

CP234314 - Transportation System

Module Name	Transportation System
Module level, if applicable	Intermediate BoURP
Code, if applicable	CP234314
Subtitle, if applicable	-
Course, if applicable	Transportation System
Semester(s) in which the module is taught	3 rd Semester
Person responsible for the module	Siti Nurlaela, ST., M.Com., Ph.D.
Lecturer	Siti Nurlaela, ST., M.Com., Ph.D.
Language	Indonesian, English
Relation to curriculum	Compulsory courses for undergraduate program in Urban and Regional Planning
Type of teaching*, contact hours*	M1: Group discussion M3: Case study M5: Cooperative learning Lecture (Face to face lecture): 2.5 hours x 14 weeks 35 hours per semester
Workload	Regular (3 SKS) Class: 2.5 hours x 14 weeks = 35 hours Structured activities: 4 hours x 14 weeks = 56 hours Independent Study: 3 hours x 14 weeks = 42 hours Exam: 1.5 hours x 4 time = 6 hours Total = 133 hours
Credit points	3 SKS ~ 4.8 ECTS
Requirements according to the examination regulations	Registered in this course Minimum 80% attendance in this course
Recommended prerequisites	-
Module objectives/intended learning outcomes	General knowledge: <ol style="list-style-type: none"> 1. Able to understand the theoretical concepts of urban and regional planning in the aspects of urban studies, regional studies, coastal studies, spatial science, planning science, data science, built environment design, infrastructure and transportation systems, environmental management, social systems, economics, management studies, and research /project 2. Able to understand the techniques and processes of urban and regional planning qualitatively, quantitatively, and spatial modeling (geographical information systems) and presentation techniques 3. Able to analyze the potentials and problems of spatial and non-spatial contexts of cities, regions, and coasts through analysis of the

	<p>interrelationships of aspatial and spatial aspects</p> <p>Specific knowledge:</p> <ol style="list-style-type: none"> 1. Students are able to apply the concept of the transportation system in understanding urban/regional/coastal transportation problems 2. Students are able to explain the role of the transportation system with a LUTI perspective in forming spatial structures and their relation to spatial patterns 3. Students are able to apply the LUTI framework in identifying transportation system problems 4. Students are able to evaluate the performance of the transportation system through measuring the accessibility and mobility of the transportation system 5. Students are able to produce solutions to transportation problems based on a transportation system approach within the LUTI framework 6. Students are able to evaluate TOD as a solution for a LUTI-based transportation system 															
Content	<ol style="list-style-type: none"> 1. Concepts/theories, definitions and basic principles in transportation systems 2. Transportation system components 3. LUTI framework and examples of its application 4. TOD concept as one of the LUTI applications in solving transportation problems 5. Accessibility concepts and measurement methods 6. Mobility concepts and measurement methods 7. Survey aspects in transportation research 															
Study and examination requirements and forms of examination	<p>4 assessments:</p> <table border="1" data-bbox="708 1485 1273 1825"> <thead> <tr> <th>Evaluation</th> <th>Method</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Weekly presentation and discussion</td> <td>25%</td> </tr> <tr> <td>2</td> <td>Final group task in form of presentation</td> <td>25%</td> </tr> <tr> <td>3</td> <td>Final group task in form of paper</td> <td>25%</td> </tr> <tr> <td>4</td> <td>Quiz</td> <td>25%</td> </tr> </tbody> </table> <ol style="list-style-type: none"> 1. Weekly presentation and discussion – Weekly, from week 2 up to week 9 2. Final group task in form of presentation – week 13 3. Final group task in form of of paper – week 16 	Evaluation	Method	Weight	1	Weekly presentation and discussion	25%	2	Final group task in form of presentation	25%	3	Final group task in form of paper	25%	4	Quiz	25%
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	4. Quiz – week 14
Media employed	Classical teaching tools with white board and power point presentation, audiovisual, zoom meeting, ITS online classroom.
Reading list	<p>Main reference:</p> <ol style="list-style-type: none"> 1. Barthomolew, Keith. (2006). Land use-transportation scenario planning: Promise and Reality. Springer Science+Business Media B.V. 2006. 2. Miro, Fidel (1997), Sistem Transportasi Kota, Tarsito, Bandung. 3. Curtis, Carey., Renne, John L., & Bertolini, Luca (2009), Transit Oriented Development: Making it Happen, Ashgate Publishing Company, Great Britain. 4. DVRPC. (2014). The Future of Scenario Planning. Philadelphia: dvrpc.org. 5. Meyer, Michael D. (2016). TRANSPORTATION PLANNING HANDBOOK FOURTH EDITION. Hoboken, New Jersey. John Wiley & Sons, Inc. <p>Supporting reference:</p> <ol style="list-style-type: none"> 1. Littman, T. (2013). Planning Principles and Practices. Victoria: vtpi.org. 2. Littman, T. (2017). TDM Planning and Implementation. Victoria: vtpi.org. 3. Stopher, Peter & Meyburg, Arnim H. (1975), Urban Transportation Modeling and Planning, Lexington Books, Canada. 4. Alamsyah, Alik Ansyori (2008), Rekayasa Lalu Lintas, Edisi Revisi, UPT Penerbitan UNMUH, Malang. 5. Direktorat Jendral Bina Marga. (2014). Pedoman Kapasitas Jalan Indonesia. Jakarta Selatan. Direktorat Jendral Bina Marga.