



**FACULTY OF ENGINEERING
YOGYAKARTA STATE UNIVERSITY**

SILLABY OF COST ESTIMATION

No. SIL/TSP/TSP 231

Revision: 00

Date: February
2009

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SUBJECT : COST ESTIMATION
SUBJECT CODE : TSP 224
SEMESTER : ODD
STUDY PROGRAM : CIVIL ENGINEERING AND PLANNING EDUCATION (S1)
LECTURER : SATIVA, MT.

I. DESCRIPTION

This subject is a theoretical course, discussing the kind of project, the process of project, and also cost calculating of a construction project. Project resources and relevant sides which need cost as an important factors in project cost, should be firstly discussed .

II. DEVELOP COMPETENCIES

1. Explain the project resources
2. Explain the project components
3. explain the project sequences
4. explain and calculate payment for planner and supervisor
5. explain the differences of cost budget dan cost estimate
6. explain and calculate the global of project cost estimation
7. explain and calculate the project cost estimation in detail

III. INDICATORS OF ACHIEVED COMPETENCE

A. Cognitive and thinking skills aspects

1. Explain the importance of cost estimation
2. Explain the project resources
3. Explain the related sides in a project
4. Explain the sequences of a project
5. Explain and calculate payment for planner and supervisor
6. Explain the differences of cost budget dan cost estimate
7. Explain and calculate the global of project cost estimation
8. Explain and calculate the project cost estimation in detail

B. psychomotor aspects

1. explain and calculate payment for planner and supervisor
2. explain the differences of cost budget dan cost estimate
3. explain and calculate the global of project cost estimation
4. explain and calculate the project cost estimation in detail

Prepared
by: :

Sativa, MT.

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C.affective, social skills, and personality aspects

1. Having knowledge about the project organization
2. Having accuracy and precision in calculating the payment for planning consultant
3. Having accuracy and precision in calculating the payment for supervisor
4. Having accuracy and precision in calculating the global cost of a project
5. Having accuracy and precision in calculating the detail cost of a project
6. Having a responsibility and discipline in doing their jobs
7. Having ability doing their jobs in group/ able to work in a team work
8. Having ability to expression their opinion in discussion forum.

IV.REFERENCES

1. Asiyanto, 2003, Construction Project Cost Management , Pradnya Paramita, Jakarta
2. Bachtiar Ibrahim, 1996, Rencana dan *Estimate Real of Cost* , Bumi Aksara, Jakarta
3. Erviato, Wulfram I, 2005, Manajemen Proyek Konstruksi, Andi Offset, Yogyakarta
4. SNI 2007
5. Kimpraswil, 2005, Standard Bangunan Negara

V. SCORING

The final score for the course will be based on the following items:

1. Personal performance (including attendance in course)
2. Personal assignment
3. Group project
4. Midterm exam
5. Final exam

TABLE OF ACHIEMENT ON TARGETED COMPETENCIES

No	Score	requirements
1	A	Granted for students who collected at least 86 point
2	A-	Granted for students who collected at least 80 poin
3	B+	Granted for students who collected at least 75 poin
4	B	Granted for students who collected at least 71 poin
5	B-	Granted for students who collected at least 66 poin
6	C+	Granted for students who collected at least 62 poin
7	C	Granted for students who collected at least 56 poin

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WORK SCHEMA

Week	Basic competencies	topics	Learning strategy	references
1-2	Explain the importance of cost estimation and the project resources	<ol style="list-style-type: none"> 1. Meaning of cost estimation 2. Component of project resources 	Aperception, presentation, discussion	1,3
3-4	Expalin the related sides in a project and sequence of a project	<ol style="list-style-type: none"> 1. componentof related sides in a project 2. project organization 3. project sequences 	presentation, discussion, group asignment	1.3
5	explain and calculate payment for planner and supervisor	<ol style="list-style-type: none"> 1. model of payment 2. payment calculation 	presentation, discussion,	1,4
6-7	The meaning and the differences of cost budget dan cost estimate	<ol style="list-style-type: none"> 1.meaning of cost budget and of cost estimate, 2.the differences and the relation between both of them 	presentation, discussion,	1,4
8	Mid exam			
9-10	Explain and calculate the global cost	<ol style="list-style-type: none"> 1. Kind of Global cost and how calculating them 	presentation, discussion mini quiz	2,4,5
11-16	Axplain and calculate detail cost estimation	<ol style="list-style-type: none"> 1. Work breakdown structure 2. Calculate of each component of construction 3. Calculate total of detail cost estimation 	Presentation, Discussion, final asignment, suoervising of asignment	2,4

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