

Subject Code: 1ET4040406	Subject Title: Web Development Tools
Pre-Requisite	-

RATIONALE:

The Internet has grown from the simple desire to a phenomenon which is leaving hardly any aspects of our daily lives untouched. For facilitating users, web sites carry many types of features. Today developing professional web sites includes a gamut of many kinds of technologies and tools involving GUI, animations, Content management, database, blogs etc. For designing and publishing web documents creating user interfaces, animation and informative reports are basic requirement of the software industry today. After completion of this course the student will be able to utilize these technologies and tools to create a professional website using scripting, blogging tool and a content-management system, database, animation tools.

COURSE OBJECTIVE:

Following are the objectives of this course:

- Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
- Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice.
- Develop skills in analyzing the usability of a web site.
- Understand how to plan and conduct user research related to web usability.
- Create interactive website using various tools(e.g. WordPress)

TEACHING AND EVALUATION SCHEME:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)			
Lecture	Tutorial	Practical	Credit	Theory		Practical	
				University Assessment	Continuous Assessment	University Assessment	Continuous assessment
-	-	4	4	-	-	40	60

DETAILS OF COURSE CONTENTS:

Sr. NO.	TOPIC	Total Hrs.
1	Web Terminologies 1.1 Web Terminologies : web, web page, http, domain name, register and host a domain name, ISP 1.2 XML Technology : XML TREE, XML DTD 1.3 Installing and Setting Up WAMP/XAMPP Server on Computer 1.4 IIS Configuration 1.5 Web services : definition, importance, examples	10
2	Introduction to Google apps	14

	2.1 Creating mail account 2.2 Gmail compose and reply : streamlined compose pane, check your mail while typing, formatting options appear only when you need them, new keyboard shortcuts, drag and drop addresses, drag and drop files, compose two messages at once, draft, create signatures, labels, filters, contacts (create groups and mailing lists, import contacts, contacts picker 2.3 Chat 2.4 Calendar (scheduling and other calendar basics, set up reminders, sharing and more), 2.5 Working with Documents: Word, Excel, creating form 2.6 Drive (Set up Google drive, (Organize, find, share files), open and preview files) 2.7 Working with Groups	
3	Working with Wordpress 3.1 Introduction to wordpress : make a website or a blog using a wordpress, Downloading and Installing wordpress on XAMPP SERVER 3.2 All menus on the Administration Screen 3.3 Dashboard: website management functions of WordPress 3.4 Themes: Installing and handling themes, Editing the appearance of themes, theme configurations, adjusting different elements of installed themes like slideshow, post, pages 3.5 Posts: Adding new post, Modifying existing posts, placing images, videos to the posts, adding categories to publishing the posts on the websites 3.6 Pages: Adding New webpages , Modifying pages, Editing pages, Placing images ,videos,mp3 to the pages, publishing the pages on the websites, creating static home pages. 3.7 Menus: Creating Custom Menus, modifying themes default menu.	16
4	Working with Wordpress 4.1 Media: Uploading pictures, videos, editing images, publishing them on the websites, embedding videos from YouTube to your website. 4.2 Links : Adding New links , Editing the links, Adding categories to the links, Managing Categories 4.3 Widgets: Adding, Editing widgets to the theme. 4.4 Plugins : Introduction to plugins , Installing plugins, Editing plugins. 4.5 Social Media Plugins: Floating social networking, social media widget, social media tabs, social media mashup, social networking icons 4.6 Users: Managing the accessibility to the website/blog. 4.7 Slider: Adding Custom Slider to the themes.	16

COURSE OUTCOME:

The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning outcomes in cognitive, psychomotor and affective domain to demonstrate following course outcomes.

- i. Illustrate the basics of WWW (World Wide Web) and different Web Browsers.
- ii. Use Gmail account and Google Apps
- iii. Create wordpress based user interface and website
- iv. Create small scale animations

LIST OF PRACTICAL:

SR. No.	Experiment
1	Write various web terminologies.
2	Create one sample XML document using different XML technologies.
3	Create Gmail Account and contacts. Test various mail utilities such as write mail, send mail, forward mail, reply mail, attach a file, creating signature, draft etc.
4	Test advanced feature of gmail and Test calendar functionality.
5	Test Google docs. Test Google drives.
6	Create group, sharing information, sending messages to a group etc.
7	Download and install wordpress on Xampp server.
8	Work with administration menu and Dashboard: Logging in and looking around
9	Understand the different features themes and what a theme is. Installing themes. Pick a theme that works for what you want to create. Switch your theme, if you change your mind. Make your theme beautiful on computers, phones, and tablets.
10	Add personal touches to your blog, like as a custom header or background. Access more options to personalize your blog, such as unique fonts and colors.
11	Add and configure widgets (and what widgets are).
12	Create a post or a page. Publish a post with text and images. Use different post formats depending on what you want to publish. Publish a page with text and images.
13	Create a menu to help visitors navigate your pages and posts.
14	Install plugins and edit plugins.
15	Manage users to access your website Add custom slider.

LIST OF REFERENCES:

Sr.no.	Title	Author
1	Learning to Program with Alice, 3rd Edition	Dann, Cooper and Pausch (Pearson Education)
2	Sams Teach Yourself WordPress 3 in 10 Minutes	Chuck Tomasi, Kreg Steppe (SAMS)
3	Web Technologies	Uttam Kumar Roy, Debarshi Kumar Sanyal (Oxford University Press)