Arab Academy for Science and Technology and Maritime Transport
Computer Science Curriculum
Course Syllabus

Course Code: CS333	Course Title: Web Programming	Classification:	Coordinator's Name: Dr. Mohamed Mostafa **Lecturer Name:**	Credit Hours: 3
Pre-requisites: IS273 (Database Systems)	**Co-requisites:** None	**Schedule:** Lecture: Tutorial-Lab:	2 hours 2 hours	

Office Hours: (Room 405)
Sunday 12:30 p.m. - 2:30 p.m.

Course Description:
This course is a comprehensive introduction of common, primarily open-source, technologies used to develop and maintain web sites on the Web. A variety of client-side and server-side technologies are covered. Students will download and install the Apache Web Server, PHP, and MySQL database. The course will cover programming concepts, client server architecture, database access, HTML, Cascading style sheets, and Javascript. Students will write a full-scale web application as their final project.

Textbook:
Randy Connoly Ricardo Hoar, Fundamentals of Web Development, Second Edition, PEARSON

References:
- Harvey M. Deitel, Paul J. Deitel, Tem Nieto, Harvey Deitel, Paul Deitel, *The Complete Internet and World Wide Web Programming Training Course*, Prentice Hall PTR.
- Luke Welling, Laura Thomson, *PHP and MySQL Web Development*.

Course Objective: Upon completion of this course, students should be able to demonstrate Knowledge of:	Contribution to Program Student Outcomes:
1. Write HTML files without using web generation tools. 2. Specify the difference between client-side and server-side web programming. 3. Master the basic syntax of JavaScript as a client-side scripting language. 4. Understand the principles of cascading style sheets to control the styling and layout of a webpage 5. Describe how server-side scripts work. 6. Use PHP to develop data-driven web sites. 7. Use AJAX and JQuery to build internet applications.	SO2 - Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of program's discipline. SO6 - Apply computer science theory and software development fundamentals to produce computing-based solutions.
Course Outline: 1. Introduction to web programming 2. Introduction to HTML 3. HTML5 Tags 4. CSS 5. CSS: properties and selectors 6. Basic of Java Script 7. 7th Week Exam 8. Java Script Objects	9. Understand DOM and DHTML 10. Event-driven programming 11. Basics of PHP 12. 12th Week Exam 13. Form handling and DB access in PHP 14. Introduction to Ajax 15. Revision 16. Final Exam

Grade Distribution:

7th Week Assessment (30%):
Exam (20%) + Programming Assignments 10%

12th Week Assessment (20%):
Exam (15%) + Programming Assignments 5%

Year Work (10%):
Project (10%)

Final Exam (40%)

Policies:

Attendance:
AASTMT Education and Study Regulations (available at aast.edu)

Academic Honesty:
AASTMT Education and Study Regulations (available at aast.edu)

Late Submission:
Late submissions are graded out of 75% (1 week late), 50% (2 weeks late), 25% (3 weeks late), 0% (more than 3 weeks late)