Course Syllabus

Name of Curriculum 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 361 Course Title Principles of Environmental Impact Assessment
- 3. Number of Credits 4 (Lecture/Lab) (4-0)
- 4. Prerequisite None
- 5. Type of Course Required
- 6. Trimester / Academic Year

Third / 2004

7. Course Description

Knowledge on principle of environmental impact assessment (EIA), definition, history and law related to EIA. Tools for evaluate impact. Principles of EIA on Physical, Biological, human use and quality of life are focused. Study cases.

8. Course Objectives

To learn and understand principles, process, and necessary techniques for environmental impact assessment, mitigation and monitoring. Analysis impact on resources and environment as well as evaluate impact from development projects.

9. Course Outline

Week	Topic	T (
	Lecture/Seminar	Hour	Lab	Hour	Instructor
1	Definition and history of	4			Dr. Suvaluck
	environmental impact assessment,				Satumanatpan
	related law necessary for EIA				
2	Process for EIA, TOR, IEE	4			Dr. Suvaluck
	Components of EIA Reports				Satumanatpan
3	Tools for assess environmental	4			Mr. Sonti
	impact: Checklist, Network,				Kotchawat
	Matrices, Overlays, Mathematical				
	Modeling, Adhoc committee				
4	Environmental Impact Assessment	4			Assist. Aumporn
	for air and noise				Muchimwong
5	Environmental Impact Assessment	4			Dr. Charlie
	for soil and land use				Navanugraha
6	Environmental Impact Assessment	4			Dr. Chumlong
	for water quantity and quality				Arunlertaree
7	Environmental Impact Assessment	4			Dr. Sura
	for biological: terrestrial ecology				Pattanikriat
	forest and wildlife				
8	Environmental Impact Assessment	4			Dr. Suvaluck
	for biological aquatic ecology:				Satumanatpan
	plankton, nekton, benthos and				
	importance coastal habitat				

Week	Topic	Instructor			
	Lecture/Seminar	Hour	Lab	Hour	Instructor
9	Environmental Impact Assessment	4			Assoc. Sukhum
	for human use				Puthong
10	Environmental Impact Assessment	4			Assist. Ladawan
	for quality of life, socio-economic				thongnob
11	Mitigation and Monitoring process	4			Mr. Sonti
	for environmental impact				Kotchawat
	assessment				
	Total	44			

10. Teaching Method

- 1. Lecture
- 2. Practical Excercises
- 3. Discussion
- 4. 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. Participation 10%
- 2. Report 40%
- 3. Examination 50%

14. References

- 1. Canter L.W. 1977. Environmental Impact Assessment. McGraw-Hill, Inc. Printed in the United States of America. 331pp.
- 2. Eccleston, H.C. 2000. Environmental Impact Statements. John Wiley & Sons, Inc. Canada. 346 pp.
- 3. Environmental Impact Evaluation Division. Office of Environmental Policy and Planning. 1998. Environmental Impact Assessment in Thailand. Bangkok. 43 pp.
- 4. Hutacharoen R., L. Thong-Nop and S. Choowaew. 1990. Environment impact assessment in practice. Faculty of Environment and resources Studies, Mahidol University, Nakhon Pathom.
- 5. Lee, N. and C. George (editors). 2000. Environmental Assessment in Developing and Transitional Countries. John Wiley & Sons Ltd, England. 290 pp.
- 6. United Nations. 1988. Environmental Impact Assessment: A Management Tool for Development Projects. Proceedings of the Expert Group Meeting on Environmental Impact Assessment of Development Projects Bangkok, Thailand. 155pp.
- 7. United Nations. 1988. Environmental Impact Assessment: Basic procedures for developing countries. United Nations Environment Programme. Regional Office for Asis and the Pacific. Bangkok, Thailand. 16 pp.

- 8. United Nations. 1989. Environmental Impact Assessment: An Enquiry into Operational Aspects. Proceedings of the Training Workshop on Environmental Impact Assessment in Thailand, Bangkok, Thailand. 119 pp.
- 9. United Nations. 1992. A preliminary Study on Environmental Management of Tourism Development in the ESCAP Region, New York. 68 pp.
- 10. Wathern P. 1995. Environmental Impact Assessment: Theory and Practice. Biddles Ltd, Guildford and King's Lynn, Great Britain. 332 pp.
- 11. Westmman W. E. 1985. Ecology, Impact Assessment, and Environmental Planning. John Wiley & Sons, Inc. Canada. 532 pp.

15. Instructor

Asst.Prof. Dr. Suvaluck Satumanatpan

16. Course Coordinator

Asst.Prof. Dr. Suvaluck Satumanatpan