



**Universitas Negeri Surabaya  
Vocational Faculty,  
D4 Transportation Study Program**

Document  
Code

**SEMESTER LEARNING PLAN**

<b>Courses</b>	<b>CODE</b>	<b>Course Family</b>	<b>Credit Weight</b>	<b>SEMESTER</b>	<b>Compilation Date</b>																																
Public Transport Operations	3930102048		T=2 P=0 ECTS=3.18	3	July 16, 2024																																
<b>AUTHORIZATION</b>	<b>SP Developer</b>		<b>Course Cluster Coordinator</b>		<b>Study Program Coordinator</b>																																
	.....		.....		Dr. Anita Susanti, S.Pd., M.T.																																
<b>Learning model</b>	Case Studies																																				
<b>Program Learning Outcomes (PLO)</b>	PLO study program that is charged to the course																																				
	Program Objectives (PO)																																				
	PLO-PO Matrix																																				
		P.O																																			
<b>Short Course Description</b>	Definition and objectives of public transport operations, types of public transport, characteristics of public transport and public transport services, operation of public transport in cities, outside cities and between cities with special designation on difficulties in provision during the busiest periods, institutions and organization of implementation, determination service routes, service route trajectories, determining the number of fleets, forms of payment and determining public transport fares, aspects of public transport infrastructure and facilities.																																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 5%;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td> </tr> </table>					P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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<b>References</b>	<b>Main :</b>																																				
	<ol style="list-style-type: none"> <li>1. Teknik Sipil ITB. 1997. Modul Pelatihan Perencanaan Angkutan Umum (PublicTransport System Planning). Bandung: FTSP ITB.</li> <li>2. Dirjendat. 1996. Pedoman Teknis Penyelenggaraan Angkutan Penumpang Umum di Wilayah Perkotaan dalam Trayek Tetap dan Teratur. Jakarta: Dirjendat.</li> <li>3. Morlok, Edward K. 1989. Pengantar Teknik dan Perencanaan Transportasi. Jakarta: Penerbit Erlangga.[</li> <li>4. Vukan, R. Vuchic. 1983. Urban Public Transportation System and Technology. New Jersey: Prentice Hall, Englewood Cliffs.</li> <li>5. Warpani, Suwardjoko. 1990. Merencanakan Sistem Perangkutan. Bandung: ITB.</li> <li>6. Warpani, Suwardjoko. 2002. Pengelolaan LaluLintas dan Angkutan Jalan Raya. Bandung: ITB.</li> <li>7. Modul dari internet, laporan penelitian transportasi, jurnal nasional dan internasional dll.</li> <li>8. Widayanti, A. 2021. Operasi Angkutan Umum. Surabaya: D4 Transportasi, Fakultas Vokasi, Universitas Negeri Surabaya.</li> <li>9. Pedoman dan Peraturan tentang Angkutan Umum.</li> </ol>																																				
	<b>Supporters:</b>																																				
<b>Supporting lecturer</b>	Dr. Ir. H. Dadang Supriyatno, M.T. Dr. Ari Widayanti, S.T., M.T. Kusuma Refa Haratama, S.Pd., M.Sc.																																				
<b>Week-</b>	<b>Final abilities of each learning stage (Sub-PO)</b>	<b>Evaluation</b>		<b>Help Learning, Learning methods, Student Assignments, [ Estimated time ]</b>		<b>Learning materials [ References ]</b>	<b>Assessment Weight (%)</b>																														
		<b>Indicator</b>	<b>Criteria &amp; Form</b>	<b>Offline ( offline )</b>	<b>Online ( online )</b>																																
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)																														

1	Students understand the definition of the objectives and scope of Public Transport Operations.	Students understand the definition of the objectives and scope of Public Transport Operations.	<p><b>Criteria:</b> You get full marks if you do the questions and do everything correctly</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Class discussion. 2 X 50		<p><b>Material:</b> Definition of objectives and scope of Public Transport Operations.</p> <p><b>References:</b> <i>Widayanti, A. 2021. Public Transport Operations. Surabaya: D4 Transportation, Vocational Faculty, Surabaya State University.</i></p> <hr/> <p><b>Material:</b> Definition of objectives and scope of Public Transport Operations.</p> <p><b>References:</b> <i>ITB Civil Engineering. 1997. Public Transport Planning Training Module (PublicTransport System Planning). Bandung: FTSP ITB.</i></p>	10%
2	Students understand the types of public transportation used by the community in their daily activities.	Students can correctly name the types of public transportation used by the community.	<p><b>Criteria:</b> You get full marks if you do the questions and do everything correctly</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. 2 X 50		<p><b>Material:</b> Types of public transportation used by the community in their daily activities.</p> <p><b>References:</b> <i>Widayanti, A. 2021. Public Transport Operations. Surabaya: D4 Transportation, Vocational Faculty, Surabaya State University.</i></p> <hr/> <p><b>Material:</b> Types of public transportation used by the community in their daily activities.</p> <p><b>Library:</b> <i>Modules from the internet, transportation research reports, national and international journals etc.</i></p>	10%

3	Students understand the characteristics of public transportation.	Students can correctly name the characteristics of public transportation. Students are able to identify the characteristics of public transportation currently operating.	<p><b>Criteria:</b> You get full marks if you do the questions and do everything correctly</p> <p><b>Form of Assessment :</b> Project Results Assessment / Product Assessment</p>	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. 2 X 50		<p><b>Material:</b> Characteristics of public transport.</p> <p><b>References:</b> <i>Widayanti, A. 2021. Public Transport Operations. Surabaya: D4 Transportation, Vocational Faculty, Surabaya State University.</i></p> <hr/> <p><b>Material:</b> Characteristics of public transport.</p> <p><b>References:</b> <i>Vukan, R. Vuchic. 1983. Urban Public Transportation Systems and Technology. New Jersey: Prentice Hall, Englewood Cliffs.</i></p>	15%
4	Students understand the characteristics of public transportation services.	Students can correctly state the characteristics of public transport services. Students are able to identify the characteristics of public transport services currently operating.	<p><b>Criteria:</b> You get full marks if you do the questions and do everything correctly</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. 2 X 50		<p><b>Material:</b> Characteristics of public transport services.</p> <p><b>References:</b> <i>Widayanti, A. 2021. Public Transport Operations. Surabaya: D4 Transportation, Faculty of Vocational Studies, Surabaya State University.</i></p> <hr/> <p><b>Material:</b> Characteristics of public transport services.</p> <p><b>References:</b> <i>Civil Engineering ITB. 1997. Public Transport Planning Training Module (PublicTransport System Planning). Bandung: FTSP ITB.</i></p>	10%
5	Students are able to understand the operation of public transportation.	Students can explain in detail the operation of public transportation. Students can analyze the operation of public transport within and outside the city and between cities with special attention to the difficulties in providing it during the busiest times.	<p><b>Criteria:</b> You get full marks if you do the questions and do everything correctly</p> <p><b>Form of Assessment :</b> Project Results Assessment / Product Assessment</p>	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. 2 X 50		<p><b>Material:</b> Operation of public transport within and outside the city and between cities with special attention to difficulties in providing it during the busiest times.</p> <p><b>Bibliography:</b> <i>Warpani, Suwardjoko. 1990. Planning Transportation Systems. Bandung: ITB.</i></p>	15%

6	Students are able to understand the institutions and organizations that provide public transportation.	Students can describe in detail the institutions and organizations providing public transport. Students can analyze public transport institutions and organizations encountered in daily activities.	<p><b>Criteria:</b> You get full marks if you do the questions and do everything correctly</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. 2 X 50		<p><b>Material:</b> Institutions and organizations providing public transport.</p> <p><b>References:</b> <i>Widayanti, A. 2021. Public Transport Operations. Surabaya: D4 Transportation, Faculty of Vocational Studies, Surabaya State University.</i></p> <hr/> <p><b>Material:</b> Institutions and organizations providing public transport.</p> <p><b>Bibliography:</b> <i>Guidelines and Regulations on Public Transport.</i></p> <hr/> <p><b>Material:</b> Institutions and organizations providing public transport.</p> <p><b>Library:</b> <i>Modules from the internet, transportation research reports, national and international journals etc.</i></p>	10%
7	Students are able to understand the determination of public transport service routes.	Students are able to state in detail the basic considerations in determining public transport service routes. Students can evaluate current public transport service routes.	<p><b>Criteria:</b> You get full marks if you do the questions and do everything correctly</p>	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. Make maps and evaluate public transport routes in groups. 2 X 50			0%
8	UTS	UTS	<p><b>Criteria:</b> UTS</p>	UTS 2 X 50			0%

9	Students understand about public transportation service routes.	Students are able to tell the path of service routes on several public transportation encountered.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. Make a paper in the form of an evaluation of the trajectory of public transport routes in groups. 2 X 50			0%
10	Students understand how to determine the optimal number of public transport fleets.	Students are able to correctly describe the stages in determining the optimal number of public transport fleets. Students are able to calculate the optimal number of public transport fleets.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	Listen to the presentation of material by the lecturer. Discuss in groups regarding the stages of calculating the number of public transport fleets and discuss the calculation results. Take an active role in group discussion activities. 2 X 50			0%
11	Students are able to understand the things that must be prepared in a public transport fleet survey.	Students are able to carry out public transport fleet surveys correctly and the data obtained is as expected.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	Students carry out a survey of the public transportation fleet divided into groups. 2 X 50			0%
12	Students are able to understand the definition of public transport fares and the forms of payment that apply in today's society.	Students are able to state in detail the definition of tariffs and forms of payment. Students are able to identify forms of payment for public transportation in everyday life.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	2 X 50			0%
13	Students are able to understand the determination of public transport fares.	Students are able to correctly describe the stages in determining the applicable public transport fares. Students are able to calculate public transportation fares.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	Listen to the presentation of material by the lecturer. Discuss in groups regarding the stages of calculating public transport fares and discuss the calculation results. Take an active role in group discussion activities. 2 X 50			0%

14	Students are able to understand aspects of public transportation infrastructure.	Students are able to describe in detail aspects of public transport infrastructure. Students can analyze public transportation infrastructure in the city of Surabaya and their hometown.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	Listen to the presentation of material by the lecturer. Read the photocopied hand out. Underline from reference books/hand outs. Take an active role in class discussion activities. 2 X 50			0%
15	Students are able to recognize and understand aspects of public transportation facilities.	Students are able to explain in detail aspects of public transportation facilities. Students can analyze public transportation facilities in the city of Surabaya and their hometown.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	Listen to the presentation of material by the lecturer. Read photocopied handouts. Underline from reference books/hand outs. Take an active role in class discussion activities. 2 X 50			0%
16	Students are able to understand the entire material of public transport operations.	Students can understand and analyze public transportation operations in the city of Surabaya and their hometown.	<b>Criteria:</b> You get full marks if you do the questions and do everything correctly	Take an active role in class discussion activities. 2 X 50			0%

#### Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	40%
2.	Project Results Assessment / Product Assessment	30%
		70%

#### 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Forms of assessment:** test and non-test.
- 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.
- 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.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 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%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.

