Course Title: Introduction to Web Programming
Course code: 731270
Course Level: 2
Credit hours: 3

Course module description:
This module aims to give students an introduction and general concepts of the Internet and Intranet technology, the World Wide Web, TCP/IP and Web design languages (HTML, CSS, JavaScript, and ASP). It also involves the necessary background that student needs to develop different tasks of programming aspects concerning the foregoing objectives. Sufficient study levels are supposed to be studied and learned by the students within the course for the sake of applying the different fields of education, learning, economical, E-Business and other approaches.

Course module objectives:
Building efficient web sites using different techniques and languages represents one of the main goal of this module. Understanding the main concepts of the internet and the web represent a key issue in building the web sites. This module aims
1. To learn main concepts and fundamentals of Internet and Web..
2. To learn the different languages HTML, JavaScript and others.
3. Building efficient and interactive web sites
4. Using different tools and software to deal with web development and design
5. To gain experience writing programs HTML and JavaScript
Course/ module components
• Books (title, author(s), publisher, year of publication)
  Text Book(s)

1. Title: Internet & World Wide Web How to Program
   Author(s)/Editor(s): Deitel & Deitel
   Publisher: Prentice Hall, 3rd Edition, 2004

2. Title: HTML: A Beginner's Guide
   Author: Wendy Willard

Teaching methods:
  Duration: 16 weeks in first semester, 48 hours in total
  Lectures: 35 hours, 3 per week
  Optional Tutorials/Lectures: 13 hours, (average 1 per week)
  Laboratories: 24 hours in total

Learning outcomes:
A student completing this module should be able to:
1. Understand the Internet and Intranet technology, the Web concepts
   (TCP/IP: Architecture & Protocols, Web Servers, Web Sites, DNS, and
   IP Addresses).
2. Design Web pages using HTML XHTML and CSS.
3. Develop Web Sites using JavaScript language and the most structures
   fitting the problem under design.
4. Build Web Servers using ASP...

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<tr>
<th>Allocation of Marks</th>
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<tr>
<td>Assessment Instruments</td>
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<tr>
<td>First examination</td>
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<tr>
<td>Second examination</td>
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<td>Final examination: 50 marks</td>
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<td>Lab works</td>
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<td>Total</td>
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Documentation and academic honesty
• Documentation style (with illustrative examples)
• Protection by copyright (N/A)
• Avoiding plagiarism. (According to the university rules and regulations)
### Course/module academic calendar

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapters</th>
<th>Basic and support material to be covered</th>
<th>Assignments, Tutorials, …</th>
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</table>
| (1)  | 1, 2 Text Book 1 | Introduction to the Internet Technology  
- Definitions  
- Internet  
- Intranet | |
| (2)  | 1.2,3 Text Book 1 | TCP/IP: Architecture & Protocols (Client/Server) | |
| (3)  | 1,2,3 Text Book 1 | TCP/IP: Architecture & Protocols (Client/Server) DNS, ISP | |
| (4)  | 2, 3 Text Book 1 | Internet Services:  
- Email  
- WWW  
- Usenet News  
- Telnet.  
- Web Servers  
- Search Engines | Tutorial 1 |
| (5)  | 1,2,3,4 Text Book 2 | Introduction to Hyper Text Markup Languages HTML  
- Editing HTML  
- HTML Tags  
- Headers | Assignment 1 |
| (6)  | 5, 6, 7 Text Book 2 | HTML Tags  
- Text Styling & Formatting  
- Links  
- Multimedia  
- Images and Image Map | Tutorial 2 |
| (7)  | 8, 9, 10, 11 Text Book 2 | HTML  
- Lists  
- Tables  
- Frames | Assignment 2 |
| (8)  | 12, 13, 14, 15, 16 Text Book 2 | Advanced HTML Concepts  
- HTML Applications | Assignment 3 |
| (9)  | 4 Text Book 1 | HTML and XHTML | Tutorial 3 |
| (10) | 5 Text Book 1 | Cascading Style Sheets (CSS) | Course Project |
| (11) | 6 Text Book 1 | Introduction to JavaScript | |
| (12) | 7, 8, 9 Text Book 1 | JavaScript:  
- Control Statements  
- Loops  
- Functions | Tutorial 4 |
| (13) | 10, 11, 13 Text Book 1 | JavaScript:  
- Arrays  
- Objects  
- Events | Tutorial 5 |
| (14) | 16, 25 Text Book 1 | Rich Internet Applications  
- Client/Server Technologies  
- Adobe Flash  
- ASP.NET (introduction) | Course Project Submission Due Date |
| (15) | 25 Text Book 1 | ASP.NET Applications | |
| (16) | | Final exam  
Review and discussion | |
Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references

Books


Journals

Websites

www.w3schools.com

www.webteacher.org

www.microsoft.com

www.whatis.com

www.idocs.org

www.w3.org

www.webdeveloper.com

www.javascriptmall.com

www.javascripts.com/toc.cfm