King Mongkut's University of Technology Thonburi



Midterm Examination Semester 1 Academic Year 2017

CVE 414 Construction Estimating and Specifications

4th Year International Program in Civil Engineering

Date: 28 September 2017 Time: 9.00 – 12.00 AM

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

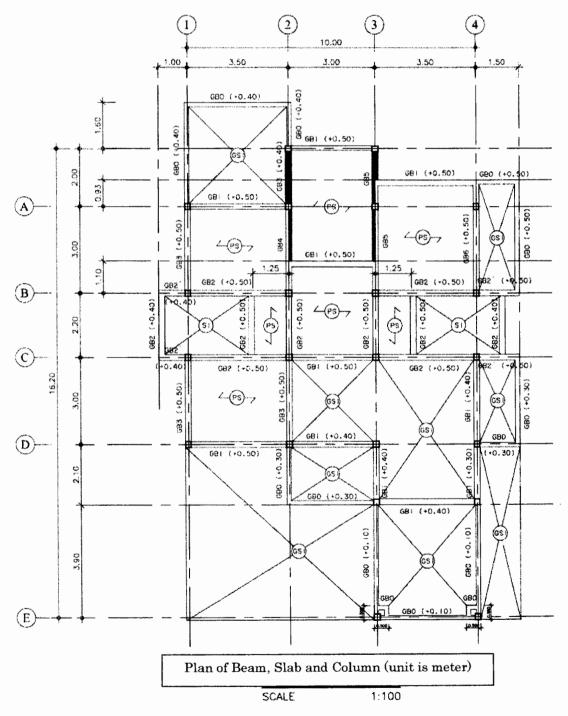
Head of the Civil Engineering Department

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Student ID:		CVE414 Construction Estimating and Specification	S
		Midterm Examination Construction Estimating and Specifications (CVE 414) KMUTT 2017	
		180 minutes, Score: /1	00
INST	RUCTION	'S :	
1.	Write you	r 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.	•	r answer on provided space. If the provided space is not enough, continue in the back of sheets.	
4.	If a stude	nt thinks that a question is incomplete, please make necessary assumptions	
5.	Closed bo	ook; any dictionary is NOT allowed; calculator is allowed; and work ently.	
		* * * *	
1. [25 points] Suppose that your boss assigns you to prepare information of ready-mixed concrete for him so that he can use your information for cost estimation of cast-in-place slab concrete work (both materials and labor cost) of a new project. What information will you find for him? Where do you get these information from?			

Student Name:	Midterm Examination
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2. [25 Points] Given the drawing below, as an engineer, you are assigned to estimate the price of beam. The purpose of this estimation is to bid this project. Please explain <u>in very details</u> the process of how to estimate quantity and unit price of beam? It is <u>not necessary to do calculation</u>. In case that you think some necessary information is missing, you can make any assumption as appropriate. Width of Beam is 0.25 meter and depth of beam is 0.40 meter for all beams.



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supervise 2 piling-subcontractors is consists of 200 houses. What information piling work of subcontractors so	working as a site engineer and your boss assigns you to in a housing construction project. This housing project rmation will you collect for knowing the actual cost of that you can send a feedback to the estimation and How will you collect these information?

Student Name:	Midterm Examination	
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Downtown of Bangkok. Suppose that	a high-rise building project (50 floors). Its location is in tyou work for a contractor who wants to bid this project, ne indirect cost of this project. What are the items of project?