



## ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY BIP 1023

### GRADUATE PROGRAM

5 ECTS

### COURSE DESCRIPTION

Sustainability has emerged as a major challenge for societies and businesses worldwide. This course provides an understanding of environmental management and sustainable development in a world where the sufficiency of resources and life-sustaining systems is endangered by human impact. Students will be equipped with an understanding of natural resource management and skills in devising and enacting strategies to protect and conserve the environment, both in Bali and beyond. Issues such as pollution, climate change, and renewable energy are address as well as issues in global corporate social responsibility. The course will look into environmentally sustainable business strategies, innovation and environmental leadership and management, and how the environmental and social responsibilities are integrated into the business functions and strategies of the companies.

### OBJECTIVES

Students will learn how sustainability practices are implemented in a cost-effective manner both in public and private sectors. They will also acquire practical knowledge and management skills based on sustainability leadership principles. The students will learn:

- to examine the current state and challenges in environmental issues
- to develop an understanding of sustainable development and management in environmental issues as well as theories and practices
- To develop an ability to demonstrate a solid understanding of the role of businesses, sustainability, and their impact on the world
- to examine environmental policies, politics and legislation
- to understand the implications of unequal distribution of natural resources
- to look into the future of environmental management and sustainability

### TEACHING METHODS

The course will be presented in the form of lecture activities, classroom assignments and discussion, case studies, special topic presentation, and homework.

### ASSESSMENT METHODS



Assignments and discussion **30%**  
Middle Semester Test **30%**  
Final Semester Test **40%**

Classroom participation will also affect the grade.

## REFERENCES

Articles such as:

- Steven Turnbull: Waste Management (Case Study in Indonesia,) 2013
- Alihuddin Sitompul: Renewable Energy Development in Indonesia: Potential and Policy Framework, 2013
- Soeripno Martosaputro: Wind Hybrid Power Generation Market Development Initiatives, 2013
- Rie Miyaura, Tomoko Ohno, Hisayuki Maenaka, Ketut Sumiartha, and Hirofumi Yamaguchi: A Particular Silhouette of Human-Influenced Coconut Trees in Hindu Bali, Indonesia: An ethnobotanical field note
- G. Tyler Miller: Energy Efficiency and Renewable Energy
- Garth Ratcliffe: Renewable Energy

## LECTURERS

1. Prof. I Wayan Arthana, Ph.D (FKP)
2. I Wayan Gede Astawa Karang, Ph.D (FKP)
3. I Gede Hendrawan, Ph.D (FKP)
4. Dr Pande Gede Sasmita Julyantoro, S.Si., M.Si.
5. Wayan Kasa, Ph.D (Mipa)
6. Ida Ayu Astarini, Ph.D (Mipa)

## LECTURE TOPICS

WEEK	TOPICS OF STUDY
1	Course Introduction
2	Climate Change
3	Sustainability and sustainability reporting
4	Eco-Power and Renewable Energy
5	Recycling and Waste Management
6	Current Environmental Issues in Indonesia and Bali
7	Green Businesses and Industrial Ecology
8	<b>MIDDLE TEST</b>
9	Environmental responsibility and Corporations' role in climate change
10	Eco-Tourism
11	Environmental education for locals and visitors
12	Environmental policies, politics and legislation
13	Business Management and Environmental Leadership



<b>14</b>	Innovation and Sustainable Development
<b>15</b>	Project "Green Bali"
<b>16</b>	<b>FINAL TEST</b>

**WORKLOAD**

ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY

16 weeks

		Weeks per semester																TOTAL hrs
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<b>INDEPENDENT WORK</b>	Homework, assignments		2	2	2	2	2	2		2	2	2	2	2	2	2		26
	Workshops				4													4
	Exam preparation							5								5		10
	Company visits, excursions										4							4
	Preparation for presentations and papers			2						2								4
	Preparation for class		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	28
	Follow-up for class		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
	Final essay paper																10	10
	Course evaluation																2	2
	Workshop and Excursion Paper					2						2						4
																	<b>107</b>	
<b>HRS OF EXAMS</b>									2							2	<b>4</b>	
<b>MANDATORY CLASS ATTENDANCE</b>	<b>Class</b> Weekly hrs ~ 2	2	2	2	2	2	2	2		2	2	2	2	2	2	2	<b>28</b>	
		<b>TOTAL WORKLOAD PER COURSE (HOURS)</b>																<b>139</b>
		<b>TOTAL ECTS</b>																<b>5</b>

Udayana University reserves the right for changes.

The syllabus is introductory and the latest version will be distributed in the beginning of the lectures.

Holiday schedules may vary depending on the public holidays.