	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 System *	2220102102		T=2	P=0	ECTS=3.18	7	July 18, 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 that 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 course is an introduction to the meaning, objectives and forms of transportation, the role and development of transportation, components of the transportation system, modes of transportation in the transportation system, the concept of transportation networks, land use and the environment, transportation terminals for people and goods, queuing theory in transportation systems, parking , transportation planning (trip generation/trip generation, trip distribution/trip distribution, split mode/mode selection, trip assignment/traffic loading), transportation and the environment, environmental impact of transportation, sustainability of transportation, integration of transportation. Learning is carried out by applying a constructivist approach. The learning activity ends by making a written report about the transportation system, along with problems and alternative solutions.
References	**Main :**

1. Widayanti, Ari. 2013. Sistem Transportasi.Surabaya: Unesa.
2. Abubakar, Iskandar. 1995. Menuju Lalu Lintas dan Angkutan Jalan yang Tertib. Jakarta: Dirjenhubdat.
3. Morlok, Edward K. 1984. Pengantar Teknik dan Perencanaan Transportasi. terjemahan Johan Kelanaputra. Jakarta: Penerbit Erlangga.
4. Tamin, Ofyar Z. 2000. Perencanaan dan Pemodelan Transportasi. Bandung: ITB.

	Supporters:
Supporting lecturer	Purwo Mahardi, S.T., M.Sc. Fitri Rohmah Widayanti, S.Pd., 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 the meaning of destinations and forms of transportation.	Mention the meaning of purposes and forms of transportation.	**Criteria:** Full marks are obtained if you do all the questions correctly	Discussion presentation and question and answer. 2 X 50			0%
2	Understand the role and development of transportation.	Mention the role and development of transportation.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
3	Get to know the components of the transportation system.	Mention the components of the transportation system.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
4	Understand the modes of transportation in the transportation system.	Mention the modes of transportation in the transportation system.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
5	Understand the concept of transportation networks.	Make a concept analysis of transportation networks.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
6	Understanding land use and the environment.	Mention the relationship between environmental land use and transportation systems.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
7	Understanding people transport terminals.	Mention the people transport terminal.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
8	Midterm exam	-	**Criteria:** Full marks are obtained if you do all the questions correctly.	- 2 X 50			0%
9	Understanding freight transportation terminals.	Mention the goods transport terminal.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
10	Understanding queuing theory in transportation systems.	Applying queuing theory in transportation systems.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
11	Understanding Parking.	Create Parking analysis.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
12	Understand transportation planning (trip generation/trip generation/trip distribution/trip distribution).	Carry out transportation planning (trip generation/trip generation, trip distribution/trip distribution).	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
13	Understanding split mode/mode selection.	Carry out split mode analysis/mode selection.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%

14	Understanding Trip assignment/traffic loading).	Make Trip assignment/traffic loading calculations).	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
15	Understand transportation and the environment and the environmental impact of transportation.	Make transportation and environmental analyzes and the environmental impact of transportation.	**Criteria:** Full marks are obtained if you do all the questions correctly.	Discussion presentation and question and answer. 2 X 50			0%
16							0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
		0%

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** ability in the process and student learning outcomes are specific and measurable statements that identify the ability 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.