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Course Profile - Department of Information Technologies

Course Number : **IT 213**	Course Title : Internet and Web Programming
Required / Elective : Required	Pre / Co-requisites : -
Catalog Description: Introduction to HTML, intermediate HTML 4, Javascript control structures, functions, arrays, objects, dynamic HTML - CSS, object model and collections, event model, filters and transitions.	Textbook / Required Material : Internet & World Wide Web How to Program Deitel, Deitel, 4th Intl.Ed.
Course Structure / Schedule : **(2+0+2) 3 / 5 ECTS**	

Extended Description :
The course aims to provide basic client side programming, which is the foundation for developing client side Web applications. To this end, the course covers conceptual as well as practical skills, including:

- Terminology and fundamentals of Internet and WWW
- Fundamentals of XHTML mark up language
- Fundamentals of CSS
- Principles of server side scriptig languages and most frequently used libraries
- Fundamentals of JavaScript
- Design, develop and maintain client side Web pages having dynamic content

Design content : Students are expected to design an XHTML complient Web site with JavaScript dynamic content.	Computer usage: Extensive

Course Outcomes: [relevant program outcomes in brackets]:

By the end of this course, students will be able to:

- recognize and articulate basic terms and concepts related to Internet and WWW; [1]
- distinguish between a programming language and a mark up language; [1]
- distinguish between a programming language and a script language; [1]
- prepare a static client side Web page using XHTML and CSS; [1]
- prepare a dynamic client side Web page using XHTML and JavaScript; [1]
- analyze the requirements of a client side Web site; [3,4,7]
- design usable and standards complient client side Web pages; [3,5]
- combine XHTML, CSS, JavaScript technologies effectively; [3,8]
- assess the usability of a client side Web applicaton; [8]

Program Outcomes for Management Information Systems Program:

1. A foundation in mathematics and basic sciences and ability to apply acquired knowledge as they relate to the study and practice of information systems management.
2. An ability to align information technology, organizational and strategic matters.
3. An ability to propose, analyze, design, develop, test and maintain an information technology system including software solutions, security model, computer and network infrastructure, etc. to solve information systems problems.
4. An ability to analyze local and global impact of computing on individuals, organizations and society; and the ability to apply information systems techniques, skills, and tools for regular computing practices as well as to improve effectiveness of current methodologies.
5. An ability to effectively communicate in oral and written media with all kinds of related audiences; and prepare documentation for this purpose as required.
6. An understanding of professional, ethical, legal, and social issues and responsibilities of information systems management profession.
7. A taste and breadth of knowledge across several social topics outside the immediate requirements of the information systems management profession, and the ability to work within heterogeneous teams to accomplish a common goal including people from the information systems area as well as other disciplines.
8. An ability to engage in life-long learning and professional development for personal improvement to follow contemporary information systems issues.

Teaching methods

Lectures and laboratory sessions

Assessment methods

Projects:	12%
Laboratory reports:	20%
Midterm exams:	28%
Lab final exam:	10%
Final exam:	30%.

N.B.: To emphasize the practical emphasis of the course, students who miss more than three lab sessions fail the course, regardless of other grades they receive.

Student workload:

Project	22 hrs
Reading	50 hrs
Lectures	28 hrs
Laboratories	20 hrs
Examinations	5 hrs
TOTAL ……	**125 hrs**

Prepared by : N.Z.P.	Revision Date : 8.2.2010