	<b>FACULTY OF ENGINEERING</b>		
	YOGYAKARTA STATE UNIVERSITY		
	<b>TEACHING-LEARNING PLAN OF COST ESTIMATION</b>		
	No. RPP/TSP/TSP 231	Revision: 00	date 15 Pebruari 2009
fifth semester	<i>DETAIL COST ESTIMATE OF A PROJECT</i>		2x50 mimutes

**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

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## 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. apercption, 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 ANDTEACHING TOOLS

1. white board and boardmarker
2. computer and LCD

#### VI. REFERENCES

1. Bachtiar Ibrahim, 1996, Rencana dan *Estimate Real of Cost* , Bumi Aksara, Jakarta
2. SNI 2007

#### VII. SCORING

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

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