King Fahd University of Petroleum and Minerals
College of Computer Sciences and Engineering
Department of Computer Engineering

COE 485 **Senior Design Project**

Instructor:	Dr. Basem Almadani
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Term:	072 (2nd term 2007–2008)
Prequisite:	Senior standing plus whatever prerequisites stated by the faculty members in their project proposals.
Textbook:	Robert Angus and Norman Gundersen, ``Planning, Performing, and Controlling Projects: Principles and Applications'', Prentice-Hall, First Edition, 1997. Also MS Project has a very useful help and tutorials in Project Management.
Class time:	M/T: 1720
Office Hours:	M&T: 1000-1200
Catalog Description:	This course is designed to give students the experience of tackling a realistic engineering problem. The intent is to show how to put theoretical knowledge gained into practical use by starting from a word description of a problem and proceeding through various design phases to end up with a practical engineering solution. Various projects are offered by COE faculty in their respective specialization areas. The project advisor guides the student in conducting feasibility study, preparation of specifications, and the methodology for the design. Detailed design and implementation of the project are carried out followed by testing, debugging, and documentation. An oral presentation and a final report are given at the end of the semester.

Tentative Grading Policy:

• Project Plan (2nd week)	**8%** (Stating the working steps, responsible person and time frame)
• Progress report 1 (week 5)	**10%** (Project status, difficulties, target modifications, …etc)
• Presentation 1 (week 5)	**5%** (Accomplished task, learned issues, experiences)
• Progress report 2 (10week)	**12%** (Project status, technologies used,)
• Presentation 2 (week 10)	**5%** (Project defense)
• Final Report (from week 10)	**30%** (Detailed project activities)
• Presentation and Demo (TBA)	**30%** (Achievements presentation and show)

IMPORTANT NOTES:

- All KFUPM regulations and standards will be enforced. Attendance will be checked each class. The KFUPM rule pertaining to a DN grade will be strictly enforced (i.e. **> 2 absences** will result in a DN grade). *Check your university e-mail, both KFUPM and CCSE, regularly for warnings regarding your absences.*
- If you are late to the class for <u>more than 5 minutes</u>, you will **NOT be allowed to enter** the classroom and you will be considered absent for that class.
- Only university approved/certified excuses will be accepted, and should be presented **no later than 1 week** after absence.
- Use of cell phones and PDAs during class period and during exams is absolutely **prohibited**.
- Students with more than one term projects (as indicated in proposal) will receive an IC grade only if they show proof of 50% project completion. Other wise they will receive an F grade. Students with one-term projects can receive an IC grade only if they show proof of 70% completion of the project. Students who do not submit a final report or an IC request (with appropriate justification and supervisor approval) shall receive an F grade.
- Students who obtain an IC grade in the current term will be required to submit their final report at least two weeks before the end of the next term or they will receive an F grade. Also, these students should be ready to deliver a presentation on their senior project one week before the end of next term.
- General guidelines for grades:

Range	≥ 90 and ≤ 100	≥ 80 and < 90	≥ 70 and < 80	≥ 60 and < 70	< 60
Minimum Grade	**A**	**B**	**C**	**D**	**F**

ABET 2000 COE Program Learning Outcomes

(a) an ability to apply knowledge of mathematics, science, and engineering

(b) an ability to design and conduct experiments, as well as to analyze and interpret data

(c) an ability to design a system, component, or process to meet desired needs

(d) an ability to function as an effective team member

(e) an ability to identify, formulate, and solve engineering problems

(f) an understanding of professional and ethical responsibility

(g) an ability to communicate effectively

(h) the broad education necessary to understand the impact of engineering solutions in a global and societal context

(i) a recognition of the need for, and an ability to engage in life-long learning

(j) knowledge of contemporary issues

(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

(l) Knowledge of Probability and Statistics and their applications in Computer Engineering

(m) Knowledge of Discrete Mathematics

(n) The ability to design a system that involves the integration of hardware and software components