

Course Outline*Institut Pertanian Bogor - ACICIS' Agriculture Semester Program*

Unit name	Rural and Urban Biodiversity (BIO375)
Department/ Faculty	Biology Faculty of Mathematics and Natural Science
Course credit (SKS)	3 (2-3)
Offered in	Every semester
Pre-requisite	-
Language	Indonesian English <input checked="" type="checkbox"/> Both
Course description The course covers applied biosciences on tropical biodiversity, focusing in rural and urban community. The course provides the science behind biodiversity utilization, such as environmental management, agriculture, bioenergy, and biodiversity for specific uses in rural and urban ecosystem. A field trip will be conducted as integrated part of the course.	
Learning outcomes Students can understand and able to explain tropical biodiversity utilization in rural and urban community. Students also able to explain the biodiversity management for human needs.	
Contact Hours 2 x 50 minutes for lecture (2 credits) and 3 x 50 minutes for lab work (1 credit) per week	

Course topics (subject to change)

Week	Topics
1	Indonesian Land Use and Rehabilitation
2	Ecosystem Conservation in Indonesia
3	Organic Farming
4	Insect Pollinator
5	Animal Pollinator
6	Natural Dye for Batik
7	Natural Dye for Food
8	Biomass and Waste Utilization
9	Renewable Energy Product
10	Biodiesel from Biomass
11	Urban Pest
12	Hydroponic for Urban Farming
13	Indoor Microbes and Mites
14	Field Trip