an Object with an Envelope
- Working with Text
- Working with Paragraph
- Special Text Effects
- Using Symbols and Clipart
- Working with Bitmaps
- Advanced Features
- Special Page Layouts

Reference Books

1. *Andrew Faulkner, Conrad Chavez, Adobe Photoshop Classroom in a Book*, Adobe
2. *M.C. Sharma, Corel Draw: Graphics Suite*, BPB Publication