

Universitas Negeri Surabaya Faculty of Engineering Civil Engineering Undergraduate Study Program

Document Code

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Courses		COL	CODE		Cour	Course Family			Credit Weight					SE	MES	STER	Co Da		lation		
Traffic Engineering AUTHORIZATION			2220	2220102124								2	P=0	ECT	S=3.18	3	7		July 18, 2024		, 2024
			SP I	SP Developer					Course Cluster Coordinator							Study Program Coordinator					
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Learning model	I	Case Studies																			
Program		PLO study program that is charged to the course																			
Learning Outcom		Program Objectives (PO)																			
(PLO)		PLO-PO Matrix																			
			F	P.O																	
		PO Matrix at th	e end of e	ach le	earnin	ng stag	e (Sub	-PO)													
			P.0					Week											, M.T.		
				1	2	3 4	5	6	7	8	9	1	10	11	12	13	1	L4	15	16	6
Short Course Descript	tion	Characteristics of systems, accider progress populati	nts, invento	ry, pu	blic tra	ansport,	transp	ortatio	n of	good	ds, tl	he r	relati	ionshi	o betw	een	spee	ed, ca			
Referen	ces	Main :																			
		 Dirjendat Tamin, C White, P.) fyar Z. 199	2. Per	encana	aan Dan	Pemoo	lelan T	rans	porta	ısi. B	and									
		Supporters:																			
Support lecturer		Dr. Ir. H. Dadang Amanda Ristriana																			
Week-		nal abilities of ach learning age		Evaluation				Learr Studen			Help Learning, arning methods, ent Assignments, Estimated time]				n	Learning materials [References			Assessment Weight (%)		
	(Sub-PO)		Indicat	Indicator Criteria & Fo			Form			ine(ine)		Online (onlin			ne)]				
(1)		(2)	(3)			(4)			(5)					(6)			(7))		(8)
1	un de ba en Ch tra tre	udents derstand the finition of the sics of traffic gineering theory. laracteristics of ffic flow. Growth nds and ecasting.	Students understa the characte of traffic and the influenci factors	nd ristics flow	ma the do	eria: u get full rks if yo questio everythi rectly	u do ns and	Discu narro the n of tra engir 2 X 5 engir plan	ow do nean affic neeri 50 tra neeri	own ing ng in affic										09	6

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2	Students understand the characteristics of traffic components: - Facilities - Road Users - Infrastructure	Students can understand the development of traffic trends in land use growth	Criteria: You get full marks if you do the questions and do everything correctly	Discuss traffic growth and efforts to prepare 2 X 50 road infrastructure		0%
3	Students understand the characteristics of highways and the characteristics of intersections	Students understand the components of highways and intersections	Criteria: You get full marks if you do the questions and do everything correctly	Discuss examples of components that influence the characteristics of 2 X 50 highways and intersections		0%
4	Students are able to understand traffic survey techniques: Types of traffic surveys Planning traffic surveys Survey inventions.	Students can understand and differentiate the definitions of each sub- material.	Criteria: You get full marks if you do the questions and do everything correctly	Discuss the traffic survey process to support planning and evaluation of road capacity and 2 X 50 intersections		0%
5	Students are able to understand the meaning of traffic counting: - Volume survey - Speed survey - Parking survey	Students can understand various traffic survey techniques and use data for design purposes	Criteria: You get full marks if you do the questions and do everything correctly	Discuss the methods for calculating 2 X 50 traffic counting		0%
6	Students are able to understand the needs/calculations of capacity and service levels for road sections	Students are able to calculate the performance of sections and intersections	Criteria: You get full marks if you do the questions and do everything correctly	Discuss the calculation method and discuss the results of the 2 X 50 calculation		0%
7	Students are able to understand capacity calculation planning and service levels for priority intersections	Students are able to analyze the capacity needs of road intersections according to the conditions of the surrounding environment	Criteria: You get full marks if you do the questions and do everything correctly	Discuss the factors that influence the capacity analysis of the 2 X 50 priority intersection		0%
8	UTS	UTS	Criteria: UTS	UTS 1 X 1		0%
9	Students understand and comprehend capacity calculations and service levels for intersections with traffic signaling devices	Students are able to explain the need for road transportation infrastructure in the form of APILL	Criteria: You get full marks if you do the questions and do everything correctly	Students discuss the development of 2 X 50 road infrastructure needs		0%
10	Students understand & comprehend capacity calculations and service levels for roundabout and interchange intersections.	Students are able to explain the need for road transportation infrastructure in the form of APILL	Criteria: You get full marks if you do the questions and do everything correctly	Students discuss the development of 2 X 50 road infrastructure needs		0%
11	Students are able to understand traffic signs, road markings and road equipment	Students are able to understand the definition and role of road equipment	Criteria: You get full marks if you do the questions and do everything correctly	Students discuss the importance of road equipment needs in supporting the safety of 2 X 50 roads		0%

12	Motor vehicle parking: Types of parking space requirements. Design of roadside parking	Students are able to understand parking needs and correct parking placement	Criteria: You get full marks if you do the questions and do everything correctly	Discuss the parking design based on the available road space for 2 X 50 onstreet parking		0%
13	Students are able to recognize and understand motorized vehicle parking: - Geometric design of off-street parking (buildings/parking parks) Parking control	Students are able to understand the forms of parking on roads	Criteria: You get full marks if you do the questions and do everything correctly	Discuss about the 2 X 50 parking space unit		0%
14	Students are able to recognize and understand analysis for pedestrians and analysis for cyclists	Students are able to understand the planning stages of pedestrian facilities and bicycle lanes	Criteria: You get full marks if you do the questions and do everything correctly	Discuss the importance of sustainable transportation in urban areas by implementing 2 X 50 pedestrian and bicycle lanes		0%
15	Students are able to know and understand traffic safety: - Collecting traffic accident data - Analysis of accidents and forces in accidents	Students are able to understand and analyze accidents	Criteria: You get full marks if you do the questions and do everything correctly	Discuss accident data and techniques for recording the needs for 2 X 50 accident incidents in the field		0%
16	Students are able to know and understand traffic safety: - Collecting traffic accident data - Analysis of accidents and forces in accidents	Students are able to understand and analyze accidents	Criteria: You get full marks if you do the questions and do everything correctly	Discuss accident data and techniques for recording the needs for 2 X 50 accident incidents in the field		0%

Evaluation Percentage Recap: Case Study

No Evaluation Percentage

Notes

- 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
- 10. Learning indentias are dealed of descriptions of study indentials which earlie presented in the form of several mathematical 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.