

## Universitas Negeri Surabaya Faculty of Social and Legal Sciences Geography Education Undergraduate Study Program

Document Code

## SEMESTER LEARNING PLAN

|                                |  |   |   |                  |                      |                  |  |   |             |                    | _           |  |                   |                     |                 |                     |         | _          |            |      |
|--------------------------------|--|---|---|------------------|----------------------|------------------|--|---|-------------|--------------------|-------------|--|-------------------|---------------------|-----------------|---------------------|---------|------------|------------|------|
| Courses                        |  |   | CODE  |                  |                      |                  | Cou                                      | rse Fa  | amily       |                    | Cre         | edit W                                   | eight             |                     | S               | EMES                | TER     | Con<br>Dat | npila<br>e | tion |
| Transportatio                  | on Geography   |   | 8720202054                                  |                  |                      |                  |  |   |             |                    | T=2         | 2 P=                                     | 0 EC              | TS=3.1              | .8              | 7                   |         | July       | 17, 2      | 2024 |
| AUTHORIZAT                     | ION  |   | SP Developer                                |                  |                      |                  |  |   |             | Cours              | se Clu      | uster                                    | Coord             | linator             | S               | tudy F              | Progra  | m Co       | ordin      | ator |
|                                |  |   | Dr. Muzayanah, M.T / Dr. Sri Murtini, M.Si. |                  |                      |                  | Dr, Nugroho Hari Purnomo,<br>S.P., M.Si. |   |             |                    | 1           | Dr. Nugroho Hari Purnomo,<br>S.P., M.Si. |                   |                     |                 |                     |         |            |            |      |
| Learning<br>model              | Case Studies   |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
| Program                        | PLO study pro  | ogram   | that is cha                                 | rged             | to th                | e co             | urse                                     |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
| Learning<br>Outcomes<br>(PLO)  | PLO-3  | 0-3 Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                | PLO-7  | Able<br>geog  | to make app<br>raphic appro                 | ropriat<br>ach   | te dec               | cision           | s to re                                  | esolve  | regi        | onal pr            | oblen       | ns in a                                  | a spati           | al conte            | ext ba          | ased o              | n an ii | ntegra     | ted        |      |
|                                | PLO-8  | Able<br>integ   | to obtain, pro<br>rated geogra              | ocess,<br>phic s | analy<br>tudies      | /ze, p<br>s with | in-de                                    | nt geos<br>pth ur   | sphe<br>ban | re data<br>studies | and<br>that | inform<br>suppo                          | nation<br>ort reg | using g<br>ional su | leosp<br>Istain | atial te<br>ability | echnol  | ogy in     |            |      |
|                                | Program Objectives (PO)  |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                | PO - 1         Synthesizing the concept of transportation modes in geography   |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                | PO - 2 Apply vehicle equivalence calculations and road capacity  |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                | PO - 3   | PO-3 Synthesize spatial, regional and environmental theories in analyzing transportation problems in supporting sustainable regional development  |   |                  |                      |                  |  |   | rting       |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                | PO - 4 Implement traffic survey planning, observation, calculation and analysis of traffic survey results  |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                | PLO-PO Matrix  | x   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                |  |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                |  | _   | P.0   | PLO-3            |                      |                  | PLO-7                                    |   |             | PLO-               | 8           | _  |                   |                     |                 |                     |         |            |            |      |
|                                |  |   | PO-1  | _                | <ul> <li></li> </ul> |                  |  |   |             | <i>✓</i>           |             |  |                   |                     |                 |                     |         |            |            |      |
|                                |  |   | PO-2  |                  |                      |                  |  | 1   |             |                    |             |  | _                 |                     |                 |                     |         |            |            |      |
|                                |  | _   | PO-3  | $\perp$          | •                    | /                |  | 1   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                |  |   | PO-4  |                  |                      |                  |  |   |             | ✓                  |             |  |                   |                     |                 |                     |         |            |            |      |
|                                |  |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                | PO Matrix at tl  | he end  | d of each le                                | arnin            | ig sta               | age (            | Sub-                                     | PO)   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
|                                |  | _   |   | <del></del>      |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            | т    |
|                                |  |   | P.0   |                  | 1                    | 1                |  | 1   | 1           | 1                  | <u>۱</u>    | Week                                     |                   | r r                 |                 | 1                   | 1       | 1          | 1          | _    |
|                                |  |   |   | 1                | 2                    | 3                | 4  | 5   | 6           | 7                  | 8           | 9  | 10                | 11                  | 12              | 13                  | 14      | 15         | 16         | _    |
|                                |  | PC  | D-1   | _                |                      | 1                | 1  | 1   |             |                    |             |  |                   |                     |                 |                     |         |            |            | _    |
|                                |  | PC  | D-2   | _                |                      |                  |  |   | 1           | ~                  |             |  |                   |                     |                 |                     |         |            |            | _    |
|                                |  | PC  | D-3   | 1                | ~                    |                  |  |   |             |                    | 1           |  |                   |                     |                 |                     |         |            | ~          | 4    |
|                                |  | PC  | D-4   |                  |                      |                  |  |   |             |                    |             | 1  | 1                 | 1                   | 1               | 1                   | 1       | 1          |            |      |
| Short<br>Course<br>Description | Transportation of<br>course, students<br>planning; city tr<br>equivalent and r<br>geographic app<br>accompanied by<br>to master Trans<br>sustainable reg<br>problems using | peography is a course that analyzes transportation problems using a geographical approach. After taking<br>is are expected to understand: the concept of transportation geography; transportation system; basic transport<br>ansportation modes; transportation problems and solutions. Apart from that, it is also able to calculate vel<br>oad capacity; vehicle equivalence; planning and carrying out traffic surveys; and analyzing survey results usin<br>roach. The learning model used is a project based learning approach with discussion methods, lect<br>or questions and answers and group assignments. It is hoped that this study material will be able to enable stud<br>portation Geography as practitioners or teachers. For practitioners, this study can be used as a basis for workir<br>onal planning and development. For teachers, this study can introduce students to analyzing transport<br>geospatial technology. |   |                  |                      |                  |  | this<br>ation<br>hicle<br>ing a<br>tures<br>lents<br>ng in<br>ation |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |
| References                     | Main :   |   |   |                  |                      |                  |  |   |             |                    |             |  |                   |                     |                 |                     |         |            |            |      |

| 1                    | Г  |  |  |  |   |                          |  |                          |  |  |
|----------------------|--|--|--|--|---|--------------------------|--|--------------------------|--|--|
|                      | <ol> <li>Adisasmita, R., Adisasmita, S.A. 2011. Manajemen transportasi darat, mengatasi kemacetan lalu lintas di kota besar<br/>(Jakarta). Graha Ilmu.</li> <li>Adisasmita, S.A. 2011. Jaringan transportasi, teori dan analisis. Graha Ilmu.</li> <li>Gunardo. 2014. Geografi Transportasi. Ombak.</li> <li>Miro, Fidel. 1997. Sistem transportasi kota. Transito Bandung.</li> <li>Miro, Fidel. 2005. Perencanaan transportasi untuk mahasiswa, perencana dan praktisi . Erlangga.</li> <li>Miro, Fidel. 2012. Pengantar sistem transportasi . Erlangga.</li> <li>Morlok, E. 2010. Pengantar teknik dan perencanaan transportasi</li> <li>Taaffe, E, Howard L.G., Morton, E.O.1996. Geography of transportation 2ed. Printed in the United States of America.</li> <li>Murtini, S. 2021. Buku Ajar Geografi Transportasi. Unesa Press</li> </ol> |  |  |  |   |                          |  |                          |  |  |
|                      | Supporters:  |  |  |  |   |                          |  |                          |  |  |
|                      | <ol> <li>Marbun. 1994. Kota Indonesia masa depan, masalah &amp; prospek . Erlangga.</li> <li>Muta 'ali, Lutfi. 2013. Penataan ruang wilayah dan kota (tinjauan normatif-teknis) . BPFG UGM Yogyakarta</li> <li>Nursid, K. 1988. Geografi pembangunan. Depdikbud, Dirjen Dikti, Jakarta.</li> </ol>   |  |  |  |   |                          |  |                          |  |  |
| Supporti<br>lecturer | ing  | Dr. Sri Murtini, N<br>Dr. Muzayanah,   | A.Si.<br>S.T., M.T.  | 2:   |   |                          |  |                          |  |  |
| Week-                | Fina<br>each<br>stag   | I abilities of<br>learning   | Eval   | uation   | Help Learning,<br>Learning methods,<br>Student Assignments,<br>[Estimated time] |                          | Learning<br>materials<br>[References   | Assessment<br>Weight (%) |  |  |
|                      | (Sub   | р-РО)  | Indicator  | Criteria & Form  | Offline(<br>offline)  | Online ( <i>online</i> ) | 1  |                          |  |  |
| (1)                  |  | (2)  | (3)  | (4)  | (5)   | (6)                      | (7)  | (8)                      |  |  |
|                      | Stut<br>to c<br>trar<br>geo<br>the<br>geo  | Idents are able<br>understand the<br>neept of<br>hsportation<br>ography and<br>study of<br>sportation<br>ography | Able to explain<br>the concept of<br>transportation<br>geography | Criteria:<br>Participation:<br>carried out by<br>observing student<br>activities (weight 2)<br>Tasks: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Participatory<br>Activities | cooperative<br>learning<br>2 X 50   |                          | Material:<br>definition of<br>transportation<br>Bibliography:<br>Miro, Fidel.<br>2012.<br>Introduction to<br>transportation<br>systems.<br>Erlangga.<br>Material:<br>transportation<br>problems<br>References:<br>Adisasmita,<br>SA 2011.<br>Land<br>transportation<br>management,<br>overcoming<br>traffic<br>congestion in<br>big cities<br>(Jakarta).<br>Science<br>House.<br>Material:<br>transportation<br>geography<br>concept<br>Reader:<br>Gunardo.<br>2014.<br>Transportation<br>geography.<br>Concept<br>Reader:<br>Gunardo.<br>2014.<br>Transportation<br>Geography.<br>Wave.<br>Material:<br>impact of<br>development<br>on<br>transportation<br>Reference:<br>Nursid, K.<br>1988.<br>Geography of<br>development.<br>Department of<br>Education and<br>Culture,<br>Director<br>General of<br>Higher<br>Education,<br>Jakarta. | 5%                       |  |  |

|  | Material: the<br>relationship<br>between<br>spatial<br>planning and<br>transportation<br><b>References:</b><br><i>Muta 'ali, Lutfi.</i><br>2013.<br><i>Regional and</i><br>wrban sector  |
|--|--|
|  | Yogyakarta<br>Material:<br>introduction to<br>transportation<br>geography<br>References:<br>Taaffe, E,<br>Howard LG,<br>Morton,<br>EO1996.<br>Geography of<br>transportation<br>2ed. Printed in<br>the United<br>States of<br>America. |

| 2 | Students are able<br>to understand<br>transportation | 1.Explain the<br>national<br>transportation   | Criteria:<br>description rubric          | cooperative<br>learning<br>2 X 50 | Material:<br>basics of<br>transportation   | 5% |
|---|--|---|--|-----------------------------------|--|----|
|   | problems   | system<br>2.Explain the<br>city's   | Form of<br>Assessment :<br>Participatory |                                   | Reference:<br>Adisasmita,<br>R.,   |    |
|   |  | transportation<br>policy<br>3.Explain<br>effective and<br>efficient<br>transportation | Activities                               |                                   | Adisasmita,<br>SA 2011.<br>Land<br>transportation<br>management,<br>overcoming<br>traffic<br>congestion in<br>big cities |    |
|   |  |   |  |                                   | (Jakarta).<br>Science<br>House.<br>Material:   |    |
|   |  |   |  |                                   | sistranas<br><b>Reference:</b><br>Adisasmita,<br>SA 2011.<br>Transportation<br>networks,                                 |    |
|   |  |   |  |                                   | theory and<br>analysis.<br>Science<br>House.   |    |
|   |  |   |  |                                   | effective and<br>efficient<br>transportation<br><b>Reference:</b><br><i>Adisasmita,</i><br><i>SA 2011.</i>               |    |
|   |  |   |  |                                   | Transportation<br>and regional<br>development.<br>Science<br>House.  |    |
|   |  |   |  |                                   | Material:<br>effective and<br>efficient<br>transportation<br>system<br>References:                                       |    |
|   |  |   |  |                                   | Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung.   |    |
|   |  |   |  |                                   | Material:<br>transportation<br>in supporting<br>regional<br>development  |    |
|   |  |   |  |                                   | <b>Reference:</b><br>Marbun. 1994.<br>Indonesian<br>cities of the<br>future,   |    |
|   |  |   |  |                                   | problems &<br>prospects.<br>Erlangga.  |    |

| 3 | Students are able<br>to understand the<br>role of geographic<br>elements in<br>transportation | <ol> <li>Explain the transportation planning process</li> <li>Explains the 4 stage transportation planning model</li> </ol>                                     | Criteria:<br>Participation:<br>carried out by<br>observing student<br>activities (weight 2)<br>Tasks: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Participatory<br>Activities | 2 X 50   | cooperative learning | Material: land<br>transportation<br>management<br>Reference:<br>Adisasmita,<br>SA 2011.<br>Land<br>transportation<br>management,<br>overcoming<br>traffic<br>congestion in<br>big cities<br>(Jakarta).<br>Science<br>House.<br>Material:<br>transportation<br>in supporting<br>regional<br>development<br>Reference:<br>Adisasmita,<br>SA 2011.<br>Transportation<br>and regional<br>development.<br>Science<br>House.<br>Material: 4<br>stages of<br>transportation<br>planning<br>Reference:<br>Miro, Fidel.<br>2005.<br>Transportation<br>planners and<br>practitioners.<br>Erlangga. | 5% |
|---|---|---|--|--|----------------------|--|----|
| 4 | Able to<br>understand city<br>transportation<br>modes   | <ul> <li>1.1. Explain the city's modes of transportation</li> <li>2.2. Explain the mode choice model</li> <li>3.3. Explain the route selection model</li> </ul> | Criteria:<br>Participation:<br>carried out by<br>observing student<br>activities (weight 2)<br>Tasks: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Participatory<br>Activities | Presentation,<br>discussion<br>and<br>reflection<br>2 X 50 | cooperative learning | Material: city<br>transportation<br>system<br>References:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung.<br>Material: city<br>transportation<br>modes<br>References:<br>Taaffe, E,<br>Howard LG,<br>Morton,<br>EO1996.<br>Geography of<br>transportation<br>2ed. Printed in<br>the United<br>States of<br>America.  | 5% |

| 5 | Students are able<br>to understand the<br>role of<br>transportation in<br>human life | <ol> <li>Explain<br/>transportation<br/>problems</li> <li>Providing<br/>alternative<br/>solutions to<br/>transportation<br/>problems</li> </ol> | Criteria:<br>Participation by<br>observing student<br>activities (weight 2)<br>Task: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Participatory<br>Activities                  | cooperative<br>learning<br>2 X 50 | Material: city<br>transportation<br>problems<br>References:<br>Adisasmita,<br>R.,<br>Adisasmita,<br>SA 2011.<br>Land<br>transportation<br>management,<br>overcoming<br>traffic<br>congestion in<br>big cities<br>(Jakarta).<br>Science<br>House.<br>Material: city<br>transportation<br>system<br>References:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung.<br>Material:<br>solutions to<br>transportation<br>problems<br>References:<br>Taaffe, E,<br>Howard LG,<br>Morton,<br>EO1996.<br>Geography of<br>transportation<br>2ed. Printed in<br>the United<br>States of<br>America. | 5%  |
|---|--|---|--|-----------------------------------|---|-----|
| 6 | Able to calculate<br>vehicle equivalent<br>and road capacity                         | 1.Calculating<br>vehicle<br>equivalence<br>2.Calculate<br>vehicle<br>capacity   | Criteria:<br>Participation:<br>carried out by<br>observing student<br>activities (weight 2)<br>Tasks: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Participatory<br>Activities | cooperative<br>learning<br>2 X 50 | Material:<br>vehicle<br>capacity and<br>equivalents<br>Reference:<br>Adisasmita,<br>SA 2011.<br>Transportation<br>development<br>planning.<br>Science<br>House.   | 10% |
| 7 | Able to calculate<br>vehicle equivalent<br>and road capacity                         | 1.Calculating<br>vehicle<br>equivalence<br>2.Calculate<br>vehicle<br>capacity   | Criteria:<br>Participation:<br>carried out by<br>observing student<br>activities (weight 2)<br>Tasks: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Portfolio<br>Assessment     | cooperative<br>learning<br>2 X 50 | Material: road<br>capacity<br>References:<br>Adisasmita,<br>R.,<br>Adisasmita,<br>SA 2011.<br>Land<br>transportation<br>management,<br>overcoming<br>traffic<br>congestion in<br>big cities<br>(Jakarta).<br>Science<br>House.  | 10% |
| 8 | UTS  | UTS   | Criteria:<br>5%<br>Form of<br>Assessment :<br>Test   | UTS<br>2 X 50                     | Material:<br>transportation<br>Reader:<br>Gunardo.<br>2014.<br>Transportation<br>Geography.<br>Wave.  | 4%  |

| 9  | Able to carry out<br>traffic surveys | <ol> <li>Able to<br/>explain the<br/>benefits of<br/>traffic surveys</li> <li>Able to<br/>explain types<br/>of traffic<br/>surveys</li> <li>Able to<br/>explain the<br/>preparation of<br/>a traffic<br/>survey<br/>(determining<br/>surveyor<br/>points, filling<br/>out survey<br/>forms,<br/>surveys<br/>(determining<br/>surveyor<br/>points, filling<br/>out survey<br/>forms,<br/>surveyor<br/>points, survey<br/>forms,<br/>surveyor<br/>points, survey<br/>forms,<br/>surveyor<br/>points, urvey<br/>forms,<br/>surveyor<br/>points, filling<br/>out survey<br/>forms,<br/>surveying<br/>traffic<br/>environmental<br/>impacts)</li> </ol> | Criteria:<br>Participation:<br>carried out by<br>observing student<br>activities (weight 2)<br>Tasks: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Participatory<br>Activities, Project<br>Results Assessment<br>/ Product<br>Assessment | Project Base<br>Learning<br>2 X 50 | Material:<br>traffic survey<br>Bibliography:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung. | 5%  |
|----|--------------------------------------|--|--|------------------------------------|--|-----|
| 10 | Able to carry out<br>traffic surveys | <ol> <li>Able to<br/>explain the<br/>benefits of<br/>traffic surveys</li> <li>Able to<br/>explain types<br/>of traffic<br/>surveys</li> <li>Able to<br/>explain the<br/>preparation of<br/>a traffic<br/>survey<br/>(determining<br/>surveyor<br/>points, filling<br/>out surveys<br/>(determining<br/>surveyor<br/>points, filling<br/>out surveys<br/>(determining<br/>surveyor<br/>points, filling<br/>out survey<br/>forms,<br/>surveying<br/>traffic<br/>environmental<br/>impacts)</li> </ol>  | Criteria:<br>Participation:<br>carried out by<br>observing student<br>activities (weight 2)<br>Tasks: carried out<br>on each indicator<br>(weight 3)<br>Form of<br>Assessment :<br>Participatory<br>Activities, Project<br>Results Assessment<br>/ Product<br>Assessment | Project Base<br>Learning<br>2 X 50 | Material:<br>traffic survey<br>Bibliography:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung. | 5%  |
| 11 | Able to carry out<br>traffic surveys | Able to carry out<br>traffic surveys   | Criteria:<br>performance rubric<br>Form of<br>Assessment :<br>Participatory<br>Activities  | Project Base<br>Learning<br>2 X 50 | Material:<br>traffic survey<br>Bibliography:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung. | 10% |
| 12 | Able to carry out<br>traffic surveys | Able to analyze<br>data from traffic<br>surveys  | Criteria:<br>performance rubric<br>Form of<br>Assessment :<br>Project Results<br>Assessment /<br>Product<br>Assessment,<br>Portfolio<br>Assessment   | discussion<br>2 X 50               | Material:<br>traffic survey<br>Bibliography:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung. | 10% |

| 13 | Able to carry out<br>traffic surveys                                    | Able to analyze<br>data from traffic<br>surveys                | Criteria:<br>Completed > 65<br>Forms of<br>Assessment :<br>Portfolio<br>Assessment,<br>Practical<br>Assessment,<br>Practical /<br>Performance | Practice<br>2 X 50   | Material:<br>traffic survey<br>Bibliography:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung.   | 5% |
|----|---|--|---|----------------------|--|----|
| 14 | Able to analyze<br>survey results<br>with a<br>geographical<br>approach | Analyzing survey<br>results with a<br>geographical<br>approach | Criteria:<br>Completed > 65<br>Form of<br>Assessment :<br>Portfolio<br>Assessment   | discussion<br>2 X 50 | Material:<br>analysis of TC<br>and OD<br>survey data.<br>Reference:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung.<br>Material:<br>geographical<br>analysis<br>Bibliography:<br>Taaffe, E,<br>Howard LG,<br>Morton,<br>EO1996.<br>Geography of<br>transportation<br>Zed. Printed in<br>the United<br>States of<br>America.<br>Material:<br>geographical<br>analysis<br>Reference:<br>Muttini, S.<br>2021.<br>Textbook of<br>Transportation<br>Geography.<br>Unesa Press | 5% |
| 15 | Able to analyze<br>survey results<br>with a<br>geographical<br>approach | Analyzing survey<br>results with a<br>geographical<br>approach | Criteria:<br>Completed > 65<br>Form of<br>Assessment :<br>Portfolio<br>Assessment   | discussion<br>2 X 50 | Material:<br>analysis of TC<br>and OD<br>survey data.<br>Reference:<br>Miro, Fidel.<br>1997. City<br>transportation<br>systems.<br>Transito<br>Bandung.<br>Material:<br>geographical<br>analysis<br>Bibliography:<br>Taaffe, E,<br>Howard LG,<br>Morton,<br>EO1996.<br>Geography of<br>transportation<br>2ed. Printed in<br>the United<br>States of<br>America.<br>Material:<br>geographical<br>analysis<br>Reference:<br>Murtini, S.<br>2021.<br>Textbook of<br>Transportation<br>Geography.<br>Unesa Press | 4% |

| 16 | UAS | UAS | Criteria:<br>Completed > 65<br>Form of<br>Assessment :<br>Test | test<br>2 x 50 | Material:<br>transportation<br>system<br>References:<br>Miro, Fidel.<br>2012.<br>Introduction to<br>transportation<br>systems.<br>Erlangga. | 6% |
|----|-----|-----|--|----------------|---|----|
|    |     |     |  |                | Erlangga.   |    |

## Evaluation Percentage Recap: Case Study

| No | Evaluation                                      | Percentage |
|----|---|------------|
| 1. | Participatory Activities                        | 50%        |
| 2. | Project Results Assessment / Product Assessment | 10%        |
| 3. | Portfolio Assessment                            | 25.67%     |
| 4. | Practical Assessment                            | 1.67%      |
| 5. | Practice / Performance                          | 1.67%      |
| 6. | Test  | 10%        |
|    |   | 99.01%     |

## 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.
- 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.
- 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.