

CO 363 WEB Engineering Course Plan

1. Web Engineering Introduction

- 1.1. Web Technology Vs Web Engineering
- 1.2. Planning for web engineering

2. Web Engineering

- 2.1. Requirements Engineering for Web Applications
- 2.2. Modelling Web Applications
- 2.3. Web Application Architectures
- 2.4. Technology-aware Web Application Design
- 2.5. Technologies for Web Development / Design
- 2.6. Security in the context of Web Engg
- 2.7. Testing Web applications

3. Trends related to Web Engineering

- 3.1. Web Services and cloud computing
- 3.2. Semantic Web (engineering)
- 3.3. Social Web (applications)
- 3.4. Web of Things
- 3.5. Big Data, IoT and Web engineering

Reference Books:

1. Roger Pressman, Web Engineering: A Practitioner's Approach, McGraw-Hill Higher Education, 2008.
2. Kappel, B. Pröll, S. Reich, and W. Retschitzegger (eds), Web Engineering - The Discipline of Systematic Development of Web Applications, John Wiley & Sons, 2006.

Web Links for similar courses:

1. <https://tuftsdev.github.io/WebEngineering/> == interaction in class
2. http://www.philadelphia.edu.jo/academics/shanna/uploads/WE_Syllabus_14_2.html == contents may be useful
3. <http://ironbark.xtelco.com.au/subjects/WE/>

Evaluation procedure:

Individual students: (a) Mid-sem exam 25%; (b) End-sem exam 45% , and (c) two research papers presentation cum discussion: in_class work - one in March and another one in April 10%

Group of Two students: (a) Mini Project work / take home assignment 20%