COE 485 Senior Design Project

Computer Engineering Department

KFUPM, Saudi Arabia

Fall 2010 (Term 101)

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This Course

- This course is to give students the experience of tackling a realistic engineering problem.
- **Develop a complete product** starting from a **description**:
  - Analysis (scope, requirements, survey)
  - Design (modules, UI, logic, database)
  - Implementation (language, libraries)
  - Documentation (report, website)
Projects

- **Theme**: Computer and Network Security
- **Teams**: 3 or 4 Students
- **Deliverables**:
  - Software (Application, Tool, ... etc)
  - Complete Report
    - Survey/Analysis, Design, Implementation
  - Website
    - User guide, Screenshots, video, ... etc.
Required Skills

- Programming (Java, PHP, HTML, ...)
- Basic knowledge in computer security
- Basic Knowledge in Operating Systems
- Written and oral communication
- Teamwork
- Time and Project management
Roadmap

iterative development approach

ITERATION # 1
- Complete Proposal
- Partial Design
- Initial UI/website

ITERATION # 2
- Revised Proposal
- Complete Design
- Revised UI/website
- Partial logic

ITERATION # 3
- Complete Product
- Complete Document
- Complete website
<table>
<thead>
<tr>
<th>Activity</th>
<th>Grade</th>
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| **Iteration#1**  
Document1: proposal (survey, tasks), partial design  
Demo1: Initial UI, website | 20% (Oct 18, W4) |
| **Iteration#2**  
Document2: revised proposal, complete design  
Demo2: complete UI, website, partial logic | 20% (Nov 29, W9) |
| **Iteration#3**  
Document3: Final report (survey, design, implementation), website  
Demo3: complete product | 40% (Jan 10, W15) |
| Progress presentations | 5% (W12) |
| Peer evaluation | 10% |
| Attendance/Discussion | 5% |
Policies

- **F**
  - No proof of work.
  - Cheating.

- **D D+**
  - Most parts not working.
  - Poor Document.

- **C C+**
  - Major Parts completed.
  - Minor features missing.

- **B B+**
  - Project and documents completed.

- **A A+**
  - Exceeds requirements.
  - New features.
  - Creativity.

- No Incomplete Grade (IC)
- All deadlines are hard.
  - Late submission = 25% penalty every 12 hours.
- Attendance is required
  - 3 absences = DN grade