	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 Planning *	2220102086		**T=2**	**P=0**	**ECTS=3.18**	8	July 18, 2024

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

Learning model	**Project Based Learning**
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	Transport planning and national, regional city and community development programs, institutional responsibility for plan implementation, decision making of the central government transport sector and policy setting (in the institutional context), methods of monitoring and assessing transport plans, problems of cooperation between agents and the need for institutional building transport sector, planning survey
References	**Main :**

1. ----------. 1999. *Prosiding Simposium I, Forum Studi Transportasi antar Perguruan Tinggi* . Bandung: ITB.
   ----------. 2000. Jurnal Transportasi , FSTPT. Volume2 Nomor 1 13 Juni 2000. Bandung: ITB.
   Morlok, Edward K. 1989. *Pengantar Teknik dan Perencanaan Transportasi* . Jakarta: Penerbit Erlangga.
   Nasution, M. Nur. 2004. *Manajemen Transportasi* . Edisi Kedua. Jakarta: Penerbit Ghalia Indonesia.
   Warpani, Suwardjoko. 1990. *Merencanakan Sistem Perangkutan* . Bandung: ITB
   Tamin,Ofyar Z. 2000. *Perencanaan danPemodelan Transporatsi* . Edisi ke 2. Bandung : Penerbit ITB.
   Rizky, Adhi. 2012. *Preferensi Pemilihan Moda Dalam Pergerakan Penglaju Koridor Bogor-Jakarta Terkait dengan Pemilihan Tempat Tinggal* . Jakarta : BPPJT

	Supporters:
Supporting lecturer	Dr. Ir. H. Dadang Supriyatno, M.T. Purwo Mahardi, S.T., M.Sc. Amanda Ristriana Pattisinai, 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 planning	1. Explain the definition of transportation planning. 2. Explain the scope of transportation planning	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
2	Understand and master the concept of the origin and destination movement system (Origin Destination)	Students can understand the movement system of various regions based on the Origin Destination survey.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
3	Students understand the land use system in transportation planning	1. Be able to explain the concept of land use systems in transportation. 2. Be able to explain the relationship between land use and the transportation planning system.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
4	Students understand transportation network systems, especially transportation systems.	1. Be able to explain the purpose of the transportation network system. 2. Be able to explain the types of transportation network systems.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
5	Students understand and master the interactions between components of the land use system and transportation network systems.	Students can explain the interaction of land use components with network systems to create transportation sustainability.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
6	Students understand and master the basic concepts and four-stage model in transportation planning.	Explains the basic concepts of four stages in transportation planning.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
7	Students are able to understand and discuss the trip generation stages	1. Explain the concept of trip generation and attraction in trip generation. 2. Explain the models in trip generation	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral question and answer 2. 2 X 1 group discussion			0%
8	UTS	UTS	**Criteria:** UTS	UTS 2 X 50			0%

9	Understand and master the concept of the origin and destination matrix and the basic principles of the trip distribution model.	1. Able to explain the matrix concept of the origin and purpose of trip distribution. 2. Explain the basic principles of the model in trip distribution.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
10	Students are able to understand various analogy models and synthesis models.	1. Explain the various analogy models (growth factors) 2. Explain the various synthetic models.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral question and answer 2. 2 X 1 group discussion			0%
11	Students understand and master the concept of influencing factors in mode selection.	Explain the concept of mode choice and the factors that influence it.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
12	Students know the mode choice model using the stated preference method.	Students know the mode choice model using the stated preference method.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
13	Students understand and master the basic concepts of selecting public or private transportation routes.	Explain the basic concept of selecting public or private transport routes.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
14	Students understand the capacity restraint model.	Explain the capacity restraint model in transportation planning systems	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral question and answer 2. 2 X 1 group discussion			0%
15	Students understand the comparative road factor model	Students can explain the comparative road factor model	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%
16	Students understand and master the use of four models in transportation planning.	Students can explain the four uses of models in transportation planning.	**Criteria:** You get full marks if you do the questions and do everything correctly	1. Oral questions and answers 2. Group discussion 2 X 50			0%

Evaluation Percentage Recap: Project Based Learning

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.