

Summary Course Description: Formal root cause analysis of decision-making errors made by technology managers.

Section 1

Type of Course: Case Study (3 credit, elective)
Learning Challenge: Comprehension, information processing, analysis
Learning Aid: Structured problem-solving using A4 analysis method
Mode of Delivery: Face-to-face (for weekly group discussion)
Pedagogy: Individual assignments and group discussion
Number of Students: 15 max

Section 2

Learning Objectives:

1. Comprehend and process large volumes of information.
2. Learn types of errors made by technology managers.
3. Expand critical thinking skills using formal root cause analysis.
4. Identify common themes and similarities across failures.

Section 3

Theory-Practice Balance: 0% Theory, 100% Practice
Justification: Practitioner-oriented M.S. degree program

Section 4

Homework Assignment Frequency: One per week
Total Homework Assignments: 13 (10 A4s and 3 other)
Time to Complete Homework: 3-4 hrs (weeks 1-10); 1 hr weeks 11-13
Evaluation Schedule: Weekly
Evaluation Method: Individual and group feedback
In-Class Evaluations: None
Mid-Term / Final Examination: None

Section 5

Primary Qualified Teacher: Prof. Emiliani
Secondary Qualified Teacher: None
Tertiary Qualified Teacher: None

Section 6

Critical Classes for Student Success: Weeks 1, 2, 3, 13, and 14

Section 7

Course Duration: 14 weeks
Course Schedule: One class per week
Course Time: start 5:55 pm (fixed), end 8:40 pm (nominal)

Section 8

Bloom’s Taxonomy (Revised) of Educational Objectives:

lower order thinking skills			higher order thinking skills		
remember	understand	apply	analyze	evaluate	create
recognizing • identifying recalling • retrieving ✓	interpreting • clarifying • paraphrasing • representing • translating exemplifying • illustrating • instantiating classifying • categorizing • subsuming summarizing • abstracting • generalizing inferring • concluding • extrapolating • interpolating • predicting comparing • contrasting • mapping • matching explaining • constructing models	executing • carrying out implementing • using ✓	differentiating • discriminating • distinguishing • focusing • selecting organizing • finding coherence • integrating • outlining • parsing • structuring attributing • deconstructing	checking • coordinating • detecting • monitoring • testing critiquing • judging ✓	generating • hypothesizing planning • designing producing • constructing

Source: <http://www.celt.iastate.edu/pdfs-docs/teaching/RevisedBloomsHandout.pdf>

Section 9

Applicable Specifications:

- Accreditor (NEASC, 2011) – Compliant with 4.20 (The Major or Concentration), 4.32 (Integrity in the Award of Academic Credit)
- University – Compliant with course duration, class meetings, class duration.
- School – None
- Department – None