Kathmandu University School of Management
Bachelor of Business Administration
Course Syllabus

Course Title	WEB TECHNOLOGY
Course Code Number	COM 340
Credit Hours	3
Course Objective	
Main Objective	**General Objective** The main objective of this course is to understand the Web techniques and implement web-based technology to build web-based application. This course enables students to choose best technologies for solving web client/server problems and create conforming and adaptive web pages using different programming methodologies and techniques. **Enabling Objectives** After the completion of this course, the students should be able to: - understanding the theories and concepts underlying in web development - create a web page using HTML codes and CSS. - develop the web based application with client-side scripting - understand server-side scripting technology including PHP scripting language and the database connectivity. - develop the web applications with server site scripting language also configure the web server properties and values. - understand the importance of developing a mobile web site and building mobile applications.
Learning Unit	
Learning Unit One Net Contact Hours - 3 Hrs	1. **Introduction** Basics of Internet; Concept of Client and server; web browser and web server (IIS, PWS, and Apache).
Learning Unit Two Net Contact Hours - 10.5 Hrs	2. **Introduction to HTML** HTML: Introduction, Structure of HTML document, XHTML; FORMS, Forms Objects, Meta tags, Links, Tables, Graphics (Display); Formatting: Alignment; Introduction to CSS; Types of CSS with examples; Implementation of CSS in : background, border, text, font, link, images, tables, list, and align. Practical session using web developing tools such as front page, dream waver or any other.
Learning Unit Three Net Contact Hours - 12 Hrs	3. **Client-Side Scripting** Introduction to scripting languages: Introduction of Scripting Language, (JavaScript, VB Script, AJAX), General Syntactic structures (Data types. Literal Constants, Operators and Expression, Control Structure), Built-in Functions, User-defined functions and Basic Scoping rules; Advanced Structure in Java Script: Arrays, Java Script Objects (Math, String, Date and Time) DOM Scripting: Hierarchy of Objects and their Methods, Event Handling, cookies, creating and deleting cookies. Practical session using web developing tools such as front page, dream waver or any other.

Learning Unit Four Net Contact Hours - 4.5 Hrs	**4. Server-Side Technology** Basic concept in web server, Introduction to web server-side scripting, Difference between client-side scripting and server-side scripting, Introduction to server side scripting technologies (Active server pages, CGI, Servlet, PHP, Database)
Learning Unit Five Net Contact Hours - 13.5 Hrs	**5. Server Side Scripting** Introduction, Basic Syntax, Data Types, Variables, Constants, Operators, Arrays, Control Structures, Functions, Error Handling, HTTP Authentication, Cookies, Session, String, Date and Time Functions, HTTP Functions, Database functions. Practical session using web developing tools such as front page, dream waver or any other.
Learning Unit Six Net Contact Hours - 4.5 Hrs	**6. Mobile Computing** Introduction to wireless Programming, Influence of wireless technology in Web based System, Mobile Application with examples (Developing mobile web site and mobile apps, Planning and Building a Mobile Web Presence, Mobile Web Presence: Design Considerations, Mobile Web Presence: Performance and Cost Considerations, Understand the important considerations involved in developing a mobile Web site and building mobile applications.
Total Contact Hours	48 hrs (excluding assessment, lab hours and final examination)
Basic Text	Bayross, I. (2014). *Web Enabled Commercial Application Development using HTML, DHTML, JavaScript, PHP.* Delhi: BPB Pulication latest edition
Reference Text	1. Deitel, Deitel and Nieto, *Internet and World Wide Web, How to Program,* AWL Second edition 2. Felke-Morris, T. (2013). *Web development and design foundations with HTML5* (6th ed). New Delhi: Pearson. 3. Lemay, L. (2016). *Sams teach yourself HTML, CSS & Javascript web publishing in one hour a day* (Seventh edition). Sams India. 4. MacCaw, A. (2011). *Java Script web applications:* Alex MacCaw. O'Reilly. 5. Meloni Julie C(2010)., *Teach Yourself PHP, MySQL and Apache,* New Delhi, Pearson Education Pvt. Ltd. Delhi
Evaluation Scheme	In - Semester evaluation 50% End - Semester evaluation 50% Total 100%

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