

## **KSH 323 Protected Area Management**

<b>Credit</b>	:	3(2-3)
<b>Semester</b>	:	5 (odd)
<b>Course format</b>	:	Classroom lectures, individual assignment, group assignment, and field trips. 150 minutes per week. 14 weeks.
<b>Pre-requisite</b>	:	-
<b>Lecturers</b>	:	Prof. Dr. Sambas Basuni, MS (Course coordinator) Dr. Rinekso Soekmadi, MSc.F. Mr. Nandi Kosmaryandi, MSc.F. Dr. Arzyana Sunkar, MSc.

### **Course Description**

Currently tropical biodiversity is experiencing rapid degradation, especially in developing country such as Indonesia. One of the efforts to preserve biodiversity is by designation of protected areas into various categories. With various threats, protected areas have not been able to guarantee such preservation efforts, due to the weak current management system of protected area. The course will discuss functions of protected areas, categorization system, management perspective within the regional autonomy framework and national development. Students will explore why protected area planning and management is important foundation for sustainable land and resource management. The course will provide opportunity for students to review the theory behind protected area planning and management, study case examples, and develop practical skills through assignments. Students will be exposed to the art, science, traditional knowledge and political realities that factor into the decision making process of establishing and managing protected areas.

### **Course Objectives**

The objective of this course is to provide students with the principles, guidelines and best practices for designing, planning, establishing and managing protected areas as well as evaluation of protected area management effectiveness.

### **Learning Outcomes**

## 1. General learning outcomes

Upon successful completion of this course the students will be able to:

- a. Understand the reasons for protecting natural and cultural landscapes and establishing protected areas
- b. Explain the evolving role, function and categorization of protected area systems in Indonesia
- c. Identify problems related to protected area management
- d. Develop certain protected area management plan
- e. Evaluate the effectiveness of protected area management with simple criteria and indicators.

## 2. Specific learning outcomes

Upon successful completion of this course the students will be able to:

### Structure of Course Delivery

1. Lecture.
2. Individual and group assignments.
3. Course practice. Course practice comprise of tutorial sessions on previous topic given during lecturer and field trip.

### Major References

1. Alexander, M. 1995. Management Planning in relation to Protected Areas. Protected Areas Programme. PARKS (Parks and Information Technology). Vol. 5 No. 1, February 1995: 2-11.
2. Amend, S. and T. Amend (Eds). 1995. National Parks without People ? The South American Experience. IUCN-The World Conservation Union, Gland, Switzerland.
3. Barborak, James R. 1995. Institutional Options for Managing Protected Areas. (in *Expanding Partnerships in Conservation* edited by Jeffrey A. McNeely). Island Press, Washington, D.C. Pp. 30-38.
4. Borrini-Feyerabend, Grazia. 1999. Collaborative Management of Protected Areas (in *Partnerships for Protection: New Strategies for Planning and Management for Protected Areas* edited by Stolton, Sue and Nigel Dudley).. IUCN-The World Conservation Union, Eartscan Publications Ltd, London. Pp: 224-234.

5. Brandon, Katrina Eadie and Michael Wells. 1992. Planning for People and Parks: *Design Dilemmas*. Journal World Development Vol. 20 No. 4. Pergamon Press Ltd., Great Britain. Pp:557-570
6. Bruner, Aaron G., Raymond E. Gullison, Richard E. Rice, and Gustavo A.B. da Fonseca. 2001. Effectiveness of Parks in Protecting Tropical Biodiversity. Science Magazine Vol. 291 No. 5501, Issue of 5 January 2001. The American Association of the Advancement of Science. Pp:125-128; <http://www.sciencemag.org/cgi/content/full/291/5501/125> date of download: 20.02.01
7. Dower, Michael. 1995. Working with People Who Live in Protected Areas in McNeely, Jeffrey A. (Edt.), Expanding Partnerships in Conservation. IUCN-The World Conservation Union, Gland-Switzerland. Pp: 215-222
8. Hess Jr., Karl. 2001. Parks Are for People – But *Which* People? in The Politics and Economics of Park Management, Edited by Terry L. Anderson and Alexander James. Rowman and Littlefield Publisher, Oxford. Pp. 159-181.
9. Hockings, M. and A. Phillips. 1999. How well are we doing? – some thoughts on the effectiveness of protected areas. PARKS – Protected Areas Programme Vol. 9 No. 2 June 1999. IUCN-The World Conservation Union, Gland, Switzerland.
10. IUCN. 1992. Protected Areas and Demographic Change: *Planning for the Future (A Working Report of Workshop 1.6)*. IV<sup>th</sup> World Congress on National Parks and Protected Areas held in Caracas, Venezuela 10-21 February 1992, IUCN The World Conservation Union, Gland, Switzerland.
11. IUCN The World Conservation Union. 1994. Guidelines for Protected Area Management Categories. IUCN Commission on National Parks and Protected Areas (CNPPA) – World Conservation Monitoring Centre (WCMC), Gland-Switzerland and Cambridge-UK.
12. Lewis, Connie (Ed.). 1996. Managing Conflicts in Protected Areas. IUCN The World Conservation Union, Gland-Switzerland.
13. MacKinnon, J., K. MacKinnon, Graham Child, and Jim Thorsell. 1986. Managing Protected Areas in the Tropics, International Union for Conservation of Nature and Natural Resources (IUCN). Gland-Switzerland.
14. McNeely, J.A. and J. Thorsell. 1991. Guidelines for Preparing Protected Area System Plans. PARKS the international magazine dedicated to the protected areas of the world. Vol. 2 No. 2, July 1991 (System Planning): 4-8.

15. McNeely, Jeffrey A (Ed.). 1995. Expanding Partnerships in Conservation. IUCN, Island Press, Washington DC.
16. McNeely, Jeffrey A. 1999a. Mobilizing Broader Support for Asia's Biodiversity: How Civil Society can Contribute to Protected Area Management. Asian Development Bank – The World Conservation Union, Manila, the Philippines.
17. Meganck, Richard A., and Richard E Saunier. (Eds.). 1995. Conservation of Biodiversity and the New Regional planning. Department of regional Development and Environment, Executive Secretariat for Economic and Social Affairs, General Secretariat of Organization of American States – IUCN The World Conservation Union.
18. Saunier, Richard E., and Richard A. Meganck (Eds.). 1995. Conservation of Biodiversity and the New Regional planning. Department of Regional Development and Environment, Executive Secretariat for Economic and Social Affairs, General Secretariat of Organization of American States – IUCN The World Conservation Union.

### Teaching Material Support

The choice of media and type of technology use include:

1. Face-to-face contact.
2. Printed power point presentation. Lecture notes in form of printed out power point presentation will be available for each topic.
3. Reading assignment. It is recommended that students supplement the lecture notes by reading related references given.
4. Computer
5. Projector Infocus

### Course Outline

Topics	Sub-topics	Bloom's Taxonomy	Week
Introduction	<ol style="list-style-type: none"> <li>1. Meaning and definition (review)</li> <li>2. Aim and objectives of protected area management (review)</li> <li>3. Course practice context activities</li> <li>4. Lecture conduct</li> </ol>	C1,	1
Analysis of Indonesia's protected area categories	<ol style="list-style-type: none"> <li>1. Suitability of area category with management objective</li> <li>2. Evaluation of area category suitability with area bio-physical and socio-economic conditions</li> </ol>	C1, C2,C3	2 & 3

Topics	Sub-topics	Bloom's Taxonomy	Week
Analysis of area utilization activities	1. Suitability of protected area categories with types of area utilization	C1, C2,C3	4 & 5
Protected area design and management	1. Principle of ecological integrity 2. Principle of benefit 3. Principle of participation and partnerships (stakeholders identification and expected roles)	C1, C2	6 & 7
Area suitability study	1. Determination of study purpose 2. Survey preparation (study team, expertise and task distribution, activity plan, monitoring and evaluation plan) 3. Conduction of survey 4. Writing suitability study report	C1, C2,C3	8 & 9
Formulation of protection area management plan	1. Preparation (planning team and task distribution) 2. Collection of basic information 3. Field inventory and survey 4. Identification of obstacles and supporting factors 5. Determination of management objectives 6. Establishment of area zonation 7. Management programme: resources within the protected area, protection, utilization, monitoring and evaluation	C1, C2,C3,C4	10 & 11
Evaluation of protected area effectiveness	1. Determination of criteria and indicators of an effective management 2. Evaluation of management effectiveness 3. Evaluation of protected area management standard performance	C2,C3,C4	12 & 13
Capita Selecta	1. Condition of Indonesia's protected area and related problems 2. Protected area management policy	C3,C4	14

### Potential Course Overlap

There will be some overlap of topics from course Conservation Planning (KSH 222)

### Evaluation and Grading

#### 1. Mid-term examination

Mid-term examination will be held during examination period scheduled by Registrar's office (after 7 weeks lecture). Each exam is composed of fill in the blanks and short answers questions. Length of exam is 120 minutes. The exam will cover course topics delivered in week 1-7.

#### 2. Final examination

Final examination will be held during examination period scheduled by Registrar's office (after 7 weeks lecture). Each exam is composed of fill in the blanks, short

answers questions and essays. Length of exam is 120 minutes. The exam will cover course topics delivered in week 7-14.

### 3. Course practice

Each student is required to submit an individual assignment related to protected areas in Indonesia. Each student will choose a different protected area to be discussed. Due date for the submission of this assigned paper is the mid-term examination. Students are also required to submit a group project based on topic given related to a protected area visited during field trip. Due date for the group assignment is the final examination.

Compositions of grading are as follows:

<b>Assessment Tools</b>	<b>Maximum Score</b>	<b>% of Grade</b>
Mid-term examination	100	35
Individual assignment	100	10
Group assignment	100	10
Final examination	100	45

Final grade classification: A ( $\geq 75$ ); B (65-74); C (55-64); D (45-54); E (<45)

**Coverage of DFORCE Core Competence  
In Protected Area Management (KSH 323)**

**Code : KSH 323**

**Course : Protected Area Management**

**Credit : 3(2-3)**

Code	Core Competencies	Course Content Covered	Cognitive Level	Topic
I	Students will be able to understand correctly the meaning and scope of protected area management, management objectives and aims	Meaning and definition (review) Aim and objectives of protected area management (review) Course practice context activities Lecture conduct	C1	Introduction
II	Students will be able to understand motivation, values and benefits of protected areas for human welfare and position of protected area within regional and national development	Suitability of area category with management objective Evaluation of area category suitability with area bio-physical and socio-economic conditions	C1, C2, C3	Analysis of Indonesia's protected area categories
III	Students will be able to understand the suitability of protected areas based on utilization of categories	Suitability of protected area categories with types of area utilization	C1, C2, C3	Analysis of area utilization activities
IV	Students will be able to understand the basic principles of protected area through considerations of ecological integrity, benefits and stakeholders' roles	Principle of ecological integrity Principle of benefit Principle of participation and partnerships (stakeholders identification and expected roles)	C1, C2	Protected area design and management
V	Students will be able to understand and know how to conduct a survey for protected area suitability	Determination of study purpose Survey preparation (study team, expertise and task distribution, activity plan, monitoring and	C1, C2, C3	Area suitability study

Code	Core Competencies	Course Content Covered	Cognitive Level	Topic
		evaluation plan)		
		Conducting a survey		
		Writing of suitability study report		
VI	Students will be able to understand content of a management plan and learn to write a management plan of a protected area	Preparation (planning team and task distribution)	C1, C2, C3, C4	Formulation of protection area management plan
		Collection of basic information		
		Field inventory and survey		
		Identification of obstacles and supporting factors		
		Determination of management objectives		
		Establishment of area zonation		
		Management programme: resources within the protected area, protection, utilization, monitoring and evaluation		
		Tipe daerah penyangga		
		Karakteristik daerah penyangga		
		Buffer zone institution		
VII	Students will be able to understand factors that are influencing the eefctivity of a protected area	Determination of criteria and indicators of an effective management	C2, C3, C4	Evaluation of protected area effectiveness
		Evaluation of management effectiveness		
		Evaluation of protected area management standard performance		
VIII	Students will be able to give examples of protected area management in Indonesia and relates them to management policies	Condition of Indonesia's protected area and related problems	C3, C4	Capita Selecta
		Protected area management policy		

**Assessment Tools to Measure the Achievement of  
Learning Outcomes in Protected Area Management (KSH 323)**

**Code : KSH 323**

**Course : Protected Area Management**

**Credit : 3(2-3)**

<b>Code</b>	<b>Core Competencies</b>	<b>Learning Outcome</b>	<b>Bloom's Taxonomy</b>	<b>Assessment Tool(s)</b>	<b>Learning Activities</b>
I	Students will be able to understand correctly the meaning and scope of protected area management, management objectives and aims	Students will be able to explain correctly the meaning and scope of protected area management, management objectives and aims	C1	Written examinations at different cognitive level (mid-term exam).	Classroom lecture and discussion
II	Students will be able to understand motivation, values and benefits of protected areas for human welfare and position of protected area within regional and national development	Students will be able to explain motivation, values and benefits of protected areas for human welfare and position of protected area within regional and national development	C1, C2,C3	Written examinations at different cognitive level (mid-term exam).	Classroom lecture and discussion
III	Students will be able to understand the suitability of protected areas based on utilization of categories	Students will be able to explain the suitability of protected areas based on utilization of categories	C1, C2,C3	Written examinations at different cognitive level (mid-term exam).	Classroom lecture and discussion
IV	Students will be able to understand the basic principles of protected area through	Students will be able to explain the basic principles of protected area through	C1, C2	Written examinations at different cognitive level (mid-term exam).	Classroom lecture and discussion

<b>Code</b>	<b>Core Competencies</b>	<b>Learning Outcome</b>	<b>Bloom's Taxonomy</b>	<b>Assessment Tool(s)</b>	<b>Learning Activities</b>
	considerations of ecological integrity, benefits and stakeholders' roles	considerations of ecological integrity, benefits and stakeholders' roles			
V	Students will be able to understand and know how to conduct a survey for protected area suitability	Students will be able to explain and know how to conduct a survey for protected area suitability	C1, C2,C3	Written examinations at different cognitive level (final exam).	Classroom lecture and discussion
VI	Students will be able to understand content of a management plan and learn to write a management plan of a protected area	Students will be able to explain content of a management plan and learn to write a management plan of a protected area	C1, C2,C3,C4	Written examinations at different cognitive level (final exam).	Classroom lecture and discussion
VII	Students will be able to understand factors that are influencing the eefctivity of a protected area	Students will be able to explain factors that are influencing the eefctivity of a protected area	C2,C3,C4	Written examinations at different cognitive level (final exam).	Classroom lecture and discussion
VII	Students will be able to give examples of protected area management in Indonesia and relates them to management policies	Students will be able to give examples of protected area management in Indonesia and relates them to management policies	C3,C4	Written examinations at different cognitive level (final exam).	Classroom lecture and discussion