

SUMMER COURSE TIN 2023 SUSTAINABLE AGROINDUSTRY IN RURAL AREAS

"Adding Values to Local Commodities In CHOCOTEA"

July, 3rd – 30th 2023

PROGRAM BOOK



ORGANIZER



Hosted by

IPB University

Villanova University

Colorado School of Mines

Padjajaran University



Supported by

Universiti Putra Malaysia

Maejo University

Rhine Waal University

Kasetsart University



Sponsored by

Indonesia Research Institute of Industrial and Beverage Crops

Ranin Coffee House

> Cau Chocolate

Laresolo Tea House

Belift

COURSE INFORMATION



Course Name

 Sustainable Agroindustry in Rural Areas



Course Code

· IPB300



Credit

3 Credits



Type of Course

· Summer Course



Duration

• July 3rd – 30th, 2023



Place: Bogor, Indonesia

 Hybrid (2 weeks online & 2 week offline/in site)

COURSE DESCRIPTION



Sustainable Agroindustry in Rural Areas

PB300

This course is design to provide students with knowledge and abilities to design components or systems of sustainable rural agroindustry that built upon the integration between process engineering, industrial system engineering and environmental engineering and management. Students learn about development of agroindustrial products and processes that add values to local commodities, systems and management that supports rural agroindustries, and development of Agroindustrial cleaner agroindustry. Students will also be provided with design thinking with an application to agroindustry development.

LEARNING OUTCOMES

Students are expected to be:



Able to identify, analyze and solve problems in agroindustry that cover aspects of process technology, industrial management, systems engineering, and environmental engineering and management in the economic, environmental, and societal contexts as well as other contemporary issues



Able to design a sustainable rural Agroindustrial system/component, process and product by applying engineering concepts to solve engineering problems through experiential learning.



Able to recognize the needs and have the ability to be involved in lifelong learning

RESOURCE PERSONS

SUSTAINABILITY

Prof. Jordan Ermilio (Villanova University)

Prof. Justinus Satrio (Villanova University)

Asst. Prof. Julakorn Panatuk (Maejo University)

Prof. Nastiti S. Indrasti (IPB University)

Prof. Matthias Kleinke (Rhein Waal University)

Prof. Suprihatin (IPB University)

Prof. M. Romli (IPB University)

FACILITATOR

Prof. Endang Warsiki (IPB University)

Dr. Elisa Anggraeni (IPB University)

M. Arif Darmawan, MSi (IPB University)

Deasy Kartika R, M.T. (IPB University)

Jantamas Wantasin, PhD. (Maejo University)

Dr. Efri Madarwati, S.TP., M,T. (Padjajaran University)

CHOCOLATE

Dr. I.W. Alit A. WigunaCau Chocolate

Dr. Teddy Dirhamsyah SP., MABIndonesia Research Institute
of Industrial and Beverage
Crops

Indah Sulistyorini, SP., M.Si Indonesia Research Institute of Industrial and Beverage Crops

COFFEE

Ir. Tejo PramonoRanin Coffee House

Ir. Uji Sapitu Ranin Coffee House

Mr. Ivan HartantoBelift

Tea & Coffee Farmers

Dr. Sunate Subkhar Maejo University

DESIGN THINKING

Prof. Mirna Mattjik (Colorado School of Mines) Dr. Chananpat R. (Maejo University)

TEA

Mr.Bambang Laresolo
Laresolo Tea House

Prof. Yaya Rukayadi UPM Malavsia

Prof. Titi C. Sunarti IPB University

STUDENT MENTORS

Student mentors is assigned to assist the Summer Course participants in achieving the course goal. Student mentors will help participants with academic, personal, and professional issues, as well as give emotional support. Student mentors are recruited from the students who already took the summer course in previous year or students who already finished a certain courses with good grade.

SUPPORTS

Januardi, PhD. (IPB University)

Yeyen Lorenza, MSi. (Kasetsart University)

Lolita Anggarini, SE, M.M. (IPB University)

DATE

TIME//

Online

	DAIL	METHOD	107165	RESOURCE PERSON
1	Monday 3 rd July 2023	07.00 - 10.00 am UTC+7 Online	 Opening Ceremony "Agroindustrial Engineering Talk: Sustainable Agroindustry in Rural Area" Getting to know 	 Prof. Practice. Jordan Erlimio (Villanova University) Army Larkin (PR3 USA) Director of International Education (IPB University)
2	Tuesday 4 th July 2023	07.00 – 09.00 am (UTC+7) Online	 Designers/Agro- industrialist and Sustainable Development Assignments 	 Prof. M. Romli (IPB University) Dr. Elisa Anggraeni (IPB University)
3	Wednesday 5 th July 2023	07.00 – 09.00 am (UTC+7) Online	Cleaner Industrial Production in Chocotea Industry	 Prof. Mattias Kleinke (Rhein Waal University) Prof. Nastiti Siswi Indrasti (IPB University)
4	Thursday 6 th July 2023	07.00 – 09.00 am (UTC+7) Online	Sustainable Design in Chocotea Industry	 Prof. Teach. Mirna Mattjik (Colorado School of Mines) Dr. Chananpat Rardniyom (Maejo University)
5	Friday 7 th July 2023 Online	07.00 – 09.00 am UTC+7)	Assignment 1: Learn from sustainable design in Chocotea Industry globally	 Dr. Elisa Anggraeni, S.TP., MSc. (IPB University) Prof. Dr. Endang Warsiki, S.TP., MSi (IPB University)
6	Saturday 8 th July 2023	07.00 – 10.00 am UTC+7	Independent work	 Januardi, S.TP., M.T., PhD (IPB University) Yeyen Lorenza, S.Pi., MSi. (Kasetsrat University)

TOPICS

RESOURCE PERSON

• Students Mentors

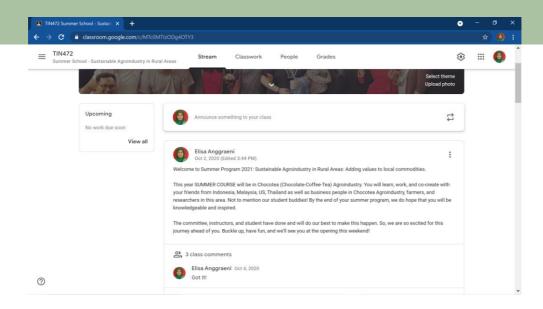
NO	DATE	TIME/ METHOD	TOPICS	RESOURCE PERSON
7	Monday 10 th July 2023	07.00 - 10.00 am UTC+7 Online	Presentation of Assignment 1	 Dr. Elisa Anggraeni, S.TP., MSc. (IPB University) Assist. Prof. Dr. Julakorn Panatuk (Maejo University) Prof. Dr. Endang Warsiki, S.TP., Msi. (IPB University) Jantamas Wantasin, PhD. (Maejo University) Deasy Kartika R., S.TP., M.T. M. Arif Darmawan, S.TP., M.T.
8	Tuesday 11 th July 2023	07.00 – 10.00 pm (UTC+7) Online	Materials & Transformation in Chocotea Industry)	 Assoc. Prof. Dr. Yaya Rukayadi (Universiti Putra Malaysia) Prof. Dr. Ir. Titi Candra Sunarti, MSi. (IPB University) Dr. Efri Madarwati, S.TP., MSi (Padjajaran University)
9	Wednesday 12 th July 2023	07.00 – 10.00 am (UTC+7) Online	Sustainable business in:	 Practitioners Dr. I.W. Alit A. Wiguna, MSi (Cau Chocolate) Ir. Tejo Pramono/Ir. Uji Sapitu (Ranin Coffee House) Bambang Laresolo (Tea House Laresolo)
10	Thursday 13 th July 2023	07.00 – 10.00 am (UTC+7)	Water and Energy Nexus in Chocotea Industry	Assoc. Prof. Justinus Satrio (Villanova University)

NO	DATE/ METHOD	TIME	TOPICS	RESOURCE PERSON
11	Friday 14 th July 2023	Departure Preparation Arrival Orientation Check in/Social and Cultural Activities		 Prof. Dr. Endang Warsiki, S.TP., MSi. (IPB University) Januardi, S.TP., M.T., PhD. IPB University) Lolita Anggarini, S.E., (IPB University)
12	Saturday- Sunday 15 th – 16 th July 2023			
13	Monday 17 rd July 2023	09.00 am – 03.00 pm (UTC+7) Offline	Team Building	 Prof. Dr. Endang Warsiki, S.TP., MSi. (IPB University) Januardi, S.TP., M.T., PhD. (IPB University) Deasy Kartika R., S.TP., Msi. (IPB University)
14	Tuesday 18 th July 2023	09.00 am – 0500 pm (UTC+7) Hybrid	 Depart to Boot Camp/Bandung/Pa ngalengan 	 Dr. Elisa Anggraeni, S.TP., MSc. (IPB University) Januardi, S.TP., M.T. (IPB University) Deasy Kartika R., S.TP., MSi. (IPB University) Supriyanto
15	Wednesday- Thursday 19 th – 20 th July 2023	07.00 am – 09.00 pm	Immersion Day	 Dr. Elisa Anggraeni, S.TP., MSc. (IPB University) Dr. Efry Madarwati, S.TP., MSi (Padjajaran University) Januardi, S.TP., M.T., PhD (IPB University) Devi Maulida Rahmah, STP., MT (Padjajaran University)

NO 7	DATE	TIME// METHOD	TOPICS	RESOURCE PERSON
16	Friday 21 st July 2023	07.00 am – 05.00 pm (UTC+7) Offline	Back to IPB/Reflection	 Dr. Elisa Anggraeni, S.TP., MSc. (IPB University) Januardi, S.TP., M.T. (IPB University) Deasy Kartika R., S.TP., MSi. (IPB University) Supriyanto
17	Saturday 22 th July 2023	07.00 am – 05.00 pm (UTC+7) Offline	Design Sprint Day 1: Map (Understand and formulate	FacilitatorsStudent Mentors
18	Sunday 23 th July 2023	07.00 am- 05.00 pm	Social activities	
19	Monday 24 th July 2023	07.00 am – 05.00 pm (UTC+7)	Design Sprint 2: Sketch (Ideation - Generate alternative designs/solutions)	FacilitatorsStudent Mentors
20	Tuesday 25 th July 2023	07.00 am – 05.00 pm (UTC+7) Offline	Design Sprint 3: Decide (Select the best design/solution concept)	FacilitatorsStudent Mentors
21	Wednesday 26 th July 2023	07.00 am – 05.00 pm (UTC+7) Offline	Design Sprint Day 4: Prototype Simulate a finished product (goods or service) for your customers	FacilitatorsStudent Mentors

NO	DATE	TIME/ METHOD	TOPICS	RESOURCE PERSON
22	Thursday 27 st July 2023 Offline	07.00 am – 05.00 pm (UTC+7) Offline	Design Sprint Day 5: Test Preparing your Pitch	FacilitatorsMentors
23	Friday 28 th July 2023	07.00 am – 05.00 pm (UTC+7)	IDEA PITCH COMPETITION	JudgesfacilitatorsMentors
24	Saturday 29 th July 2023	09.00 am – 12.00 am (UTC+7)	Closing Ceremony Winner Awarding Performances	
26	Sunday 30 th July 2023 Offline	CHECK OUT		 Prof. Dr. Endang Warsiki, S.TP., MSi. (IPB University) Januardi, S.TP., M.T., PhD. (IPB University) Lolita Anggarini, SE., M.M. (IPB University).

LOGISTICS: Doing it online

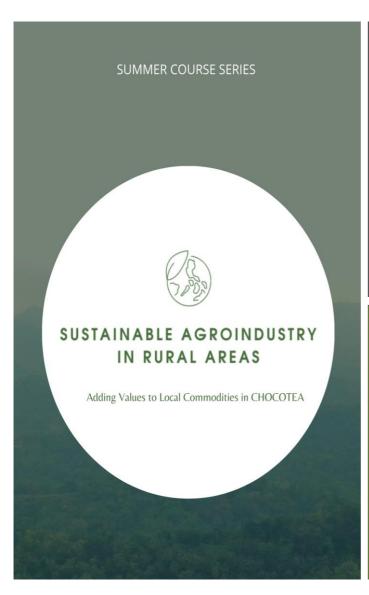


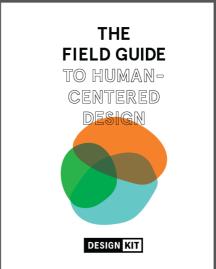
For this year, we are going to conduct our summer program hybrid.

In addition to class meetings, practical works and immersion in the field, we are going to use the following tools below. If you are not familiar yet, the following are videos and tools to help you get started:

- 1. Zoom Meetings for our synchronous meetings https://www.youtube.com/watch?v=hlkCmbvAHQQ
- 2. Google Classroom for our asynchronous meeting (materials, assignments, chats, or getting feedbacks) https://www.youtube.com/watch?v=-HasLAg6Vcg
- 3. Google Jamboard for your collaborative works such as brainstorming during idea generation https://www.youtube.com/watch?v=S9m4HCjOkcA
- 4. Other communication tools such as WhatsApp and emails (information will follow)
 - a. 5. Youtube Channel tin-ipb
 - b. Google Drive.

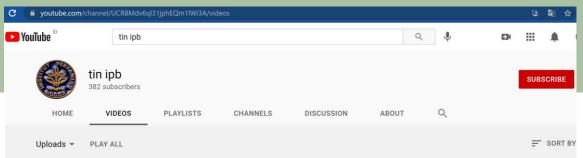
LOGISTICS: Reading Materials







LOGISTICS: Videos



Tedjo Pramono

Basic Knowledge on Coffee:

https://drive.google.com/drive/u/1/folders/1ua4Mkycyr4yL_Rgrw-EFyeueisdvebVX

Practices Of Sustainability From A Rural Based Coffee Business:

https://drive.google.com/drive/u/1/folders/1ua4Mkycyr4yL_ Rgrw-EFyeueisdvebVX

Dr. Sunate Subkar

Coffee Processing in Thailand https://drive.google.com/drive/u/1/folders/lua4Mkycyr4yL_Rqrw-EFyeueisdvebVX

Asif Aunillah, MSi

Cocoa Post Harvest Technology: https://drive.google.com/drive/u/1/folders/1LpCu5IMHP_wQxan2520fvscYql_5c5Vx

Dr. I Wayan Alit Artha Wiguna

Sustainable Agroindustry In Rural Area: Case: Chocolate Industry of Cau Chocolates Bali, Through the Implementation of the NEO-GT Concept: https://drive.google.com/drive/u/1/folders/1LpCu5IMHP_wQxan2520fvscYql_5c5Vx

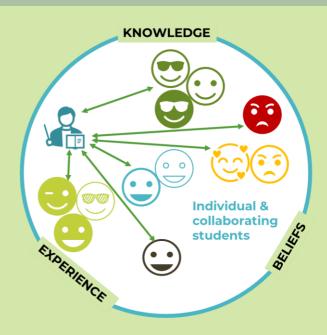
Virtual Trip

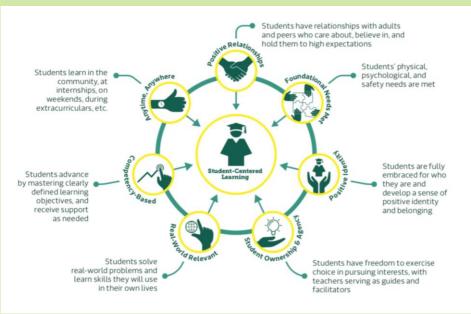
Field TripTrip to Kampung Kopi Cibulao: https://www.youtube.com/watch?v=ZG9S0JH-9yw&t=767s

DELIVERY METHODS

1

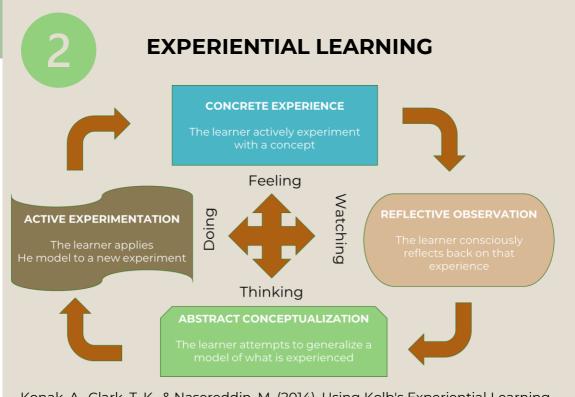
STUDENT CENTERED LEARNING





Taken from Shafer, D.E. (2001) How to create a student-centered classroom https://gwangjunewsgic.com/teaching/kotesol/creating-a-student-centered-classroom/

DELIVERY METHODS

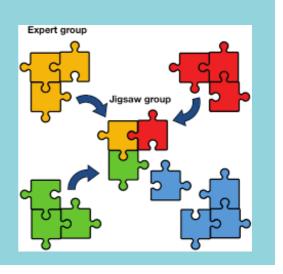


Konak, A., Clark, T. K., & Nasereddin, M. (2014). Using Kolb's Experiential Learning Cycle to improve student learning in virtual computer laboratories. Computers & Education, 72, 11-22.

3

JIGSAW METHOD

Sanchez-Muñoz, R., Carrió, M., Rodríguez, G., Pérez, N., & Moyano, E. (2020). A hybrid strategy to develop real-life competences combining flipped classroom, jigsaw method and project-based learning. Journal of Biological Education, 1-12.



STRUCTURE OF IN-CLASS MEETINGS

Independent Pre-work: Reading materials, watching videos



In-class activities

Highlighting concepts from resource persons

Group works

Feedbacks form resource persons



Assignment:

Implementing concepts in Mini Project



Presentation and Competition

REGISRATION

https://ipb.link/applicationform-sctin2023
https://forms.gle/wqNZfAq1R33RXbM36*
*Registration will be closed on June 20th 2023







SUSTAINABLE AGROINDUSTRY IN RURAL AREAS

Contact Endang Warsiki Email: endangwarsiki@apps.ipb.ac.id





























