

Short Course Program
in Gunung Walat University
Forest (GWUF)

Introduction to Tropical Forestry in Indonesia



FACULTY OF FORESTRY,
BOGOR AGRICULTURAL UNIVERSITY
2015

Introduction

Gunung Walat University Forest (GWUF) is an internationally recognized university forest, which is managed by Faculty of Forestry of Bogor Agricultural University (IPB). GWUF sustainably manages plantation forest resources for producing non-timber forest products (i.e. pine and agathis resins) and continuously supports educations, researches, and community services. The plantation forest of GWUF was established in 1951, starting from almost bare-lands with wild grasses (*Imperata cylindrical*) and sparse *Agathis loranthifolia* trees. At present, forest cover of GWUF has reached approximately 95% with two major tree species, i.e. *Agathis loranthifolia* and pine (*Pinus merkusii*), and some minor tree species such as *Schima wallichii*, *Maesopsis eminii*, mahogany (*Swietenia macrophylla*), and *Altingia excelsa*. By implementing a zero cutting policy, GWUF able to manages the plantations to approach a close-to-natural forest condition. Such a good forest condition provides suitable habitats for various faunas, such as long tailed macaque (*Macaca fascicularis*), wild boar (*Sus scrofa*), slow loris (*Nycticebus javanicus*), wild rabbit (*Nesolagus sp.*), jungle cat (*Felis bengalensis*), squirrel (*Callociurus sp.*), pangolin (*Manis javanica*), and civet (*Paradoxurus hermaphroditic*). In addition, the good forest of GWUF has produced at least seven water springs, which are available in all seasons, to provide a continuous flow of water for the needs of local communities.



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GWUF implements sustainable forest management practices that rest in three pillars:

- Economic sustainability: GWUF capable to provide economic benefits for supporting a self-funded sustainable forest management.
- Ecological sustainability: GWUF contributes to enhance quality of environment.
- Social sustainability: GWUF provides continuous benefits for local communities.



Among other forest management units in Indonesia, GWUF has three uniqueness. First, GWUF provides a success story of transforming bare-lands into forested lands. Second, GWUF is a self-funded university forest that can survive without cutting the trees. Third, GWUF is a small scale forest management unit for promoting education and research in forestry and environment. The uniqueness of GWUF have motivated many people from various institutions to conduct various activities in GWUF, such as forestry and environmental education, research, training, short course, and ecotourism. To date, GWUF has been visited by 37 nationalities who came from various countries. Knowledge on tropical forests can also be expanded by visiting neighboring locations, such as national parks, teak plantations, community forests, and wood processing industries, which are close to the GWUF.

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Objective

This short course is aimed at introducing tropical forestry in Indonesia by studying the small scale forest management in GWUF and some related forestry practices in the surrounding areas of GWUF. Specifically, the objectives of this short course are to:

- Enhance foreign student's knowledge on various aspects of forest management in Indonesia.
- Evaluate multiple benefits of tropical forests by using a case study in GWUF.
- Enrich foreign student's knowledge on tropical forestry practices by visiting forest areas outside of GWUF.

Program and Schedule

This short course is scheduled for 4 weeks that offer both lectures, field practices, and fieldtrips on tropical forestry aspects in Indonesia. The lectures will provide general information and knowledge on four subjects: 1) small scale forest management in GWUF, 2) forest management system, 3) forest inventory, 4) tropical silviculture system, 5) identifying tree species and habitat characteristic, 6) community-based forest management, 7) forest industry, 8) forest utilization, 9) tropical forest biodiversity, and 10) conservation of tropical forest resources. The field practices will enhance student's skills on conducting some forest management practices in GWUF, while the field trips will enrich student's knowledge on related forestry practices in other areas. Table 1 shows main topics of the short course for each week. The specific dates of each week will be assigned later, depending on the request of short course participants.

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Table 1. Tentative schedule of the short course programs in GWUF

Date	Program	Corresponding	Place
Week 1	Orientation campus program	Dr. Nandi Kosmaryandi	IPB Darmaga campus
	Lecture 1: Small scale forest management in GWUF	Dr. Nandi Kosmaryandi	GWUF Site
	Lecture 2: Forest management system in Indonesia	Dr. Tatang Tiriyana	GWUF Site
	Lecture 3: Designing a forest inventory Field practice 1: Forest inventory to estimate timber, biomass and carbon stocks of GWUF		GWUF Site
Week 2	Lecture 4: Tropical silviculture system in Indonesia	Ir. Andi Sukendro, MSc.	GWUF Site
	Lecture 5: Identifying tree species and habitat characteristic Field practice 2: Planting, maintaining, and monitoring plantation forest		GWUF Site
	Lecture 6: Community-based forest management Field practice 3: Assessing interaction between community and forest	Dr. Iin Ichwandi	GWUF Site
	Lecture 7: Forest industry in Indonesia Lecture 8: Forest utilization Field practice 4: Pine and agathis resin tapping		GWUF Site
Week 3	Fieldtrip 1: Visit to a wood industry	Dr. Gunawan Santosa	Sukabumi District
	Fieldtrip 2: Visit to a resin industry		Bandung District
	Lecture 9: Tropical forest biodiversity Field practice 4: Observation of biodiversity and karst cave		GWUF Site
Week 4	Lecture 10: Conservation of tropical forest resource in Indonesia Fieldtrip 3: Visit to a national park	Dr. Cahyo Wibowo	GWUF Site
		Dr. Nandi Kosmaryandi	GWUF Site
			Gede Pangrango National Park

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Facilities and Environment

Mess Hall and Hall



A gathering venue in an atmosphere of traditional buildings

Cottage and Dormitory



Overnight in traditional houses and comfortable rooms

Class Room, Camping Site, and Nursery



A pleasant place to learn about the forest and environment

Forest and Cave



Presents a variety of ecosystem types

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Further Information

For further information regarding this short course, you may contact the following GWUF staff:

Dr. Tatang Tiriyana
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Location Map



Site: Ciantayan and Hegarmanah Villages, Cibadak Sub District, Sukabumi District, West Java – INDONESIA



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