

EGCP 401: Engineering Economics and Professionalism Spring 2021

Lecture 1: Syllabus and Introduction

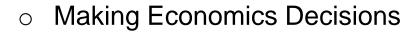
Rakesh Mahto, Ph.D. Office: E 314, California State University, Fullerton Office Hour: Monday and Wednesday 2:00 - 4:00 pm Or by appointment Zoom Meeting ID: 972 5657 5450 Email: <u>ramahto@fullerton.edu</u> Phone No: 657-278-7274

Textbook and Background

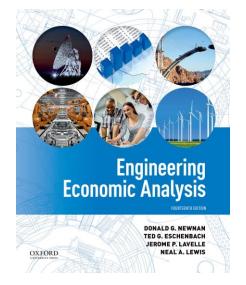
- Main reference material is your notes in the class and the handouts
- Textbook:
 - Donald G. Newnan, Ted G. Eschenbach, and Jerome P.
 Lavelle, "Engineering Economic Analysis by ", Oxford University Press, (January 20, 2017); ISBN: 0190296909
 - Lecture Notes: combination of slides, homework and annoucments will be posted on Titanium.



Textbook and Learning Goal



- Estimating Engineering Costs and Benefits
- Interest and Equivalence
- Present Worth Analysis
- Annual Cash Flow Analysis
- o Rate of Return Analysis
- Uncertainty in Future Events
- Depreciation
- Income Taxes for Corporations
- o Inflation and Price Change
- \circ $\,$ Accounting and Engineering Economy $\,$



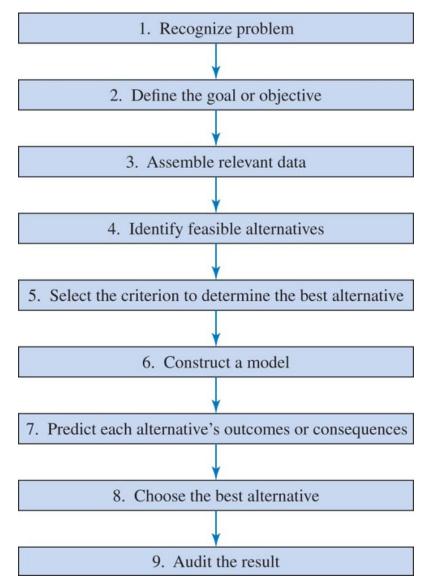
Grading Policy

• Your grade in the course will be comprised of:

- Homework (15%)
- Quizzes and Class Participation (10%)
- Mid-term (25%)
- Final Exam (30%)
- Project (20%)
- Final letter grade will be based on curve and class performance
- Your participation in class is very important
- Suggestions for success:
- Participate in the class and ask questions
- Read the lecture slides



A Decision Making Process





Problem

- Consider in the month of April you received a Stimulus Check of \$1,200 from the Federal Government.
- Instead of spending it right away you want to invest it somewhere to maximize the return.

