



WARMADewa UNIVERSITY

BALINESE AGRICULTURAL INDUSTRY AND TECHNOLOGY

COURSE SYLLABUS

WIP33B15

International Program



BALINESE AGRICULTURAL INDUSTRY AND TECHNOLOGY

5 ECTS

COURSE DESCRIPTION

The course on agricultural industry and technology provides students with an in-depth understanding of the agricultural sector and how technology is transforming it. It covers various aspects of modern agricultural practices, technological advancements, and their applications in improving productivity, sustainability, and profitability in the industry.

OBJECTIVES

By the end of this course, students should be able:

- To understand about Tourism-based agricultural industry technology
- To understand about industry based on chocolate, honey and coffee industry
- To understand about home industry based on agricultural commodities
- To explain role of biotechnology in agriculture like biofertilizer technology and soil organism production technology
- To understand the importance of soil health and soil conservation
- To understand of climate smart agriculture and agroforestry

OUTCOMES

- Attitude: Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.
- Ability: Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.
- Accomplishments: Demonstrate accomplishment of discovery/innovation/creativity through producing/constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

ASSIGNMENTS

During the semester, you will do several assignments that are mainly focusing on literature reviews on different topics given by the lecturer. The assignments will be included in the course grade at the end of your semester.



LECTURING METHOD

The course will be presented in the form of lecture activities, discussion, case study, homework and presentation.

- Individual Assignment: Individual essay of opportunity recognition
- Group Assignment: Participation in preparation of group project work, presentation, discussion in class
- Presentation and discussion: Performance presentation of group assignment and discussion in class

ASSESSMENT METHOD

Class attendance 10 %,
Class participation and assignments 30 %,
Mid-term exam 30 %
Final exam 30 %

LECTURERS

WIP Team

LECTURE TOPICS

Week	Topics
1	Tourism-based agricultural industry technology
2	Chocolate industry technology
3	Industrial technology based on honey
4	Industrial technology based on the coffee industry
5	Home industry based on agricultural commodities
6	Sustainable Agriculture
7	Food Safety and Traceability
8	MIDTERM EXAM
9	Biotechnology in Agriculture
10	Biofertilizer Technology
11	Soil Organism Production Technology
12	Soil health
13	Soil Conservation



14	Climate-Smart Agriculture
15	Agroforestry
16	FINAL EXAM

WORKLOAD

BALINESE AGRICULTURAL INDUSTRY AND TECHNOLOGY

16 weeks

		Weeks per semester																TOTAL hrs
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
INDEPENDENT WORK	Homework, assignments	2	2	2	2	2	2	2			2	2	2	2	2	2		24
	Workshops				4													4
	Exam preparation							9								10		19
	Company visits, excursions										4							4
	Preparation for presentations and papers			2		2		2			2		2		2			12
	Preparation for class	2	2	2	2	2	2				2	2	2	2	2	2		24
	Follow-up for class	1	1	1	1	1	1				1	1	1	1	1	1		12
	Final essay paper															10		10
	Course evaluation																2	2
	Workshops and Excursion Paper					2						2						4
																		115
HRS OF EXAMS																		
MANDATORY	Class Weekly																	
CLASS	hrs ~ 2	2	2	2	2	2	2	2			2	2	2	2	2	2		26
ATTENDANCE																		
																		TOTAL WORKLOAD PER COURSE (HOURS)
																		145
																		TOTAL ECTS
																		5