Course Syllabus

Program of Study Bachelor of Science Program in Environment
Faculty/Institute/College Mahidol University International College, Faculty of Science, Faculty of Environment and Resource Studies, Mahidol University

- 2. Course Code ICEN 411 Course Title Climate Change and Its Impact
- 3. Number of Credits 4 (Lecture/Lab) (4-0)
- 4. Prerequisite None
- 5. Type of Course Elective
- 6. Trimester / Academic Year

First / 2005

7. Course Description

Climate and weather pattern, greenhouse gases, causes and effect of greenhouse gases on climate, natural catastrophe. That is related to human behavior and vice versus human activity is a main course to change natural ecosystem.

8. Course Objectives

- 1. To understand climate and weather pattern
- 2. Type and source of greenhouse gases
- 3. Greenhouse gases effect on climate pattern, and socio-economic
- 4. Measurement of climate change
- 5. Convention on global climate change

9. Course Outline

TA7 1	Topic		T ((
Week	Lecture	Hour	Instructor
1	Introductory in Course	4	Assoc.Prof.Dr.Nathsuda
	Introduction to Climate and Weather Pattern		
2	Source and Anthropogenic Greenhouse gas	4	Assoc.Prof.Dr.Nathsuda
	- Energy		
3	Source and Anthropogenic Greenhouse gas	4	Assoc.Prof.Dr.Nathsuda
	(cont.) – Forest		
4	Source and Anthropogenic Greenhouse gas	4	Assoc.Prof.Dr.Nathsuda
	(cont.) – Agriculture		
5	Source and Anthropogenic Greenhouse gas	4	Assoc.Prof.Dr.Nathsuda
	(cont.) – Other Sources		
6	The Impacts of Climate Change	4	Assoc.Prof.Dr.Nathsuda
7	The Impacts of Climate Change (cont.)	4	Assoc.Prof.Dr.Nathsuda
8	Measures for Adapting to Global climate	4	Assoc.Prof.Dr.Nathsuda
	Change		
9	Measures for Adapting to Global climate	4	Assoc.Prof.Dr.Nathsuda
	Change (cont.)		
10	Mechanisms for Implementing Response	4	Assoc.Prof.Dr.Nathsuda
	Strategies		
11	Thailand and Convention Related to Global	4	Assoc.Prof.Dr.Nathsuda
	Climate Change		
	Total	44	

10. Teaching Method

- 1. Lecture
- 2. Discussion
- 3. Self-Study

11. Teaching Media

- 1. Texts and Teaching Materials
- 2. Transparencies
- 3. Power Point Presentation

12. Course Achievement

Assessment made from the set-forward criteria. Student who gets 80% up, will have Grade A.

13. Course Evaluation

- 1. Report 20%
- 2. midterm Examination 40%
- 3. Final Examination 40%

14. References

- 1. Parry M and Carter T. 1998. Climate Impacts and Adaptation Assessment. Earthscan Publication Ltd, London.
- 2. Houghton J. 1997. Global Warming. Cambride University. Press.
- 3. Kemp D. D. 1994. Global Environmental Issues. Routledge. London and New York.
- 4. WMO/UNEP. 1990. Climate Change, The IPCC Response Strategies, International Panel on Climate Change.

15. Instructor

Assoc.Prof. Dr. Nathsuda Pumijumnong

16. Course Coordinator

Assoc.Prof. Dr. Nathsuda Pumijumnong