Course Syllabus

1. 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 466 Course Title Environmental Management Systems

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

Principle of Environmental Management System of ISO14001. Development and setting of environmental policy, environmental management system planning. EMS implementation and operating, EMS checking and correction, Management review, including management audit.

8. Course Objectives

After completing this course, the student is able to

- 1. Creating environmental management system and EMS document to an organization
- 2. Planning the internal environmental auditing for the organization

9. Course Outline

Week	Topic		Instructor
	Lecture	Hour	instructor
1	- History of Environmental Management System	4	Asst.Prof. Sayam
	(ISO14001)		
	- ISO 14001 Standard Series		
	- ISO 14001 Requirement and Implementation		
	- Principle of ISO 14001		
2	Principle of Environmental Awareness	4	Asst.Prof. Sayam
3	Environmental Policy Setting and Environmental	4	Asst.Prof. Sayam
	Aspects		
4	Environmental Aspects Identification and Evaluation	4	Asst.Prof. Sayam
5	Environmental Law and Other Requirements	4	Dr.Kraichart
6	Environmental Objective, Target and Management	4	Asst.Prof. Sayam
	Program		
7	Principle of Pollution Prevention and Waste	4	Asst.Prof. Sayam
	Minimization		
8	- Organization Structure and Responsibility	4	Asst.Prof. Sayam
	- Personal Development on Awareness and		
	Competence		
	- Communication		
9	EMS Documentation, Record and Control	4	Asst.Prof. Sayam
10	Environmental Monitoring and Measurement	4	Asst.Prof. Sayam
11	- Non-conformance, Corrective and Preventive	4	Asst.Prof. Sayam
	Action		
	- Principle of Internal Environmental Auditing		
	Total	44	

10. Teaching Method

- 1. Lecture
- 2. Practical Excercises
- 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 85% up, will have Grade A.

13. Course Evaluation

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

14. References

- 1. Sayam Aroonsrimorakot.(2000). Environmental Management System Standard of ISO 14001. Faculty of Environment and Resource Studies. Mahidol University.
- 2. Sayam Aroonsrimorakot and Sadamsit Sangsayan.(2002). Internal Environmental Management System Auditing Under the Standard of ISO 14001. Faculty of Environment and Resource Studies. Mahidol University.
- 3. Sayam Aroonsrimorakot.(2003). Documentation and Control of Environmental Management System Standard of ISO 14001. Faculty of Environment and Resource Studies. Mahidol University.
- 4. Thailand Industrial Standard Institute. (1996). Environmental Management Systems: Specification with Guidance for Use (TIS/ISO 14001).

15. Instructors

Asst.Prof. Sayam Aroonsrimorakot Dr.Kraichart Tantakanarpa

16. Course Coordinator

Asst.Prof. Sayam Aroonsrimorakot