CP234317 - Land Use Planning

Module Name	Land Use Planning
Module level, if applicable	Intermediate BoURP
Code, if applicable	CP234317
Subtitle, if applicable	-
Course, if applicable	Land Use Planning
Semester(s) in which the module is taught	3rd Semester
Person responsible for the module	Putu Gde Ariastita, ST., MT.
Lecturer	Putu Gde Ariastita, ST., MT.
Language	Indonesian, English
Relation to curriculum	Compulsory Courses for undergraduate program in Urban and Regional Planning
Type of teaching, contact hours	M1: Group discussion 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	***Specific knowledge:*** 1. Able to understand the theoretical concepts of regional and urban planning in 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 / projects 2. Able to understand the techniques and processes of regional and urban planning qualitatively, quantitatively, and spatial modeling (geographic information systems) and presentation techniques 3. Able to apply plan formulation techniques and compile alternative spatial / spatial models through qualitative and quantitative approaches in the form of scenarios for setting spatial patterns and spatial structures of cities, regions, coasts

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<tr><td></td><td>4. Able to analyze the potential and problems of spatial and non-spatial contexts of cities, regions, and coasts through analysis of the relationship between spatial and spatial aspects

Specific skills:
1. Students are able to understand the concept of land use
2. Students are able to understand the procedures and regulations for urban and regional land use
3. Students are able to analyze the capability and land usage</td></tr>
<tr><td>Content</td><td>1. Land Use Concepts in Urban and Regional Areas
2. Characteristics and Economic Valuation of Land
3. Land Value Assessment and Classification for Land Use
4. Approaches to Land Use
5. Techniques for Analyzing Land Capability and Carrying Capacity
6. Techniques for Analyzing Land Suitability
7. Fundamental Principles of Land Use Modeling Analysis
8. Land Use Analysis Techniques for Personal Interest-Driven Development: Land Acquisition and Preparation
9. Procedures and Regulations in Urban and Regional Land Use Management
10. Case Studies and Solutions in Land Use Planning</td></tr>
<tr><td>Study and examination requirements and forms of examination</td><td>4 assessments:

<table><tr><th>Evaluation</th><th>Method</th><th>Weight</th></tr><tr><td>1</td><td>Quiz</td><td>20%</td></tr><tr><td>2</td><td>Review of land use cases</td><td>20%</td></tr><tr><td>3</td><td>Land-use planning case study</td><td>40%</td></tr><tr><td>4</td><td>Case study presentation</td><td>20%</td></tr></table>
1. Quiz – week 5
2. Review of land use cases – week 12
3. Land-use planning case study – week 15
4. Case study presentation – week 15</td></tr>
<tr><td>Media employed</td><td>Classical teaching tools with white board and power point presentation, audiovisual, zoom meeting, ITS online classroom.</td></tr>
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Reading list	Main reference:

1. Agarwal, C., Green, G.M., Grove, J.M., Evans, T.P., Schweik, C.M. (2002). A Review and Assessment of Land-Use Change Models. Dynamics of Space, Time, and Human Choice. Indiana University.
2. Batty, M. (2013). The new science of cities. MIT Press.
3. Berke, P.R., & Godshalk, D.R. (2006). Urban Land Use Planning: Fifth Edition. University of Illinois Press, Urbana.
4. Chapin, F.S., & Kaiser, E.J. (1995). Urban Land Use Planning. University of Illinois Press, Urbana.
5. Epstein, H. (2017). Land-Use Planning. Irwin Law inc.
6. Etingoff, K. (2016). Urban Land Use Community-Based Planning. Apple Academic Press.
7. Fu, J., Bu, Z., Jiang, D., Lin, G., & Li, X. (2022). Sustainable Land Use Diagnosis Based on the Perspective of Production-Living-Ecological Spaces in China. Land Use Policy, vol.122.
8. Gerber, J.D., Hartmann, T., & Hengstermann, A. (2018). Instruments of Land Policy: Dealing with Scarcity of Land 1st Edition. Routledge.
9. Guzman, L.A., Escobar,F., Peña, J., & Cordona, R. (2020). A Cellular Automata-Based Land Use Model as an Integrated Spatial Decision Support System for Urban Planning in Developing Cities: The Case of the Bogotá Region. Land Use Policy, vol.92.
10. Hall, P., & Tewdrr-Jones, M. (2020). Urban and Regional Planning 6th Edition. Routledge.
11. Haynes, K.E., Kulkami, R., Sahay, H., & Stough, R.R. (2021). Limits on City Size and Related Topics. Land Use Policy, vol. 111.
12. Jayadinata, J.T. (1999). Tata Guna Tanah Dalam Perencanaan Pedesaan, Perkotaan dan Wilayah. ITB.
13. Levy, J.M. (1997). The Tools of Land-Use Planning, in Contemporary Urban Planning. Prentice Hall, USA.
14. Maleki, J., Masoumi, Z., Hakimpour, F., Coello, C.A. (2020). A Spatial Land-Use Planning Support System Based on Game Theory. Land Use Policy, vol. 99.
15. Metternicht, G. (2018). Land Use and Spatial Planning: Enabling Sustainable Management of Land Resources. Springer Link.

	16. Pacione, M. (2013). Urban geography: A global perspective. Routlegde. 17. Randolph, J. (2003). Environmental Land Use Planning and Management. Island Press. 18. Rodas, J.M.D., Gomez, J.I.A., & Loures, L. (2018). Land Valuation Sustainable Model of Urban Planning Development: A Case Study in Badajoz, Spain. Sustainability. 19. Silberstein, M.A., & Maser, C. (2014). Land-Use Planning for Sustainable Development 2nd Edition. CRC Press. 20. Zhang, Z., & Li, J. (2022). Spatial Suitability and Multi-Scenarios for Land Use: Simulation and Policy Insights from the Production-Living-Ecological Perspective. Land Use Policy, vol.119. **Supporting reference:** 1. Regulations and Norms, Standards, Guidelines, and Manuals related to land use.