

The 2017 Summer Course Program

Green Technology for Sustainable Tropical Agriculture for Bachelor Students in Agricultural Engineering

Summer Course Program Guidance Green Technology for Sustainable Tropical Agriculture

Bogor, 13-22 August 2017

Organized by Department of
Mechanical and Biosystem Engineering, Bogor Agricultural University

Objectives

The 2017 Summer Course Program on Green Technology for Sustainable Tropical Agriculture will be held to understand regional sustainability by means of multifaceted research and technology of sustainable tropical agriculture. The program is arranged to promote talents to find problem and discuss solution independently concerning this science field. In addition, the program is arranged to improve the ability to communicate effectively both orally and in writing, to work in a team that is multi-disciplinary and multi-cultural as well as awareness of the need for lifelong learning including access to information related to current issues. For attaining this purpose, this summer course involves plenary lectures, field practices, technical tours and group discussion toward sustainable tropical agriculture on technology and agricultural engineering perspective.

Keywords

Agricultural sustainability, green technology, agricultural engineering, environmental impact, etc

Application Submission

All students who participate this summer course are encouraged to have study project would like to pursue and the reason their want to study that. Application for admission of summer course program should be submitted to Liyantono@apps.ipb.ac.id or Lilissucahyo@gmail.com. The deadline for submission of abstracts is 31st July, 2017.

Field Works

The fieldwork activities at oil palm plantation and palm oil mill at PTPN 8, Kampung Wisata Cinangneng, and Indonesian Industrial and Beverage Crops Research Institute would be conducted for discussing about sustainable tropical agriculture, using field equipment to find out some insights for regional sustainability. In addition, field practice in small medium enterprise would be conducted to produce artificial rice and specialty coffee.

Group Discussion

Group discussion would be focused for raising the issues related to the agricultural technology practices in relation with tropical agriculture sustainability and formulate the solutions for respective issue raised. The issues may be cover specific or general aspects such as: Technological implementation, Research and development, Organization and management, Financial, Government policy aspect, Human resources, etc.

Participants

Undergraduate student from universities in Japan and ASEAN included Indonesia (Bogor Agricultural University (IPB)).

Costs

Program cost and local expenses (accommodation, transportation from airport to IPB Campus, and meal) would be cover by Bogor Agricultural University (IPB).

Programs

Date	Time	Topics/Daytime Activities	Place
13rd, Sunday	August, 2017	Arrival	Landhuis Guest House IPB
14th, Monday	Lectures: The Role of Agricultural Engineering for Sustainable Agriculture Production		RK TMB-1
	08.00 - 08.30	Opening Ceremony and SCP briefing	
	08.30 - 10.30	Sustainability in Agriculture	
	10.30 - 12.00	Indonesia Local Genius in Agriculture	
	12.00 - 13.00	Break/lunch	
	13.00 - 15.00	Tropical Agricultural Production	
15.00 - 17.00	The role of Agricultural Engineering for Sustainable Agriculture Production		
15th, Wednesday	Lectures: Oil Palm Industry		RK TMB-1
	08.00 - 10.00	Introduction to oil palm industry	
	10.00 - 12.00	Cultivation, harvesting and transporting technology of oil palm	
	12.00 - 13.00	Break/Lunch	
	13.00 - 15.00	Oil palm: Products and processing	
15.00 - 17.00	Energy aspect in oil palm industry		
16th, Thursday	Excursion: PTPN 8 Cikasungka (Study the agricultural engineering for sustainable production)		PTPN Cikasungka West Java
	07.30 - 09.00	Transfer to Cikasungka Palm Oil Processing	
	09.00 - 10.30	Welcome speech by Host	
	10.30 - 12.00	Group activities: On farm	
	12.00 - 13.00	Lunch break	
	13.00 - 16.00	Group activities: Palm Oil Mills	
16.00 - 18.00	Return to Bogor		

Date	Time	Topics/Daytime Activities	Place	
17th, Tuesday	Agri-Cultural Activity		Cinangneng Cultural Village	
	08.00 - 08.15	Transfer to Kampoeng Wisata		
	08.15 - 09.00	Welcome speech by Host		
	09.00 - 10.00	Play Angklung		
	10.00 - 11.00	Explore village activities		
	11.00 - 12.00	Rice transplanting		
	12.00 - 13.00	Break/lunch		
	13.00 - 16.30	Traditional food and drink class		
		Traditional intrumental class (gamelan)		
		Traditional dance class		
		Painting in the cap		
16.30 - 17.00	Closing			
17.00 - 17.15	Transfer to Campus			
18th, Friday	Lectures: Coffee, Cacao and Tea Production		RK TMB-1	
	08.00 - 10.00	Introduction to Coffee, Cacao and Tea Industry		
	10.00 - 12.00	Cacao Processing Technology		
	12.00 - 13.00	Break/Lunch		
	13.00 - 15.00	Coffee Processing Technology		
	15.00 - 17.00	Tea Processing Technology		
19th, Saturday	Field Practice: Indonesian Industrial and Beverage Crops Research Instute, Sukabumi (Study the agricultural engineering for sustainable production)		Indonesia Industrial and Beverage Crops Research Institute	
	06.30 - 10.00	Transfer to Sukabumi		Bus
	10.00 - 10.30	Welcome speech by Host		
	10.30 - 12.00	Group activities: Coffee bean production		
	12.00 - 13.00	Lunch break		
	13.00 - 16.00	Group activities: Cocoa bean production		
	16.00 - 19.00	Return to Bogor		Bus
20th, Sunday	Filed Practice: Bogor Botanical Garden and Cupping Test		Bogor Botanical Garden	
	08.00 - 12.00	Visit to Bogor Botanical Garden		
	12.00 - 13.00	Break/Lunch		
	13.00 - 17.00	Field Practice: Cupping test of specialty coffee		Ranin Coffee

Date	Time	Topics/Daytime Activities	Place
		Free Time	
21st, Monday	09.00 - 12.00	Group Discussion	RK TMB-1
	12.00 - 13.00	Break/Lunch	
	13.00 - 16.00	Group Presentation	
	18.30 - 21.00	Farewell and cultural exchange	
		Closing	
22nd, Tuesday	09.00 - 12.00	Free Time	Botani Square
	13.00 -	Move to Airport	Bus
	18.25	Departure	

Committe Chairman

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