Subject : Cost Estimation
Subject code : TSP 231
Study program : Civil Engineering and Planning Education
Semester : V
Week : 11-16
Time Allocation : 2 x 50 menit

STANDARD OF COMPETENCY
Having knowledge about the importance of cost estimation, project resources, related sides in project, kind of payments for planner, contractor and supervisor, and also having ability to calculate the global cost and detail cost estimation of a project

BASIC COMPETENCE:
1. Having ability to explain the detail cost estimate of a project
2. Having ability to explain the work break down structure of a project
3. Having ability to calculate the detail cost of each detail component of project
4. Having ability to calculate the total cost in detail

INDICATORS OF ACHIEVED COMPETENCE:
1. explain the detail cost estimate of a project
2. explain the work break down structure of a project
3. calculate the detail cost of each detail component of project
4. calculate the total cost in detail

I. COURSE OBJECTIVES
1. Having ability to explain the detail cost estimate of a project
2. Having ability to explain the work break down structure of a project
3. Having ability to calculate the detail cost of each detail component of project
4. Having ability to calculate the total cost in detail
II. COURSE MATERIALS
1. Work break down structure
2. Calculate the volume of each components
3. Calculate the unit price of each components
4. Calculate the bill of quantity
5. Calculate the total detail cost

III. TEACHING AND LEARNING METHOD
1. Presentation
2. Discussion
3. Example test

IV. TEACHING AND LEARNING STEPS
A. Opening
1. explaining course objectives
2. aperception, giving oral test
3. motivating

B. Main Activities
1. Explain the importance of cost estimation
2. Explain the project resources
3. Explain the component of project resources

C. Closing
1. Sampling oral post test
2. summarizing

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V. LEARNING AND TEACHING TOOLS
1. white board and boardmarker
2. computer and LCD

VI. REFERENCES
2. SNI 2007

VII. SCORING
1. Techniques: written and oral test
2. Score range: 0-100