

## Team Project 2: Free Choice

**Date for presentation is April 30, 2019 from 9:20 – 10:50 a.m. SHARP**

This second project is a free choice within the constraints delineated below. The key aspect of this project is that the case study **must** concern itself with **decision making under uncertainty**. Each group picks a case study of its choice from some source – a book, an existing case study, or a paper – or makes up its own case study to prepare and to present to the class.

Please **make sure** that the meeting of your group with me will take place before April 18.

The following are the **constraints/requirements** imposed in this project:

- Each team must, on its own, decide to pick a project from a source other than the Clemen book used as the second text for ECE 307 or make one up. The source may be another book, a paper, a case study in the Business Library or some real-life story. Any problem selected must have some element of **decision making under uncertainty** and so it is acceptable to pick a case study with deterministic decision making and introduce uncertainty in order to turn it into a case study of decision making under uncertainty.
- Each team's project is **unique** and so there are no duplicate topics.
- **The preparation of the case study formulation** is an additional aspect of the work on this project above those included in the first project.
- The treatment of **sensitivity** – *what if* – cases continues to be an important part of the project
- **All the other ground rules from Project 1** continue to hold.

### Instructions

I acknowledge the fine job each of you did in the Project 1 presentations and I thank each of you for your individual efforts. One aspect I wish to stress in this second project is to make the project far more of a collaborative assignment as opposed to simply a collection of each team member's assignment. I aim to work again with each team to discuss the selected topic and to improve the level of collaboration within each team. It seemed that the tasks were apportioned among the groups but there was very limited attention paid to linkages/bridges among the various parts. My aim is to improve this situation so as the total effect of the team presentation is visibly greater than the sum of the parts. Such a goal is achieved with enhanced collaboration among the team members. As such, I am requesting that all the teams do stress the collaborative nature of the assignment.

1. **Change** in the team composition is not permitted.
2. Each group has the charge to **pick** a team leader or may keep the Project 1 team leader.

3. **Work** together in a strong collaborative environment to pick a case study for preparation for the project.
4. **Formulate** carefully the assumptions to be used in the analysis. For each assumption that is introduced, please **provide** a rationale for its reasonableness and its necessity.
5. **Plan** and **prepare** an effective oral presentation of your group's analysis and the set of your recommended actions. Please pay attention to the "robustness" of the recommendations and address the need for sensitivity analysis.
6. Each group will be given up to 30 minutes for presentation and up to 7 minutes for discussion, including Q and A. I encourage each of you to ask questions.
7. **Document** your work and **prepare** a summary report. Report serves as a comprehensive statement of the problem in the case study, the adopted solution methodology and the proposed recommendations.
8. Please pay attention to sensitivity information and **prepare** results to respond to various, possible *what if* questions.
9. I request each group to hold a brief meeting with me to discuss the scope and nature of the project. The meeting can take place at the earliest convenience of the group.
10. All teams must participate in the presentations and all team members must be present. The entire class must be at all the presentations.
11. This project, together with Project 1, makes up *at least* **10 % of the class grade**.
12. Each of you is expected to be on time for the presentation and can leave after all presentations are completed.