

	<b>FACULTY OF ENGINEERING</b>			
	<b>YOGYAKARTA STATE UNIVERSITY</b>			
	<b>BUILDING PLANNING 1</b>			
	Semester V	ANALYSIS OF SPATIAL NEED AND DIMENSIONS		300 minutes
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**NAME OF SUBJECT : BUILDING PLANNING I**  
**CODE OF SUBJECT : TSP 224**  
**DIVISION/PROGRAM : CIVIL ENGINEERING AND PLANNING EDUCATION**  
**SEMESTER : V (FIVE)**  
**LESSON : 4-6**  
**TIME ALLOCATION : 300 MINUTES**

**COMPETENCY :**

1. Understand and be able to formulate the type of space needed on a public building function
2. Able to calculate each space dimension and calculate the minimum land area requirement

**SUB-COMPETENCY :**

1. To set types of space needed on a public building function
2. To calculate space dimension and calculate minimum land area requirement.

**INDICATOR OF COMPETENCY ACHIEVEMENT :**

1. Student able to analyze the space requirements of a public function building based on the occupants characteristic and activities; then able to grouping them into spatial zoning.
2. Student able to calculate the dimension of each space by applying a space requirement standard or anthropometric standard
3. Student able to calculate the total land area requirement in accordance with local BCR provision

**I. THE GOAL OF STUDY**

1. To explain the space requirements analysis of a public function building based on the occupants characteristic and activities and to explain spatial grouping into spatial zoning.
2. To explain the dimension calculation of each space by applying a space requirement standard or anthropometric standard
3. To explain the calculation of the total land area requirement in accordance with local BCR provision

**II. SUBJECT OF STUDY**

1. Type of space determination
2. Spatial dimension calculation
3. Total land area calculation

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### III. METHOD OF STUDY

To achieve the specified competencies, the study is conducted by applying various methods include :

- a. Lecture in class
- b. Discussion on specific topic
- c. Quiz
- d. Study case
- e. Assignment

### IV. STEP OF STUDY

#### 1. Introduction ( 30 minutes)

No	Step	media
1	Lecturer explains the importance of space requirements analysis and precisely estimating the number of space in a building	whiteboard, Laptop/computer and LCD + LC screen
2	Lecturer explains the technique to calculate the dimension of each space	whiteboard, Laptop/computer and LCD + LC screen

#### 2. Main course (250 minutes)

No	Step	media
1	Lecturer explains in detail the technique to calculate the dimension of space and spatial area needed, accompanied with the example ways to calculate it.	Reference book, whiteboard, Laptop/computer and LCD + LC screen
2	Lecturers give the examples of analysis and principles spatial dimension calculations on public buildings case	Reference book, whiteboard, Laptop/computer and LCD + LC screen
3	Questions and discussion	

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**3. Closings (20 minutes)**

No	Step	Media
1	Lecturer gives the quizzes or short question concerning the given topic to provoke the student memories	
2	Lecturer summarizes the course in an outline explanation	
3	Lecturer ask the student to set space dimension calculation to be presented in the next class	

**V. MEDIA**

Media used in this learning process include :

1. Overhead Projector/OHP
2. Laptop and power point software
4. Viewer/LCD and LCD screen
5. Whiteboard

**VI. RESOURCES / REFERENCES**

1. Sumardjito, Pokok-pokok Materi Kuliah Perencanaan Bangunan 1, 2005
2. Fakultas Teknik UI, Perancangan Yang Sistematis,
3. Christoper Jones, Design Method
4. Ernest Neufert, Architect Data
5. Edward T. White, Site Analysis

**VII. ASSESMENT STANDARD**

1. Assesment technique : Evaluate and asses the quality of student assignment substantially and technically
2. Assesment scoring :
  - a. Assignment score : 80%
  - b. Examination score : 20%

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