Web Engineering

188.951 2VU SS15

M0: Preliminary discussion

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Outline: Lectures

M1:   Introduction to Web Engineering (WE)

M2:   XHTML, HTML5, CSS, CSS3, JavaScript

M3:   WAI, Responsive Design

M4:   Servlets, Java Server Pages (JSP)

M5:   Design Patterns in WE

M6:   Java Persistence API (JPA), Play Framework

M7:   Web Services

M8:   Social Software & Advanced WE topics

M9:   Linked Open Data

M10:   Web Science

Materials and Literature

- Slides, articles and references
  - see TUWEL course

- Literature (textbook collection)
  - *Web Engineering -
    Systematische Entwicklung von Web-Anwendungen*
    Gerti Kappel, Birgit Pröll, Sigi Reich,
    Werner Retschitzegger (Hrsg.), dpunkt.verlag,
    2004 (http://www.web-engineering.at)

  - *Head First HTML with CSS & XHTML*
    Elisabeth Freeman, Eric Freeman, O'Reilly, 2005

  - *Web Services:Principles and Technology*
    Michael Papazoglou, Addison-Wesley, 2007

  - *Engineering Web Applications*.
    Sven Casteleyn, Florian Daniel, Peter Dolog, Maristella
    Matera. Springer, 2009

Lectures: Monday, 08:00 – 10:00, HS 17

M0	09.03.2014	Preliminary discussion
M1+M2	09.03.2014	Introduction, HTML, CSS, JavaScript
M3	16.03.2014	WAI, Responsive Design
M4	23.03.2014	Servlets, Java Server Pages (JSP)
M5	13.04.2014	Design Patterns
T1	20.04.2014	Test 1
M6	27.04.2014	JPA, Play Framework
M7	04.05.2014	Web Services
M8	11.05.2014	Linked Open Data
M9	18.05.2014	Social Software, Advanced Web Engineering
M10	01.06.2014	Web Science
T2	15.06.2014	Test 2
AE	29.06.2014	Alternative Test 1 XOR Test 2

Practical assignments

- 4 assignments (200 Points)
    - **Groups of 3 students (planned)**
    - About two weeks per assignment, Deadline always on a Sunday
    - UE1: *HTML5, CSS3, WAI, JavaScript (Deadline: 05.04.)*
    - UE2: *Servlets/JSP (Deadline: 26.04.)*
    - UE3: *JPA, Play Framework (Deadline: 10.05.)*
    - UE4: *Web Services, Social Software (Deadline 31.05.)*

- Assignment Reviews always on a **Wednesday (Favoritenstraße 9-11)**
    - UE1 + UE2: 29.04.
    - UE3 + UE4: 03.06.
    - ~30 minutes per group

- Organizational information, grouping, assignment specification, dates → in **TUWEL course**

eLearning

TUWEL course: https://tuwel.tuwien.ac.at/course/view.php?idnumber=188951-2015S

a. General information

b. Slides of the lectures

c. Assignment specifications and dates/deadlines

d. Registration to the assignment reviews

e. Upload of your assignment

f. News and student forum

  ▪ Organizational and technical questions!

To get access to the online resources, subscribe to the course in TISS.

Grading

1. Theoretical part
    a. Two written tests
        I. Test 1: M1 – M5
        II. Test 2: M6 – M10
        III. Alternative Test, **where you can retry either Test 1 or Test 2 (XOR)**
    b. At least 51 % per test
    c. No documents and materials are allowed

2. Practical part
    a. At least 51 % overall (51 points of 100)
    b. At least 30 % of each assignment

3. Theoretical part and practical part affect the grade at a ratio of 1:1
    a. Practical part max 100 points
    b. Theoretical part max 100 points

Start up the course!

- Sign up in TISS
  - Deadline: 10.03.2014 23:55

- Access TUWEL

- Find a group
  - Find two colleagues
  - Deadline: 15.03.2014 23:55

Questions and problems…

- **Step 1**
  - Check information in TUWEL
  - There will be information on dates and times, organizational hints

- **Step 2**
  - Use the student forum in TUWEL
  - Ask your colleagues

- **Step 3**
  - Send an email to we@big.tuwien.ac.at or
  - visit us in our office hour, Wednesday 10am-11am