Course Syllabus

1. Program of StudyBachelor of Science (Environmental Science) **Faculty/Institute/College**Mahidol University International College,

Faculty of Environment and Resource Studies (FERS),

Mahidol University

2. Course Code ICEN 483

Course Title Physical Planning and Environment

3. Number of Credits 4 (4-0-8) (Lecture/Lab/Self-study)

4. Prerequisite (*s*) None

5. Type of Course Elective Course

6. Trimester/Academic Year 1st, 2nd or 3rd trimester/every academic year

7. Course condition 5-20 students

8. Course Description

Concepts of physical planning in urban and regional levels, human settlement and community development process, land use and infrastructure planning based on physical factors, potential of natural resources and appropriate data from scientific method analysis, planning between urban and rural area in terms of ecology, environmental planning in urban and rural area based on integrated survey of their capacities and limitations.

9. Course Objective (s)

After successful completion of this course, students will be able to

- 9.1 describe factor of human settlement and physical plan
- 9.2 explain the concept and process of urban and community planning
- 9.3 analyze and plan of urban and community based on existing resources

10. Course Outline

Date	Topics	Hour			Instructor
		Lecture	Lab	Self-	
				study	
30 Apr;	I. Introduction	12	0	24	Asst. Prof. Dr.
7, 14,	Human settlement				Sittipong
May 2014	 Rural/Urban development 				Dilokwanich
2011	 Regional development 				
	Interaction between urban and				
	rural areas				
	Rural ←→ Rural				

Final Examination on 16 July 2014						
	Total	44	0	88		
	Trend of future situation					
	• Past and present situations				Dilokwanich	
2014	planning process				Sittipong	
2, 9 Jul	III. Review of physical plans and	8	0	16	Asst. Prof. Dr.	
	 Potential surface analysis 					
	Mental mapping					
	 Future search conference 					
	Physical planning process					
	values and carrying capacity					
	evaluation based on function,					
	Resource classification and					
	and regional areas					
2014	Database of community, urban					
11, 18, 25 Jun	urban and regional levels				Dilokwanich	
May; 4,	physical planning in community,				Sittipong	
21, 28	II. Application of concepts in	24	0	48	Asst. Prof. Dr.	
	Meaning and importance of physical planning					
	– Urban ←→ Urban					
	– Rural ←→ Urban					

11. Teaching Method (s)

Lectures and (one) field survey

12. Teaching Media

Power point

13. Measurement and evaluation of student achievement

Student achievement is measured and evaluated by

- 13.1 The ability to describe factor of human settlement and physical plan
- 13.2 The ability to explain the process of community, urban and regional planning
- 13.3 The ability to analyze and plan of community, urban and region based on existing resources

Student's achievement will be graded according to the college and university standard using the symbols: A, B+, B, C+, C, D+, D and F.

Ratio of mark

Lecture attendance and classroom participation	10%
Midterm Examination	45%
Final Examination	45%
Total	100%

14. Course evaluation

- 14.1 Students' achievement as indicated in number 13 above.
- 14.2 Students' satisfaction towards teaching and learning of the course using questionnaires.

15. Reference (s)

- Cullingworth, B. and Caves, R.W., (2003), *Planning in the USA: Policies, Issues and Processes*, London, Routledge.
- Daniels, P. et al, (eds.) (2005), *An Introduction to Human Geography: Issues for the 21*st *Century*, Harlow, Pearson Education Limited.
- Dubois-Taine, G. and Henriot, C., (eds.) (2001), Cities of the Pacific Rim: Diversity & Sustainability, Paris, PUCA.
- ESCAP, (1999), *Strategic Environmental Planning*, New York, Economic and Social Commission for Asia and the Pacific, United Nations.
- Forman, R.T.T., (2008), *Urban Regions: Ecology and Planning beyond the City*, Cambridge, Cambridge University Press.
- HABITAT, (1996), *An Urbanizing World: Global Report on Human Settlements*, 1996, Oxford, Oxford University Press, United Nations Centre for Human Settlements.
- Lein, J.K., (2003) *Integrated Environmental Planning*, Oxford, Blackwell Publishing.
- McDonnell, M.J., Hahs, A.K. and Breuste, J.H., (eds.) (2009), *Ecology of Cities and Towns: A Comparative Approach*, Cambridge, Cambridge University Press.
- Suzuki, H. et al, (2010), *Eco² Cities: Ecological Cities as Economic Cities*, Washington, DC, The World Bank.
- Wheeler, S.M. and Beatley, T., (eds.) (2006), *The Sustainable Urban Development Reader*, New York, Routledge.

16. Instructor

Asst. Prof. Dr. Sittipong Dilokwanich

17. Course Coordinator

Asst. Prof. Dr. Sittipong Dilokwanich