Course Specifications

General Information

Course name	Web Applications Development
Course number	ITSE3302
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Introduce student to various World Wide Web standards

2 - Familiarize student with dynamic web programming languages

3 - Enable student to acquire knowledge with web services paradigm

4 - Enable student to develop a complete functional web site

Intended Learning Outcomes

Knowledge and Understanding	* Understanding the role, benefit and technical details of various WWW standards
	* Acquire knowledge and understanding of the reference architecture of a dynamic web page
	* Understand the main security issues associated with web sites
	* Gaining knowledge in the benefit and main concepts of the web services programming paradgim
Professional Skills	* Gaining practical experience in using various web programming languages
	* Acquiring practical experience in designing and building web-based systems

Course Contents

1 - The Hypertext Transfer Protocol
2 - The Domain Name Service DNS
3 - The HyperText Markup Language HTML
4 - Session Tracking Mechanisms
5 - Application Server Technologies: PHP
6 - Application Server Technologies: ASP
7 - Application Server Technologies: Java Servlets
8 - Application Server Technologies: JSP
9 - Security Issues in Web development and administration
10 - Introduction to XML and its related technologies
11 - Web Services Development
12 - Javascript, CSS, AJAX

Teaching and Learning Methods

1 - Lectures
2 - Laboratory Work - Practical Projects

Students Assessment

Assessment Method	TIME	MARKS
Mid Term Exam 1	Week 6	15%
Mid Term Exam 2	Week 12	15%
Practical Project 1	Week3	10%
Practical Project 2	Week 10	15%
Final Exam	Week 16	50%

Books and References

Essential books	Sebesta, Programming the World Wide Web (6th Edition), Pearson 2010
Other References (Periodical, web sites, ... etc.)	http://www.w3schools.com/