MODUL
SPATIAL PLANNING AND ENVIRONMENT

MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATE STUDIES
DIPONEGORO UNIVERSITY

A Modul Descriptions :

Modul design	Spatial Planning and Environment
Modul level, if applicable	
Code, if applicable	P- CIL-8-207
Subtitles, if applicable	
Courses, if applicable	
Semester(s) in which the Modul is taught	2nd Semester
Person responsible for the Modul	Prof. Dr. Ir. Nany Yuliastuti, MSP
Lecturer	1. Prof. Dr. sc. agr. Iwan Rudiarto, S.T., M.Sc. 2. Dr. Ir. Joesron Alie Syahbana, M.Sc
Language	*Indonesian and English*
Relations to curriculum	
Type of teaching, contact hours	*Studying:1 x 120 minutes x 16 meetings = 32 hours/week* *Q&A:1x 20 minutes 16 meetings = 5.3 hours/week* *Discussion:1x 20 minutes 16 meetings = 5.3 hours/week* *Presentation:1x 20 minutes 16 meetings = 5.3 hours/week* *Individual assignments: 36 minutes/day = 3 hours/week* *Total work for 1 semester = 100 hours = 4 ECTS*
Workload	*(Estimated) workload, divided into contact hours (lecture, exercise, laboratory session, etc.) and private study, including examination preparation, specified in hours,[1] and in total.*
Credit points	*2 credits / 4 ECTS*
Requirements according to the examination regulations	*Minimum attendance of lectures 75%*
Recommended prerequisites	*eg existing competences in…*

Modul objectives/intended learning outcomes	Students can explain concepts and approaches to spatial planning for regional and urban development and apply them in the field of regional and city development in particular and environmental planning in general.
Content	This course teaches Spatial Planning as one of the approaches used in the field of urban and regional planning (Urban and Regional Planning). The things studied in this course include basic concepts approaches, urban and regional development strategies, challenges and problems, associated with environmental planning. By following this course, students can apply regional and city development strategies.
Study and examination requirements and forms of examination	• *Open book and close book* • *Multiple choice, case study, interview, practice*
Media employed	*Powerpoint, youtube, website*
Reading list	1. Bourne, Larry Stuart & James William Simmonds (ed). 1978. System of Cities : Readings on Structure, Growth and Policy. New York : Oxford University Press. 2. Eisher, Simon; Arthur Gallion & Stanley Eisher. 1992. The Urban Pattern : City Planning and Design. 6 edition. New York : Van Nostrand Reinhold. 3. Steiner, Frederick. R. 1991. The Living Landscape : An Ecological Approach to Landscape Planning. New York : Mc Graw-Hill Inc. 4. UN HABITAT, Urban Planning for City Leader. 5. Budihardjo, Eko & Djoko Sujarto. 1999. Kota berkelanjutan. Bandung : Penerbit alumni. 6. Yeates, Maurice & Barry J Gams. 1980. The North American City. 3 edition. New York : Harper & Row. 7. Yunus, Hadi Sabari. 2000. Struktur Tata Ruang Kota. Yogyakarta : Pustaka Pelajar 8. Leitmann, Yosef. 1999. Sustaining Cities. McGraw Hilll. 9. Robert, Karl-Henrik. 2000. Tools and concepts for Sustainable development, how do they relate to a general framework for sustainable development, and to each other. Journal of Cleaner Production. Elsevier Science Ltd. 10. Satterthwaite, David. 1997. Sustainable Cities or Cities that Contribute to Sustainable Development Urban Studies Vol 34, No.10 pp. 1667-1691.

	11. Senior, ML, CJ Webster dan NE Blank. 2006. Residential Relocation and Sustainable Urban Form: 12. Statistical Analyses of Owner-occupiers'Preferrences. International Planning Studies. Vol.11 No.1. pp. 41-57. Taylor & Francis Ltd.

SEMESTER STUDY PLAN

	Study program: Master of Environmental Science			**Faculty: School of Postgraduated Studies**				
Subject:	**Spatial and Environmental Planning**	**Code:** **P-CIL-8-207**		**Credit:2** **(4 ECTS)**		**Smt:2**		
Supporting lecturer:	1. **Prof. Dr. Ir. Nany Yuliastuti, MSP** 2. **Dr.sc.agr. Iwan Rudiarto, ST, M.Sc.** 3. **Dr. Ir. Joesron Alie Syahbana, M.Sc**							
Learning Outcomes **Subject:**	Students are able to explain concepts and approaches to spatial planning for regional and urban development and apply them in the field of regional and city development in particular and environmental planning in general.							
Short Description of Courses:	This course teaches Spatial Planning as one of the approaches used in the field of urban and regional planning (Urban and Regional Planning). The things studied in this course include basic concepts, approaches, urban and regional development strategies, challenges and problems, associated with environmental planning. By following this course, students can apply regional and city development strategies							

1	2	3	4	5	6	7	
Week	**Final Ability of each learning stage**	**Study Materials/ Subjects**	**Learning methods**	**Workload**	**Student Learning Experience**	**Evaluation**	
						Criteria & Indicators	**Weight (%)**

1	Understand the material from the Introduction to Spatial and Environmental Planning lecture	Introductory PWK program and lecture materials	- Lecture - Discussion	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes* *, Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	Lecture - Discussion	Students' ability to understand	5
2	Understanding the phenomena, forms, and conditions of the region and the city	- Phenomena, forms and conditions of regions and cities - History and development of regions and cities	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes* *, Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5
3	Understand the normative foundations and regulations of urban and territorial planning and	- Normative foundations and regulations for urban and territorial planning	-Lecture -Self-Directional Learning	216minutes (0.25 ECTS) *, Lecture = 1x 120*	-Lecture -Self-Directional Learning	Students' ability to understand	10

	respond with active participation in class discussions		-Small Group Discussion -Question and answer	*minutes* *,Q&A = 1 x 20 minutes* *,Discussion = 1 x 20 minutes* *,Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Small Group Discussion -Question and answer		
4	Understand the definition of space and its components and respond with active participation in class discussions	-Understanding and definition of space -Component provider and user (shaper) of space -Activity system and its components - Space utilization activities	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *,Lecture = 1x 120 minutes* *,Q&A = 1 x 20 minutes* *,Discussion = 1 x 20 minutes* *,Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Small duty products -Student activity in discussion	10
5	Understand and analyze urban development problems that exist in a city and respond with active participation in class discussions	-Definition and understanding of regional and city problems -Types of regional and city development problems	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *,Lecture = 1x 120 minutes* *,Q&A = 1 x 20 minutes* *,Discussion = 1*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5

		-Implications that may arise due to the problem		*x 20 minutes ,Presentation = 1 x 20 minutes Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*			
6	Understand the process and components of Spatial and Urban Planning and respond with active participation in class discussions	- Definition of the essence of planning the urban and regional planning process - Components and framework of regional and urban planning activities	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes ,Q&A = 1 x 20 minutes ,Discussion = 1 x 20 minutes ,Presentation = 1 x 20 minutes Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Small duty products -Student activity in discussion	10
7	Understand the concepts and applications of Spatial and urban planning and respond with active participation in class discussions	-Justification of the need for spatial planning - Definition and principles of spatial planning -History and development of spatial planning science and products	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *,Lecture = 1x 120 minutes ,Q&A = 1 x 20 minutes ,Discussion = 1 x 20 minutes ,Presentation = 1 x 20 minutes*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5

				Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)			
8.	**Mid Term Examination (UTS)**	**Meeting Material 1-7**	**Written test**	**216 minutes of processing time or the equivalent of 0.25 ECTS**	**Students working on UTS questions**	**Completeness and correctness of explanation and accuracy of understanding**	**5**
9	Understand the position of PTL in science	-The relationship and position of PWK science in science -PWK education curriculum at UNDIP	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes* *, Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5
10	Understand urban and regional planning products and respond with active participation in class discussions	-Essence and purpose of PW education -Development and history of PWK education	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5

				, Presentation = 1 x 20 minutes *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*			
11	Understand the urbanization process and respond with active participation in class discussions	-The process of urbanization -Impacts and implications of the urbanization process	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes* *, Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5
12	Understand urban and regional planning products and respond with active participation in class discussions	-Types and levels of urban and regional planning -Region and city planning products	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes* *, Presentation = 1 x 20 minutes*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5

				Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)			
13	Understanding the conditions and challenges of the spatial and urban planning profession	-Area/field of work for the regional and city planner profession -Development of the regional and city planner profession	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes* *, Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5
14	Understanding the conditions of development of the spatial and environmental planning profession	-Development of the regional and city planner profession	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *, Lecture = 1x 120 minutes* *, Q&A = 1 x 20 minutes* *, Discussion = 1 x 20 minutes* *, Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Students' ability to understand -Student activity in discussion	5

15	Understanding the conditions and challenges of the regional and urban planner profession	-Professional organization of planning -Region and city planner jobs -The challenge of the regional and city planner profession	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	216minutes (0.25 ECTS) *Lecture = 1x 120 minutes* *Q&A = 1 x 20 minutes* *Discussion = 1 x 20 minutes* *Presentation = 1 x 20 minutes* *Individual Tasks (Self Work) = 1 x 36 minutes/day (16 weeks)*	-Lecture -Self-Directional Learning -Small Group Discussion -Question and answer	-Small duty products -Student activity in discussion	5
16	**Final Examination (UAS)**	**Meeting Materials 1-15 (resume material)**	**Written test**	**216 minutes of processing time or the equivalent of 0.25 ECTS**	**Students working on UAS questions**	**Completeness and correctness of explanation and timeliness of collection**	**20**

8. Reference List:

1. Bourne, Larry Stuart & James William Simmonds (ed). 1978. System of Cities: Readings on Structure, Growth and Policy. New York: Oxford University Press.
2. Eisher, Simon; Arthur Gallion & Stanley Eisher. 1992. The Urban Pattern : City Planning and Design. 6 editions. New York: Van Nostrand Reinhold.
3. Steiner, Frederick. R. 1991. The Living Landscape: An Ecological Approach to Landscape Planning. New York: McGraw-Hill Inc.
4. UN HABITAT, Urban Planning for City Leaders.
5. Budihardjo, Eko & Djoko Sujarto. 1999. Sustainable city. Bandung: Publisher alumni.
6. Yeates, Maurice & Barry J Gams. 1980. The North American City. 3 editions. New York: Harper & Row.
7. Yunus, Hadi Sabari. 2000. Urban Spatial Structure. Yogyakarta : Student Library
8. Leitmann, Joseph. 1999. Sustaining Cities. McGraw Hill.

9. Robert, Karl Henrik. 2000. Tools and concepts for Sustainable development, how do they relate to a general framework for sustainable development, and to each other. Journal of Cleaner Production. Elsevier Science Ltd.
10. Satterthwaite, David. 1997. Sustainable Cities or Cities that Contribute to Sustainable Development? Urban Studies Vol 34, No.10 pp. 1667-1691.
11. Senior, ML, CJ Webster and NE Blank. 2006. Residential Relocation and Sustainable Urban Form:
12. Statistical Analysis of Owner-occupiers' Preferences. International Planning Studies. Vol.11 No.1. pp. 41-57. Taylor & Francis Ltd.