

Course	Course Name	Applied Transportation Planning
	Course Code	DK184406
	Credit	4
	Semester	IV

Description of Course	
<p>Applied Transportation Planning course is conducted in the 4th semester. The participants of this course are the students who have passed transportation planning course. This course will study the principles of transportation planning, transportation planning process, transportation survey, transportation analysis and modelling, as well as the formulation of transportation planning scenario and directions</p>	
Learning Outcomes	
Knowledge	<ol style="list-style-type: none"> 1. Mastering the theoretical concept of urban and regional planning in the aspects of urban studies, regional studies, spatial science, data science & computer application, socio-political, environmental management, built environment design, infrastructure and transportation system, coastal studies, management, economics. 2. Mastering the techniques and processes of urban and regional planning in qualitative, quantitative, spatial modeling (geographic information systems) and presentation techniques. 3. Mastering the methods of spatial/aspatial planning in decision-making.
Specific Skill	<ol style="list-style-type: none"> 1. Able to compile the planning concept and direction of the plan through the study of strategic issues in the context of urban, regional, and coastal planning problems with understanding through observation and utilization of the data of physical/spatial, social, economic and environmental. 2. Able to utilize ICT in the management of data to produce information that is easily understood by the public and the decision makers.

	<ol style="list-style-type: none"> 3. Able to describe the spatial characteristics of urban, regional and coastal area through the linkage analyze of spatial and aspatial aspects so that provide the information as the basis for drawing up planning model 4. Able to compile an alternative spatial model through a qualitative and quantitative approach in the form of scenarios setting the pattern of space and structure of urban, regional, and coastal area as well as propose the appropriate solutions 5. Able to produce a creative, innovative, sustainability spatial plan which the results are well researched against the rules and theory of planning and mengkomunikasikannya are visual, verbal and written, which can be accountable academically.
General Skill	<ol style="list-style-type: none"> 1. Able to apply logical, critical, systematic, and innovative thinking in the context of development or implementation of science and technology by considering and applying the suitable value of humanities in accordance with their expertise 2. Able to take an appropriate decision in the context of problems solving in the field of their expertise based on the results of the information and data analyze
Course Learning Outcomes	
Knowledge	Students able to apply transportation planning principles on understanding urban/regional/coastal transportation issues
Spesific Skill	<ol style="list-style-type: none"> 1. Students able to conduct proper transportation survey correctly and relevant with the purposes and the necessity of the plan also using proper surey techniques 2. Students able to apply transportation planning principles on understanding urban/regional/coastal transportation issues 3. Students able to formulate transportation scenario 4. Students able ti formulate planning directions and the steps of transportation planning

General Skill	<ol style="list-style-type: none"> 1. Students able to communicate the concepts of transportation planning visually, verbally, and written in ICT basis 2. Teamwork
Main Subject Learning Outcomes	
<ol style="list-style-type: none"> 1. Students able to identify transportation issues along their the scale, output, and field 2. Students able to formulate strategic issues of transportation in study case 3. Students able to apply transportation planning principles on dsigning network system or transportation system 4. Students able to create or design a network system 5. Students able to formulate transportation planning survey design 6. Students able to conduct transportation survey 7. Students able to model trip generation 8. Students able to model trip distribution 9. Students able to analyze modal choice and trip assignment 10. Students able to formulate the scenario and step of planning 11. Students able to communicate verbally, visually, and written on ICT basis regarding the formulation of transportation planning based on study cae 12. Able to deliver logical, critical, and innovative manner of thinking in the context of development or science implementation, also able to deliver humanities which are relevant to their expertise 13. Able to make quick and right decision on tackling the issues of their expertise, according to data and its analysis 	
Main Subject	
<ol style="list-style-type: none"> 1. Transportation Planning introduction 2. Transportation Planning processes 3. Transportation survey 4. Transportation modelling 5. Transportation planning scenarios 6. Study case 	
Prerequisite	
Transportation System	
References	
<ol style="list-style-type: none"> 1. Ferguson, Erik 2000. Travel Demand Management and Public Policy. Ashgate. 2. Ferguson, Erik 2000. <i>Travel Demand Management and Public Policy</i>. 	

Ashgate.

3. Ewing, Reid. 1997. *Transportation and Land Use Innovations*. APA.
4. Tamin, Ofyar Z 1997. *Perencanaan dan Pemodelan Transportasi*. Penerbit ITB. Bandung.
5. Regional Cities Urban Transport. *Traffic Management*. DKI Jakarta Training.
6. Meyer, Michael D and Eric J. Miller 2001. *Urban Transportation Planning*. Second Edition. Mc Graw-Hill. Singapore.