

## Sixth Level

Course Code	Course Title	Credit Hours	Lecture Hours	Labs Hours	Prerequisite
IS242	Web Application Development 1	4	3	2	IS251

### Course Description

This course provides students with an insight and the basics of web application development and programming. It focuses on the main web technologies on HTML5 and the related technologies in its ecosystem, diving into the exciting new features of HTML5, CSS3 style sheets, JavaScript, XML, web servers, database and PHP/ASP programming.

### Course Objectives

After completing this course the student will be able to:

1. Scrutinize the internet technologies involved in web application development
2. Introduce the basics of Client-side and server-side technologies
3. Apply the fundamentals of HTML5, CSS3, XML, and JavaScript
4. Examine the basics of web servers and websites
5. Introduce the basics of server-side scripting language PHP and ASP.Net

### Course Outline

1. Introduction to computers and Internet Technologies
2. HTML5
3. CSS3
4. JavaScript
5. XML
6. Web servers
7. Database: SQL/MySQL
8. PHP

### Lab Activity

The focus of the Lab work is on practice examples mainly on HTML5 as well as CSS3, XML, and JavaScript, in order to develop Web Applications, and how to gain a good knowledge on web server setup and configuration.

### Textbooks

Deitel & Deitel (2011): *Internet and World Wide Web How to Program*, 5th Edition, Harvey & Paul Deitel & Associates.

Randy Connolly (2007), *Core Internet Application Development with ASP.NET 2.0*, Prentice Hall.