

## Course Syllabus

1. **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 465 **Course Title** Resource Inventory and  
 Baseline Studies Methods
3. **Number of Credits** 4 **(Lecture/Lab)** (4-0)
4. **Prerequisite (s)** None
5. **Type of Course** Elective
6. **Trimester / Academic Year** Second trimester/ 2005

7. **Course Description**

Appropriate techniques and methodologies for resource inventory, including the survey on geology, soils, hydrology, aquatic and terrestrial ecosystems, such as wetland, plant, wildlife, etc. Integrated approaches and methods.

8. **Course Objective (s)**

1. To identify appropriate techniques and methodologies for resources inventory.
2. To strengthen the technical skill in resource inventory to support for efficiency resource management.

9. **Course Outline**

Week	Topics		Instructor
	Lecture	Hour	
1	Introduction	4	Sura Pattanakiat
2	Integrated Approach and Methods	4	Sura Pattanakiat
3	Techniques and Methods for Geological Inventory	4	Pakorn Suwanit
4	Techniques and Methods for Soils Inventory	4	Charlie Navanukraha
5	Techniques and Methods for Land use Classification	4	Charlie Navanukraha
6	Techniques and Methods for Hydrological Inventory	4	Kampanad Phakdikul
7	Techniques and Methods for Forest Inventory	4	Sura Pattanakiat
8	Techniques and Methods for Wildlife Inventory	4	Sura Pattanakiat
9	Techniques and Methods for Coral Inventory	4	Suwaluk Satumanasphandu
10	Techniques and Methods for Seagrass Inventory	4	Suwaluk Satumanasphandu
11	Techniques and Methods for Fishery Inventory	4	Chumlong Arunlertaree
	<b>Total</b>	<b>44</b>	

10. **Teaching Method (s)**

- Lectures: Face to face and slide presentation.
- Assignments: Each student will be assigned to read and search for a specific topic concerning resource inventory.
- Examination: Written examination

**11. Teaching Media**

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

**12. Measurement and Evaluation of Student Achievement**

Assessment made from the set-forward criteria. Student who gets 85% up, will have Grade A.

**13. Course evaluation**

1. Assignments 30%
2. Final Examination 70%

**14. Reference (s)**

Conant, F., P. Roger, Baumgardner, McKell C., Dasmann R., and Reining P. 1983. Resource Inventory and Baseline Study Methods for Developing Countries. American Association for the Advancement of Science.

**15. Instructor (s)**

Asst.Prof.Dr. Sura Pattanakiat

Asst.Prof.Pakorn Suwanit

Dr.Charlie Navanukraha

Asst.Prof.Dr.Kampanad Phakdikul

Asst.Prof.Dr.Suwaluk Satumanasphandu

Asst.Prof.Dr.Chumlong Arunlertaree

**16. Course Coordinator**

Asst.Prof. Dr. Sura Pattanakiat