UNIVERSITY OF SARGODHA

DEPARTMENT OF CS& IT

COURSE OUTLINE SPRING 2018

Course Tittle: **WEB SYSTEMS AND TECHNOLOGIES**

Course Code: IT-3548

Credit Hours: *3*

Instructor: ***SAMREEN RAZZAQ***

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DESCRIPTION & OBJECTIVES

This provides the principles and skills of web application Development. It arms students with current web programming technology and the skills for developing web oriented applications. Topics covered are web development, from a web page to a web site, types of servers and architectures for web.

READINGS

**Textbook(s):**

Learning PHP, MySQL, JavaScript, and CSS, A Step-by-Step Guide to Creating Dynamic Websites By Robin Nixon, O'Reilly Media; Second Edition edition (September 3, 2012). ISBN-10: 1449319262

**Reference Material:**

Web Technologies: A Computer Science Perspective by Jeffrey C. Jackson, Prentice Hall; 1st Edition (August 27, 2006). ISBN-10: 0131856030 • Web Technologies by Uttam Kumar Roy, Oxford University Press, USA (June 13, 2011). ISBN-10: 0198066228

Web Application Architecture: Principles, protocols and practices by Leon Shklar and Richard Rosen, Wiley; 2nd Edition (May 5, 2009). ISBN-10: 047051860X

CONTENTS

Overview of WWW, Web Pages, Web Sites, Web Applications, TCP/IP, TCP/IP Application,

Services, Web Servers, WAMP Configuration. Introduction to HTTP, HTML & HTML5 Tags,

and Dynamic Web Content.CSS and CSS3. Client Side Programming: JavaScript: Basics,

Expressions and Control Flow, Functions, Objects, and Arrays, Accessing CSS from

JavaScript. Form Handling. Server Side Programing: Programing in PHP.Introduction

MySQL, MySQL Functions, Accessing MySQL via phpMyAdmin. Cookies, Sessions, and

Authentication.Introduction to XML, Ajax, JQuery, Browsers and the DOM. Designing a

Social Networking Site.

COURSE SCHEDULE

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| Week | Topics and Readings | Dates |
| 1. | Introduction to Course, Objectives, Overview of WWW, Web Pages, Web Sites, Web Applications |  |
| 2. | TCP/IP, TCP/IP Application, Services, Web Servers, WAMP Configuration |  |
| 3. | Introduction to HTTP, HTML |  |
| 4. | HTML5 Tags, and Dynamic Web Content |  |
| 5. | CSS and CSS5 |  |
| 6. | Client Side Programming: Programing in JavaScript: Basics, Expressions and Control Flow, Functions, Objects, and Arrays, Accessing CSS from JavaScrip |  |
| 7. | Form Handling |  |
| 8. | Server Side Programing: Programing in PHP |  |
| 9. | Server Side Programing: Programing in PHP |  |
| 10. | Server Side Programing: Programing in PHP |  |
| 11. | Introduction MySQL, MySQL Functions, Accessing MySQL via phpMyAdmin |  |
| 12. | Cookies, Sessions, and Authentication |  |
| 13. | Introduction to Ajax, JQuery,Browsers and the DOM |  |
| 14. | Designing a Social Networking Site |  |
| 15. | Project Evaluation and Presentation |  |
| 16. | Project Evaluation and Presentation |  |

RESEARCH PROJECT

Review of one Research paper on emerging technologies.

ASSESSMENT CRITERIA

Sessional: 20

Project: 10

Mid Term: 30

Final exam: 40

RULES AND REGULATIONS

* 75% attendance mandatory
* Development Project is necessary for every student