

LIS - 402. INFORMATION TECHNOLOGY APPLICATION
(PRACTICE) (4 Credits)

Objective:

To create, manage, and access e-content useful for knowledge and development by developing interfaces, sensitizing in Web designing, familiarizing searching techniques and emerging web services besides facilitating print and web resource management .

Method of instruction: Computer demonstration and exercises in the laboratory will form the method of instruction. The course will follow practical examination carrying 80 marks, consisting 4 problems of 15 marks each to be solved in 2 1/2 hrs followed by a viva of 20 marks(1/2 hrs). The internal assessment of 20 marks will be based on attendance and practical performance in internal assessment test.

UNIT I. Visual Basic (latest available)

Practical 1.1: Creating New Projects using Standard EXE.

Practical 1.2: Working with VB Components like Labels, Frames.

Practical 1.3: Radio Buttons, Scrolls, and List Boxes etc.

Practical 1.4: Database connectivity Using ADODB Control.

Practical 1.5: Data Insertion /Retrieval/Updation. (Project)

UNIT II. Software Packages

Practical 2.1: SOUL and/or Librarian: Acquisition Module, Catalogue Module.

Practical 2.2: SOUL and/or Librarian: Circulation Module, OPAC Module and Serial Control Module.

Practical 2.3: Greenstone: Installation and Customization.

Practical 2.4: Greenstone: Collection Building, Metadata induction (project)

Practical 2.5: Greenstone: Plugins, Searching-Indexes, Browsing- classifiers and working with ISIS files.

UNIT III. Web Designing

Practical 3.1: Syntax of HTML Document. Create a new HTML document.

Practical 3.2: Formatting of HTML Document. Format text (font size, color, etc.) in

HTML presentation. Creating internal and external links.

Practical 3.3: Creating lists using bullets or numbers.

Practical 3.4: Creating Tables and organizing information.

Practical 3.5: Background color and images.

Practical 3.6: Introduction of FrontPage and publisher for web publishing

Practical 3.7: Creation of a website and publishing on free web services (project)

UNIT IV. Web searching and emerging web tool

Practical 4.1 Web Searching: Simple and Advanced using various search techniques.

Practical 4.2: Searching tools and their usage: Search Engines, Meta Search Engines, Subject Gateways; etc.

Practical 4.3: Searching Web Resources using Digital Libraries, E-repositories and E-Archives.

Practical 4.4: Introduction to various emerging web services. (Like Blogs, RSS feed, U tube, wikis etc)

Practical 4.5: Creation of Blog and /or Wiki (Project)

Suggested Readings

Bradley, Phil. (2007). *How to use web 2.0 in your Library*. London: Facet Pub.

Cooke, A. (1999). *A guide to finding quality information on the internet: Selection and evaluation strategies*. London: LA.

Glossbrener, Alferd., & Glossbrener, Emily. (1998). *Search Engines for World Wide Web*. Peach Pit.

Halvorson, Micheal. (2003) *Microsoft Visual Basic 6.0 Professional step by step (2nd ed)*. Redmond, Wash: Microsoft.

Hartman, Karen., & Ackermann, Ernest C. (2005). *Searching & researching on the internet & the world wide web*. Wilsonville: Franklin Beedle.

Holzner, Steven. (2000). *HTML black book*. Scottsdale, AZ: Coriolis.

Holzner, Steven. (2006). *New Visual Basic 2005 black book*. Scottsdale, Ariz: Paraglyph.

- Holzner Steven. (2003). *Visual Basic 6 Programming*. New Delhi: Dreamtech .
- Jamsa, Kris.A. (2002). *HTML and web design: tips and techniques*. New York:Mc Graw Hill.
- Kerman, Mitchell C., &Brown Ronald L.(2000).*Computer programming fundamentals with applications in Visual Basic 6.0*.Reading Mass: Addison-Wesley.
- McCormick, John A.(1990).*A guide of optical storage technology: using CD-ROM, WORM, erasable, digital paper, and other high density opto-magnetic storage devices*. Homewood, III: Dow Jones-Irwin Professional
- McCormick, John A.(1994).*The new optical technology: including multimedia, CD-ROM and optical drives*. Burr Ridge, III: Irwin Professional
- Pence, James.H. (2001). *How to do everything with HTML*. New York: McGraw Hill.
- Poulter.A, Tseng .G.,& Sargent.G.(1997).The library and information professionals guide to the www.London.LA.
- Sauers, Micheal P., &Adkins, Denice.(2001).*Using the internet as a tool: a how to do it manual for librarians*. New York: Neal-Schuman Pub.
- Vats, Lokesh. (2001).*Web designing with HTML, Java Script an introduction*. Delhi: CyberTech Pub.
- Zak, Diane.(2007).*Microsoft Visual Basic 2005: reloaded (2nd ed)* US: Thomson Course Technology.
- Zak, Diane.(2001).*Programming with Microsoft Visual Basic 6.0*.Cambridge, Mass: Course Technology.
- Li, Ze-Nian., & Drew, Marc S.(2004). *Fundamentals of Multimedia*.NJ: Prentice Hall Pub.
- Zee, Natalie. (2003). *HTML & Web artistry 2: More than code (2nd ed.)*. IndianoPolis, IN: New Riders Pub.

Websites (Illustrative):

University of Waikato. (2007). About Greenstone. Available at:
<http://www.greenstone.org/>

University of Waikato. (2007). GreenstoneWiki. Available at:

<http://www.greenstone.org/wiki/index.php/GreenstoneWiki/>