Semester I

106: Tools and Techniques in Geoinformatics

1.1 Working with Windows Desktop and utilities a) Notepad b) Wordpad c) Paint d) Taskbar display resolution f) Using the browsers projector 1.3 Linux commands: Working with Directories: a) pwd, cd, absolute and relative paths, ls, mkdir, rmdir b) file, touch, rm, cp. Mv, rename, head, tail, cat, tac, more, less, strings, chmod 1. 4 Linux commands: Working with files: a) ps, top, kill, pkill, bg, fg b) grep, locate, find, locate c) date, cal, uptime, w, whoami, finger, uname, man, df, du, free, whereis, which d) Compression: tar, gzip **Unit 2: Internet and Web Designing and office Tools: 20 Lectures** 2.1 Use of Indian Geo-portals: Bhuvan, Mosdaik, Vedas 2.2 (a) Use of Basic HTML Tags (b) Design a webpage using different text formatting tags. 2.3 (a) Design a webpage with links to different pages and allow navigation between webpages.

(b)Design a webpage demonstrating all Style sheet type

- 2.4 (a) Create a word document such as resume, a research paper using a word processor.
 - (b) Working with spreadsheets, applying formulae
 - (c) Working with Presentation tools

Unit 3: Introduction to Programming:

- 3.1 Basic Python programs
- 3.2 Use of control statements
- 3.3 Implementing sequences
- 3.4 Working with sequences
- **References:**
- 1. HTML5 Black Book: Covers CSS3, JAVASCRIPT, XML, XHTML, AJAX, PHP and JQUERY DreamTech Press.
- 2. Paul Gries, Jennifer Campbell, Jason Montojo, Practical Programming: An Introduction to Computer Science Using Python 3, Pragmatic Bookshelf, 2/E 2014
- Michael Dawson, Python Programming for the Absolute Beginner, Paperback, Second Edition, Published 3. November 8th, 2005 by Course Technology PTR
- Randy, Microsoft Office 2016: In Practice 1st Edition, Nordell professor of Business Technology. 4.

Unit 1: Operating Systems

- e) adjusting
- 1.2 Installing and connecting various Devices- Printers, scanners, Ethernet, Blue tooth, wireless, mobile, modem,

20 Lectures

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