TECH 646 Homework Assignment 3

Assigned date: Sept. 12, 2011
Due date: Monday, September 19, 2011, before 5 PM, as an email attachment

Turn-in requirements:
All teams must and submit answer Part I-A, and B; plus extra PPT slide to lead class discussion as assigned.

- Part I-A-Text Book 1: (Team Assignment)
  - Vicky & Dorian answer all – and lead class discussion (Q1, Q2, Q3)
  - Other Teams (answer only Q 1 and Q2)
- Part I-B-Text Book 1 (Team Assignment)
  - David & Kevin – answer Part I-B Q5 & Q8
  - Bon, Peter, and Samson – answer Part I-B Q5 & Q8
  - Vicky & Dorian can chose either Q5 or Q8

Each student should submit
- Part I-C-Text Book 2 (Individual Assignment)
- Part II: Reading Assignment Book 1: Ch 4; and Book 2: Chapters 2 & 3 and prepare for class discussion (no turn-in required)

References:
Text Book Discussion Questions and Exercise Problems

The teams (similar to the hw2’s team formations) are formed to work on the assigned questions.

- The team should study the question thoroughly, use proper references/guidelines to prepare answers for the questions.
- A PowerPoint slide would be needed to lead the class for the Q/A discussions on Sept. 12 – Team (Vicky and Dorian – lead class discussion)

Question 1. What tracking theory do you favor?
Question 2: What are the most important variables you would consider in justifying your decision?

Question 3: Another formal evaluation method will be considered. We will borrow the evaluation method from the book: System Engineering Management, 4th Ed, by Benjamin S. Blanchard, published by Wiley, pages 468-470, which can be found on another link (Alternative Technology Evaluation Method). Modify the table for Question 3. We will continue to work on the same table for the next couple weeks.

PART I-B: Discussion Questions 5 and 8 (Team assignment)
An automobile manufacturer observes ...
A PowerPoint slide would be needed to lead the class for the Q/A discussions on Sept. 12 – Team (David & Kevin – Lead class discussion)
PART I-C: Text Book 2 (for All, individual assignment)
- Exercises for Section 2-1 (page 28-30)
  - 2-1, 2-14, 2-19, 2-22, 2-24, 2-41

PART II- Reading Assignment
- Read Chapter 4. The Research Process: An Overview, of Boo1 - Business Research Method
- Read Chapters 2 & 3 Book 3 – Applied Statistics and Probability for Engineers