King Mongkut's University of Technology Thonburi



Midterm Examination Semester I Academic Year 2017

CVE 415 Construction Management

4th Year International Program in Civil Engineering

Date: 26 September 2017 Time: 13:00 – 16:00 PM

Instructions

1. Write your name on every page of this examination paper. 20 points penalty if any sheet is missing.

- 2. There are 4 questions with total score 100 points. Attempt all questions.
- 3. Write your answer on provided space. If the provided space is not enough, continue writing on the back of sheets.
- 4. Closed book; calculator is allowed; and work independently.

Dr. Pitch Sutheerawatthana

02-470-9151

This examination paper has been approved by the Department of Civil Engineering

Associate Professor Dr.Sutat Leelataviwat

Head of the Civil Engineering Department

Student Name:	Midterm Examination
Student ID:	CVE415 Construction Management
Mid-term Exa Construction Manage KMUTT	ement (CVE 415)
	100 minutes, Score: /100
INSTRUCTIONS:	
1. Write your name on every page of this exa	mination paper.
20 points penalty if any sheet is	missing.
2. Total score is 100 points. 4 Questions. Atte	empt all questions.
Write your answer on provided space. If the writing on the back of sheets.	ne provided space is not enough, continue
4. Calculator is allowed	
5. Closed book, any dictionary is NOT allow	ed, and work independently.
*** ***	***
. [25 points] Suppose that you are working as a supervise 2 piling-subcontractors in a housing you need to know or have in your hands befor work can achieve good time, cost and quality?	g construction project. What information do re you can start supervising them so that the

tudent Name:	Midterm Examination			
tudent ID:	CVE415 Construction Management			
Your project is located in down that they are risks.	sks in a high-rise building construction project (30 floors). town of Bangkok. Also describe the reason why you think			
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3 [25 points] Given	

Events	P(S _i)	Alternatives of Wall Materials			
		D ₁	D_2	D_3	D ₄
S ₁ : Material Price Increase	0.45	100,000	80,000	120,000	40,000
S ₂ : Material Price Decrease	0.25	350,000	450,000	450,000	500,000
S ₃ : No change in Price	0.30	180,000	250,000	150,000	300,000

Unit: Baht

The number in the table is estimated profit of each alternative.

- a) Make a decision under Optimistic Approach
- b) Make a decision under Conservative Approach
- c) Make a decision under Minimax Regret Approach
- d) Make a decision under Least Difference
- e) Calculate the expected profit of the alternatives.

Important Note: the way of calculation must be shown in your answer. Only answers themselves are not accepted.

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	oply the knowledge of decision-making using Decision Tree in a industry. Do not use the similar examples in lecture handouts, work assignments.
In your explanation, pleas	se write and illustrate at least below details.
1. Explanation of	situation
What are decisi	on alternatives?
What are possil	
4. Draw a decision	
	ept of sensitivity analysis to the situation.
to the situation	e knowledge of decision-making using Decision Tree can be applied
Note: you can propose an	y assumptions as far as it is well related to your explanation.