	Universitas Negeri Surabaya Faculty of Engineering Civil Engineering Undergraduate Study Program	Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Transportation infrastructure	2220103163	Study Program Elective Courses	T=3	P=0	ECTS=4.77	5	July 17, 2024

AUTHORIZATION	SP Developer	Course Cluster Coordinator	Study Program Coordinator
	.....	.....	Yogie Risdianto, S.T., M.T.

Learning model	**Case Studies**
Program Learning Outcomes (PLO)	**PLO study program which is charged to the course**
	Program Objectives (PO)
	PLO-PO Matrix

	P.O

PO Matrix at the end of each learning stage (Sub-PO)

P.O	Week															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Short Course Description	This lecture discusses engineering design of road infrastructure; basic theory of road transportation infrastructure design; review of the basic theory of field surveys in the field of road transportation; preparation of work programs and surveys in the transportation sector; carrying out field surveys; public transportation facilities; design of pedestrian facilities; parking facility design; design of traffic control facilities; analysis of traffic impacts on the environment; calculation of work volume and cost analysis.
References	**Main :**
	1. GR Wells. 1993. Rekayasa Lalulintas. Bhintara Jakarta 2. Ir. Leksmono Suryo. 2007. Rekayasa Lalulintas. PT Indeks
	Supporters:
Supporting lecturer	Dr. Anita Susanti, S.Pd., M.T. Purwo Mahardi, S.T., M.Sc. Abdiyah Amudi, S.T., M.T.

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (*offline*)	Online (*online*)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Understand and master the definition and scope of transportation infrastructure	1.Explain the definition of transportation planning 2.Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** scope of transportation planning and transportation planning **Reference:** *GR Wells. 1993. Traffic Engineering. Bhintara Jakarta*	4%

2	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** scope of transportation planning and transportation planning **Reference:** *Ir. Leksmono Suryo. 2007. Traffic Engineering. PT Index*	4%
3	Understand and master the definition and scope of transportation infrastructure	1.1. Explain the definition of transportation planning 2.2. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** scope of transportation planning and transportation planning **Reference:** *GR Wells. 1993. Traffic Engineering. Bhintara Jakarta*	3%
4	Understand and master the definition and scope of transportation infrastructure	1.1. Explain the definition of transportation planning 2.2. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Explaining the scope of transportation planning. **Reference:** *Ir. Leksmono Suryo. 2007. Traffic Engineering. PT Index*	4%
5	Understand and master the definition and scope of transportation infrastructure	1.1. Explain the definition of transportation planning 2.2. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Explaining the scope of transportation planning. **Reference:** *GR Wells. 1993. Traffic Engineering. Bhintara Jakarta*	4%
6	Understand and master the definition and scope of transportation infrastructure	1.1. Explain the definition of transportation planning 2.2. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Project Results Assessment / Product Assessment	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** transportation planning and the scope of transportation planning. **Reference:** *GR Wells. 1993. Traffic Engineering. Bhintara Jakarta*	3%
7	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** transportation planning and the scope of transportation planning. **Reference:** *GR Wells. 1993. Traffic Engineering. Bhintara Jakarta*	3%
8	UTS	1.1. Explain the definition of transportation planning 2.2. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities, Tests	1. Oral question and answer 2. Group discussion 3 X 50			20%

9	Understand and master the definition and scope of transportation infrastructure	1.1. Explain the definition of transportation planning 2.2. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Explaining the scope and planning of transportation. **Reference:** *Ir. Leksmono Suryo. 2007. Traffic Engineering. PT Index*	4%
10	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Scope and transportation planning **Reader:** *GR Wells. 1993. Traffic Engineering. Bhintara Jakarta*	3%
11	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Scope and transportation planning **Reference:** *Ir. Leksmono Suryo. 2007. Traffic Engineering. PT Index*	3%
12	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Scope and transportation planning **Reference:** *Ir. Leksmono Suryo. 2007. Traffic Engineering. PT Index*	3%
13	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Scope and transportation planning **Reference:** *Ir. Leksmono Suryo. 2007. Traffic Engineering. PT Index*	4%
14	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Scope and transportation planning **Reader:** *GR Wells. 1993. Traffic Engineering. Bhintara Jakarta*	4%
15	Understand and master the definition and scope of transportation infrastructure	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Participatory Activities	1. Oral question and answer 2. Group discussion 3 X 50		**Material:** Scope and transportation planning **Reference:** *Ir. Leksmono Suryo. 2007. Traffic Engineering. PT Index*	4%
16	UAS	1. Explain the definition of transportation planning. Explain the scope of transportation planning	**Criteria:** xxxxxxxxxxxxxxxxx **Form of Assessment** : Test	1. Oral question and answer 2. Group discussion 3 X 50			30%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	57%
2.	Project Results Assessment / Product Assessment	3%
3.	Test	40%

	100%

Notes

1. **Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
2. **The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
5. **Indicators for assessing** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
7. **Forms of assessment:** test and non-test.
8. **Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
9. **Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
10. **Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
11. **The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
12. TM=Face to face, PT=Structured assignments, BM=Independent study.