

CP234528 - Sustainable Development

Module Name	Sustainable Development
Module level, if applicable	Intermediate BoURP
Code, if applicable	CP234528
Subtitle, if applicable	-
Course, if applicable	Sustainable Development
Semester(s) in which the module is taught	5 th Semester
Person responsible for the module	Rulli Pratiwi Setiawan, S.T., M.Sc., Ph.D.
Lecturer	Rulli Pratiwi Setiawan, S.T., M.Sc., 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 M4: Collaborative learning M7: Problem-based 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	-

<p>Module objectives/intended learning outcomes</p>	<p>General knowledge:</p> <ol style="list-style-type: none"> 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 spatial and non-spatial planning methods in decision making in the field of regional and urban planning. 3. Able to understand the techniques and processes of regional and urban planning qualitatively, quantitatively, and spatial modelling (geographic information systems) and presentation techniques. 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 non-spatial aspects. <p>Specific skills:</p> <ol style="list-style-type: none"> 1. Mastering the principles and philosophy of planning and being able to articulate in understanding problems in human relations that form the pillars of sustainable development (socially, economically, and environmentally). 2. Applying aspects and principles in understanding sustainable development and its implications in planning documents. 3. Able to measure the sustainability of the city. 4. Able to collect, process appropriate social, economic, and environmental data in the city in accordance with strategic planning approaches and social conditions and utilize ICT aspects in its implementation. 5. Able to analyze and integrate sustainability analyses in planning documents 															
<p>Content</p>	<ol style="list-style-type: none"> 1. Principles and Urgency of Sustainable Development. 2. Sustainable Development Issues. 3. Methods of measuring sustainable development in an urban context. 4. Examples of the concept of sustainable cities and their challenges. 5. Sustainable development in the context of cities and regions. 6. Concepts and applications of sustainable development in planning documents. 															
<p>Study and examination requirements and forms of examination</p>	<p>4 assessments:</p> <table border="1" data-bbox="552 1659 1118 1989"> <thead> <tr> <th>Evaluation</th> <th>Method</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Weekly Presentation</td> <td>20%</td> </tr> <tr> <td>2</td> <td>Midterm Exam</td> <td>30%</td> </tr> <tr> <td>3</td> <td>Final Semester Exam</td> <td>30%</td> </tr> <tr> <td>4</td> <td>Final Report and Presentation</td> <td>20%</td> </tr> </tbody> </table>	Evaluation	Method	Weight	1	Weekly Presentation	20%	2	Midterm Exam	30%	3	Final Semester Exam	30%	4	Final Report and Presentation	20%
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	<ol style="list-style-type: none"> 1. <i>Evaluation 1 - Week 3-12</i> 2. <i>Evaluation 2 - Week 8</i> 3. <i>Evaluation 3 - Week 14</i> 4. <i>Evaluation 4 - Week 15-16</i>
Media employed	Classical teaching tools with white board and power point presentation, audiovisual, zoom meeting, ITS online classroom, Microsoft Word, Excel.
Reading list	<p>Main References:</p> <ol style="list-style-type: none"> 1. Meadows, Donella H; Meadows, Dennis L; Randers, Jørgen; Behrens III, William W. (1972). <i>The Limits to Growth</i>. Universe Books. New York. 2. Muschett, Douglas. et al (editors). (1997). <i>Principles of Sustainable Development</i>. St. Lucie Press. Florida. 3. Jenks, Mike & Rod Burgess (editors). (2004). <i>Compact Cities: Sustainable Urban Forms for Developing Countries</i>. Taylor & Francis Group. New York. 4. Roosa, Stephen A. (2007). <i>Sustainable Development Handbook</i>. The Fairmont Press. Georgia. 5. United Nations. (2007). <i>Indicators of Sustainable Development: Guidelines and Methodologies</i>. 3rd Edition. United Nations. New York. 6. Jenks, Mike & Colin Jones. (2010). <i>Dimensions of the Sustainable City</i>. Springer. London. 7. Wong, Tai-Chee and Belinda Yuen (editors). (2011). <i>Eco-city Planning: Policies, Practice and Design</i>. Springer. London. <p>Supporting References:</p> <ol style="list-style-type: none"> 1. Haughton, Graham and Colin Hunter. (2003). <i>Sustainable Cities: Regional Policy & Development Series</i>. Routledge. London. 2. Sorensen, Andre. et al (editors). (2004). <i>Towards Sustainable Cities: East Asian, North American, and European Perspectives on Managing Urban Regions</i>. Ashgate. Hampshire. 3. Mega, Voula. (2005). <i>Sustainable Development, Energy and the City: A Civilisation of Concepts and Actions</i>. Springer. USA.