



Course Outline

International Training Course

1. Course Title:

SUFFICIENCY ECONOMY PHILOSOPHY (SEP): CONCEPT AND IMPLEMENTATION FOR AGICULTURAL DEPLOYMENT UNDER CLIMATE CHANGE CRISIS FOR FOOD SECURITY

2. Duration:

3 May - 3 June 2025

3. Background and Rational:

TICA: Thailand International Cooperation Agency

TICA is a national focal point for Thailand's international development cooperation. TICA was established in 2004 to realize Thailand's aspiration to be a contributor of development cooperation. Believing that global challenges are best addressed by international cooperation and global partnership, today we continue to strengthen our contribution to achieve global development agenda through various capacity-building and human resources development programmes. In response to the recent changes in the global landscape of development cooperation, especially through the concept of South-South and Triangular Cooperation, TICA continues to realign our focuses in order to deliver Thailand's commitment to be a relevant partner in global agendas including the 2030 Agenda for Sustainable Development.

The green revolution in agriculture has led the world to accelerate production to increase the production. Which, that is compatible with the situation of sufficient food consumption for the world population. It can be said that in the period after the green revolution onwards, the worlds have benefited from accelerated in terms of agricultural productivity and population growth. Due to the increasing population of the world and well-being of the people, there has been a wide range of industrial growth also. "Nothing can be obtained without using anything in exchange", this is the truth for every situations. As well, it is beyond imagination that how much natural

resources have been used by human for supporting both agricultural and industrial production until to this day. But the effects of those human actions have already been shown in this decade in the problem came from climate changes. Weather fluctuations and the severity of the harsh environments; such as strong winds, storms, floods, over heat, salinity and drought, are now reported in many areas around the world. The severity of these harsh environments is predicted to enter a crisis in the near future. Awareness of the problem of climate change will be useful if humans have jointly solved the problem of the cause of global warming together. However, in the agricultural sector that still has to carry out production activities. Sustainable agriculture is an alternative and reasonable approach in producing food which will not entail deleterious effect to economic, environment and human health. Under the umbrella of Sufficiency Economy Philosophy (SEP), producing animal and crop sustainably should be able to not only reduce environmental and health problems, but also enhance value of these agricultural product substantially. Especially in the current situation where the world is facing the climate change crisis. Agricultural management needs to be carried out knowledgeably and creatively in order to provide adequate food in both quantities and qualities in these critical environments. For this reason, it is important to apply Sufficiency Economy Philosophy together with the knowledge of science and technology to create sustainable agriculture under the constraints of the current environment and to cope with problems that may arise in the future. Agricultural productions under face of the limitations of environmental problems that takes into account the environmental impact and the use of natural resources properly that is the reason for this training. "Everything changes over time, according to the environment, society, and people, but when there is a good and solid foundation, the adaptation that takes place will go in the right direction", the philosophy of sufficiency economy is the foundation mentioned here.

In Thailand, sustainable agriculture has been practiced by the farmers including young smart farmers across the country. Although there are variations among the farmers practicing sustainable agriculture with respect to types of animal, species of crop and sizes of farm, the focus of these farmers is to produce safe products for the growing middle-class consumers, ensuring the profitable and viable business operation. As a result, more and more scientific and technological knowledges, research and innovation have been applied to agriculture practices and managements with a more easily understood and implemented model by farmers.

Throughout the training courses, the trainees will receive knowledges about concept of SEP, and implementation at individual and community levels. Moreover, hand-on practices in various aspects agricultural practices were also implemented in this training. Policy and practice aspects of environmental management are also provided to the trainees as they are an integral part of sustainable agriculture.

Organization/Institution

Program of Bioscience for Sustainable Agriculture. Faculty of Animal Sciences and Agricultural Technology, Silpakorn University

4. Objectives:

The training course on Sustainable Agriculture and Environmental Management Base on Sufficiency Economy Philosophy (SEP) in Thailand is designed to introduce the concept of SEP to every participant. During 3 weeks of this course, the participants will be reinforced with the understanding and benefits in a utilizable application of SEP under climate change crisis through observing real farming practices, both livestock farming and cropping. The viewpoint of this course will be focusing on the relationship of sufficiency economy to farmers, community, and people's well-being and their impact on the environment-cases study of farmers in Thailand

Specifically, aims of this training course are to:

- 1. Provide the trainees with concept in sustainable development and sustainable agriculture
- 2. Provide the concept of sustainable agriculture that can be applied to agriculture in the current situation affected by climate change
- 3. Train the trainees about the application of techniques used in both producing agricultural produces sustainably and maintaining environment.
- 4. Share experiences among the trainees about conserving natural resources in agricultural production and conducting agricultural practices in their countries, and exchange the concept and idea proposal of appropriate techniques under normal condition and under climate changes crisis in both sustainably producing agricultural products and maintaining environment.
- 5. Participants can transfer information from the training in the manner that is ready to be distributed for farmers in their own countries.

6. Course Contents:

Module 1: Main heading: Sustainable Philosophy (Concept) and Climate Change

- 1. Definition and the importance of sustainable development (SD), sustainable agriculture (SA), types of operation in sustainable agriculture and Sustainable Economy Philosophy (SEP)
- 2. Agriculture and environmental management based on Sufficiency Economy Philosophy
- 3. The situation of global warming, and human alertness to climate change condition and solutions, and its impact on agriculture
- 4. The role of research, science technology, and innovation that supports and promotes agricultural production under normal condition and under climate changes crisis for sustainability to farmers, communities, and society

Module 2: Sustainable development and sustainable agriculture based on SEP at both individual farmers and community levels under climate change crisis (Practice)

- 1. Crop farming (Organic farming, Integrate farming)
- 2. Animal farming (Livestock, Aquatic farming, Fisheries, and Animal welfare)
- 3. Agricultural Community Enterprise (Production and marketing management)
- 4. Science and technology research that promotes productivity in agriculture facing the crisis of climate change

5.1.1 Module 1: Main heading: Sustainable Philosophy (Concept) and Climate change

The idea is to introduce concept, importance and role of SEP in the agricultural sector. This module is planned to present in the beginning of training course because it is able to arouse the trainees understanding in the relationship of SEP in agricultural sector and the use of natural resources. Cost-effective from using natural resources in the agricultural sector and its effect on environment will be also concerned in the programmed. Furthermore, knowledge of natural resources and environmental management which related to SEP will be presented to the trainees.

The module focuses on four topics as follow:

1. Definition and the importance of sustainable development, sustainable agriculture, types of operation in sustainable agriculture and sustainable economy philosophy

- 2. Concept of farming and environmental management within the Sufficiency Economy Philosophy (SEP) approach for individual farmers and communities
- 3. The importance and causes of climate change and global warming, its impact on agriculture, and factors of agriculture affected by these crises
- 4. The importance and necessity of applying science technology and innovative knowledge supports and promotes agricultural production under normal condition and under climate changes crisis for the sustainability of farmers, communities, and society

The purposes of module 1

- 1. To help delegates conceptualize the concepts, character, and the importance of SEP in agricultural practice; and to enable delegates to learn the overview of SEP in Thailand.
- 2. To enable possibility and existence of SEP in the agricultural sector, natural resources and the environment used (in comparison with conventional practices that often use large quantities of chemical substances) and SEP adaptation in agricultural practices.
- 3. Raise awareness of the impact of human actions and agricultural practices on environmental issues and the environmental impact of the return on agricultural production.
- 4. Appreciate the value and benefits of using scientific knowledge, technology and creative innovative knowledge in farming for food security and sustainable agriculture.
- 5. To encourage the knowledge which is necessary for social development in sustainable agriculture, as well as providing knowledge to farmers and communities for cooperative learning and development.

Topics included in Module 1:

- 1. General concept of sustainable development (SD) and sustainable agriculture (SA)
- 2. Sufficiency economy philosophy in support of SD & SA
- 3. Concept of farming and environmental management within the Sufficiency Economy Philosophy (SEP) approach for individual farmers and communities
- 4. Global viewer on natural resource and environment for agriculture, climate change and its impact on agriculture

5. Concept of using research on research, science technology, and innovative in driving agriculture development under normal condition and under climate changes crisis into sustainable development

Module's Expected Outcomes:

- 1. Trainees would be able to understand the concepts of SEP, character, and its essential role in the agricultural practice.
- 2. Trainees would be able to identify the relationship between the use of SEP and natural resources in agriculture, and others.
- 3. Trainees would be able to realize the important role of environment to agriculture and the impact of agriculture on the environment.
- 4. Trainees would be able to realize the impact of agricultural practice to climate changes and the impact of climate changes to agricultural production.
- 5. Trainees would be able to realize the role of research involved with science, technology and innovation to development of agriculture to achieve sustainability goal.

5.1.2 Module 2: Sustainable development and sustainable agriculture based on SEP at both individual farmers and community levels under climate change crisis (Practice)

The concept of adaptation in agricultural management is based on the Sufficiency Economy Philosophy (SEP) which emphasizes self-sufficiency methods. Those methods can produce products that do not affect the environment to promote sustainable agriculture under global warming and climate changes.

Hence, this module will give a clear picture of agricultural adaptation in terms of science and technology or innovation to adapt to production or management. Emphasis is placed on methods or patterns that can be implemented on their own, increasing self-reliance for farming at both the farmers' and community levels. The example of the operation will be descripting in both cropping systems and animal farming.

The module focuses on two topics as follow:

1. Definition and the importance of Sufficiency Economy Philosophy on agricultural practice and management to increase the productivity under global warming and climate change situation; by realizing the importance of environment conservation to promote sustainable development, sustainable agriculture

2. Idea creative to use science and technology knowledge or innovation to adapt to production or management in agriculture by focusing on increasing self-reliance for farming at both the farmers' and community levels.

The purposes of module 2 are:

- 1. To help delegates conceptualize the concepts, character, and relationship between SEP and agricultural practice
- 2. To help delegates to understand the impact of global warming and climate change on agriculture in different agriculture farming, both in cropping and animal husbandry.
- 3. To help delegates observe a proper practice that could be implemented to farmers, both for productivity improvement and quality increasing under sustainability concern under global warming and climate change crisis.
- 4. To arouse delegates efforts in agricultural problem solving for farmers and communities by application of science, technology and innovation from research study.

Topics included in Module 2:

- 1. Agricultural operation in the perspective of farmers and communities
- 2. Agricultural practice and management in different agricultural farming based on SEP by individual farmers and community level
- 3. Researches in science and technology and innovation on agricultural farming under global warming and climate change based on purpose of problems solving for farmers/ communities/ entrepreneurs

Module's Expected Outcomes:

- 1. Trainees would be able to understand the agricultural practice between individual farmers and community level
- 2. Trainees would be able to identify the dependent factors, and suitable practice and management in agriculture farming based on SEP by individual farmers and community level
- 3. Trainees would be able to observe proper and practical implementation as a guideline for farmers under global warming and climate change crisis
- 4. Trainees would be able to realize an importance of science technology, innovation and research on agricultural development to achieve sustainability goal.

5.2 Learning Methodology

5.2.1 Blended-learning from real case study

The training program is constructed on a blended-learning from a real case study in the small farm of farmers in Thailand. Blended learning systems combine the learning from expert persons: who directly have work experiences in each topic presented in the modules; and learning from a real case study in small-scale farms that are operating in accordance with the concept of Sufficiency Economy Philosophy (SEP) in Thailand. Also, an interactive lecture will be facilitated by session experts who can give the overview of comprehensive theoretical viewpoint down to case studies examining.

In addition, there is the laboratory practices for delegates to visualize an important and the role of research, technology and innovation in agriculture in the current situation facing global warming and climate change.

The group working and group discussion will be frequently conducted to enhance understanding of the participants for topics in each module. Moreover, the participants are allowed to ask questions, add comments, and suggestions throughout the program.

The learning methods that will be applied in the duration of the training are:

- 1. Lectures
- 2. Case study presentation after every end of the module
- 3. Laboratory practices for the trainees
- 4. Group discussion/brainstorming
- 5. Individual and group presentation

5.2.2 Study tour

Study tours are one of the important parts of the training methodology utilized by Faculty of Animal Sciences and Agricultural Technology. The objective of the field trips is to enhance knowledge of the participants which are gathered and learned automatically from the excursion. Furthermore, the participants will get a hand-on experience with respect to sustainable agriculture and environmental management conducted by private farms, Thai government agencies in the central region of Thailand, and royal projects.

Destinations in Study Tour:

1) The Huai Sai Royal Development Study Center (HSRD)- is located in Cha-Am district, Phetchaburi. As a result of monoculture in growing pineapple and the subsequent problem of deforestation and soil erosion, King Bhumibol Adulyadej (King Rama IX) of Thailand initiated this center to prevent further degraded forest from occurring. HSRD serves as a knowledge center providing a one-stop service to the farmers who intend to not only adopt the philosophy of sufficiency economy but also practice sustainable agriculture. Vetiver grass has been extensively tested in the center to verify its beneficial characteristics to prevent soil erosion.

2) The National Park & Marine Reserves (NPMR), Royal Project -is located in Banlaem district, Phetchaburi. The project was initiated by H.M. Queen Sirikit to support the fishery activities in the area. This study center also provides knowledge to the local people with respect to techniques in producing sea grape (Caulerpa lentillifera). The area, surrounding the project, has been used in salt farming and salt from this area is one of the major salt outputs in Thailand. NPMR thus also demonstrates the techniques which can be applied to manage saline soil. NPMR highlights the significant characteristic of zero waste farm which maximizes the use of wastes in the farm to reduce the negative impact to the environment.

3) The Royal Laem Phak Bia (RLPB), Phetchaburi province

The project on environmental research and development under Chaipattana Foundation which was initiated by the former king (King Bhumibol). Key concept of the project is to solve the problem from waste water by using nature to treat the problem. And, purpose of RLPB is to provide the ideas and concepts of environment conservation, based on sustainable methods, to anybody who is interested in taking care of environment and ecology.

4) Farmers' farms, communities and private companies in crop farming, animal husbandry and aquaculturally farming

Examples of existing farms, according to the topics presented, in Phetchaburi and its nearby neighbor are used as the case study.

7. Participants Criteria:

Interested participants from following region: Asia, Africa, Pacific, Latin America, and Caribbean

6.1) Applicant Qualifications

- 1) Applicants must be nominated by their governments.
- 2) Applicants have graduated in agriculture with a bachelor's degree or must have been working related to:
 - Agricultural sectors (head of farmers, advisers both in private and government advisory services, senior management representatives from farmer and producer organizations)
 - -Organizations have the mission with civil society organizations who realize the negative effects of agricultural practice to human health and natural resources and seek to suitable practices on sustainable agriculture.
 - * Preferable for applicants who work in rural development.
- 3) Applicants have a recommendation from their employers or header of sectors.
- 4) Applicants have at least 1 year working experience.
- 5) Applicants have an age between 23-45.
- 6) Applicants must have a good command of English in listening, speaking, reading, and writing skills.
- 7) Applicants must be in good health, both physically and mentally.

8. Attendance and Evaluation

Participants who complete the training will receive a certificate based on:

- 1) Real-time class attendance (not less than 80%)
- 2) Interactive class participation
- 3) Presentation and report

All participants are required to prepare;

* 3.1) 3-5 document pages briefing on their countries presentation (15-minute presentation with power point from each participant) which consists of (i) background of your country about geography, socio-economic and natural resources (ii) government policy on agricultural development, economic and environment (iii) guidelines and procedures how to implement sustainable agriculture to participants, countries (iv) problems and challenges, and (v) future program to support sustainable agriculture in their countries (Present individually at the beginning of the program).

- * 3.2) One page analysis of strength and weakness of agriculture in participants' countries (Present individually at the beginning of the program).
- * should be prepared before the program starts
- 3 .3) Proposal presentation: 3-5 document pages briefing on the idea project for their country's presentation (a 15-minute-presentation with power point from each person) which the participants are requested to present individually at the end of the program.

4) Evaluation:

The training program framework interventions will be currently available to the participants to support and develop the agriculture which is based on sustainability in their countries. The participants either satisfy on the inputs, process, and outputs of the program, there is always room for improvement. The detailed recommendations will be summarized at the end of the program. Faculty of Animal Sciences and Agricultural Technology, Silpakorn University will use an evaluation form for the assessment of the training course; Sufficient Economy Philosophy (SEP): Concept and implementation for agricultural development under climate change crisis for food security.

Each module is evaluating to recheck the understanding of participants according to the purposes in each module. At the end of training, it will have training evaluation using the overview which consists of scale questions: measured aspects of the seminar organization, management during training, knowledge gained from training, etc. The rating scale starts from level 5 (being excellent) to level 1 (being needed improvement). Additionally, assessment open-ended questions will be provided for further comments, suggestions and recommendations or ideas they had subsequent to the training course.

9. Venue:

Faculty of Animal Sciences and Agricultural Technology, Silpakorn University, Phetchaburi IT campus, Cha-Am, Phetchaburi, 76120, Thailand

10. Expected Results:

- 1. Trainees are able to implement sustainability concepts for agricultural production by using the philosophy of Sufficiency Economy Philosophy (SEP).
- 2. Trainees have an understanding of characteristics in agricultural practice among trainee member countries.

- 3. Trainees have a proper approach to agricultural farming under the climate change crisis
- 4. Trainees have guidelines for applying research, science technology and innovation to agriculture while still considering sustainability and reducing environmental impact
- 5. There is a possibility to establish networking among participants.
- 6. Trainees are able to increase their ability to work internationally.

11. Organization/Institution:

10.1 Executing Agency

Thailand International Cooperation Agency (TICA), Ministry of Foreign Affairs, the Royal Thai Government, THAILAND

10.2 Implementing Agency

Faculty of Animal Sciences and Agricultural Technology, Silpakorn University

- 10.3 Contact persons (Course Management)
 - a. Assistant Professor Narin Preyavichyapugdee D.V.M., Ph.D. Faculty of Animal Sciences and Agricultural Technology,

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12. Expenditure/Funding:

Thailand International Cooperation Agency (TICA)

Government Complex, Building B (South Zone), 8th Floor,

Chaengwattana Rd. Laksi District, Bangkok 10210 THAILAND

Website: https://tica-thaigov.mfa.go.th/en/index

Email: aitc@mfa.mail.go.th

Schedule for the Training Programme:

"SUFFICIENCY ECONOMY PHILOSOPHY (SEP): CONCEPT AND IMPLEMENTATION FOR AGRICULTURAL DEPLOYMENT UNDER CLIMATE CHANGE CRISIS FOR FOOD SECURITY"

3 May - 3 June 2025

Hua-Hin, Thailand

Date/ Period	Time (Thailand time)	Content	Speaker	Note
DAY1:				
3 May 2025 Saturday	-	Participants arrival		
DAY2:				
5 May 2025	9.00-9.30	Registration		
Monday	9.30-10.00	Program Presentation	Assist. Prof. Dr. Narin	
	1000 1020	64	Preyavichyapugdee	
	10.00-10.30	Overview of the training activities and assignment	Assist. Prof. Dr. Panida Duangkaew	
	10.30-11.00	Coffee break		
	11.00-12.00	Opening speech	Dean of ASAT faculty and TICA president	
	12.00-13.30	Lunch break	•	
	13.30-16.30	Visit ASAT Faculty, SU, IT Campus, Cha-am, Phetchaburi. (Campus tour)	Assist. Prof. Dr. Chaowanee Laosutthipong	
	19.00-21.00	Welcome Dinner/ Shows	Dr. Yupa Pootaeng-on	
Modul	e 1 Main head	ling: Sustainable Philosophy (Cond	cept) and Climate change	e
DAY3:				

6 May 2025 Tuesday	9.00-12.00	Lecture (L-1)	Assoc. Prof. Dr. Somkiat Saithanoo
Tuesday		General Concept of Sustainable Development (SD) and	Somkiet Suthanoo
		Sustainable Agriculture (SA)	
		*Coffee will be served during the	
	12001200	lecture	
	12.00-13.00	Lunch break	
	13.00-16.30	<u>Lecture</u> (L-2)	Assoc. Prof. Dr.
		Sufficiency Economy Philosophy	Somkiat Saithanoo
		(SEP) in Support of SD & SA	
		Concept of Farming and	
		Environmental management within SEP approach for	
		individual farmers and	
		communities	
		*Coffee break will be served	
		during the lecture	
DAY4:			
7 May 2025	9.00-12.00	Lecture (L-3)	Prof. Dr. Metha
Wednesday		-Global viewer on natural	Wanapat
		resource and environment for	
		agriculture, climate change and	
		its impact on agriculture	
		*Coffee break will be served	
	12.00.12.00	during the lecture	
	12.00-13.00	Lunch break	
	13.00-16.30	Lecture (L-4.1)	Prof. Dr. Metha
		-The role of researches in	Wanapat
		Thailand that support and	
		promotes sustainability to	
		farmers, communities and society (Foundation, organization etc.)	
		Lecture (L-4.2)	Assoc. Prof. Dr.
		-Case study: Research, Science	Pramote Paengkoum
		and technology, and innovation in	Dr. Siwaporn
		Thailand to create sustainable for	Paengkoum
		farmers, communities and	Assist. Prof. Dr.
		society// Management of pasture	Chalermpon
		diversity according to sufficiency	Yuangklang
		economy and reduce global warming	
		wammig	
		*Coffee break will be served	
		during the lecture	
DAY5:			

8 May 2025	9.00-12.00	Country Report	Assist. Prof. Dr.
Thursday		*Coffee break will be served	Narin Preyavichyapugdee
		during the activity	Treyavienyapuguee
	12.00-13.00	Lunch break	
	13.00-16.30	Country Report (Continued)	Assist. Prof. Dr.
			Narin
		*Coffee break will be served	Preyavichyapugdee
DAY6:		during the activity	
9 May 2025	9.00-12.00	Country Report (Continued)	Assist. Prof. Dr.
Friday			Narin
		*Coffee break will be served	Preyavichyapugdee
	12.00.12.00	during the activity Lunch break	
	12.00-13.00		
	13.00-16.30	Country Report (Continued)	Assist. Prof. Dr.
		*Coffee break will be served	Narin Preyavichyapugdee
		during the activity	Treyavienyapagaee
DAY7:		during the detivity	
10 May 2025	9.00-12.00	Excursion (1):	Assist. Prof. Dr.
Saturday		The Huai Sai Royal Development	Narin
		Study Center (HSRD), Cha-um, Phetchaburi	Preyavichyapugdee
		1 netenaouri	
		Hui-mai-tai Dam,	
		Raimai-pattana, Cha-um, Phetchaburi	
		1 notonuouri	
		*Coffee break will be served	
	12.00-13.00	during the trip Lunch break	
			Assist. Prof. Dr.
	13.00-16.30	Excursion (2): The Sirindhorn International	Assist. Prof. Dr. Narin
		Environmental Park, Phetchaburi	Preyavichyapugdee
		province	
		Coffee hands see 11 h	
		*Coffee break will be served during the trip	
DAY8:		during the trip	
11 May 2025	9.00-16.30	Free day	
Sunday			
DAY9:			

12 May 2025	9.00-12.00	Focus group for Module 1	Assist. Prof. Dr.
Monday		*Coffee break will be served	Chaowanee
		during the activity	Laosutthipong
	12.00-13.00	Lunch break	
	13.00-16.30	Evaluation for Module 1	Assist. Prof. Dr.
			Chaowanee
		*Coffee break will be served	Laosutthipong
		during the activity	
		levelopment and sustainable agric nd community levels under climat	
DAY10:			
13 May 2025	9.00-12.00	<u>Lecture</u> (L-5)	Assoc. Prof. Dr.
Tuesday		Agricultural operation in the	Pramote Paengkoum
		perspective of farmers and	
		communities based on SEP	
		*Coffee will be served during the	
		lecture	
	12.00-13.00	Lunch break	
	13.00-16.30	Lecture (L-6)	Dr. Siwaporn
		Farmers groups for creating	Paengkoum /
		bargaining power and sustainable	Assist. Prof. Dr.
		production of crop farming,	Pattaraporn Poommarin/
		livestock farming and aquatic farming	Asisstant Prof. Dr.
		laming	Cherdpong Kheerajit
		*Coffee break will be served	
		during the lecture	
DAY11:			
14 May 2025	9.00-12.00	Laboratory Practice:	Dr. Krissana Ruang-
Thursday		The black soldier fly: A small	Rit
		insect, a big hero, transforming organic waste into a sustainable	
		solution	
		*Coffee break will be served	
		during the activity	
	12.00-13.00	Lunch break	
	13.00-16.30	Laboratory Practice :	Assist. Prof. Dr.
		Management of pasture diversity	Saranpong
		according to sufficiency economy	Thongruang
		and reduce global warming	

		*Coffee break will be served	
		during the activity	
DAY12:			
15 May	9.00-12.00	<u>Lecture</u> (L-7)	Assist. Prof. Dr.
2025		Blue economy the way to	Anawat Boonyapakdee
Wednesday		overcome food security and	
		global warming	
		*Coffee will be served during the	
		lecture	
	12.00-13.00	Lunch break	
	13.00-16.30	Lecture (L-8)	Dr. Thadthong
		The Role of THT Farmer	Bhrammanee
		Academy in Household	
		Empowerment and Food Security	
		through the Sufficiency Economy Philosophy	
		THT Learning Base: Thonghathai	
		Learning Base	
		*Coffee will be served during the	
		lecture	
DAY13:	0.00.12.00	T	
16 May 2025	9.00-12.00	<u>Laboratory Practice</u>	Mr. Sathit Boonnom
Friday		Aquatic Hydroponic	
		*Coffee will be served during the	
		activity	
		-	
	12.00-13.00	Lunch break	
	13.00-16.30	Laboratory Practice:	Mr. Sathit Boonnom
		Aquatic Hydroponic	
		"Coffee breek will be served	
		*Coffee break will be served	
DAV14·		*Coffee break will be served during the activity	
DAY14: 17 May 2025	9.00-16.00	during the activity	Assist. Prof. Dr.
DAY14: 17 May 2025 Saturday	9.00-16.00	during the activity Culture Tour/ City Tour/ Bird	Narin
17 May 2025	9.00-16.00	during the activity	Narin Preyavichyapugdee/
17 May 2025	9.00-16.00	during the activity Culture Tour/ City Tour/ Bird watching Phetchaburi Lunch and coffee break will be	Narin Preyavichyapugdee/ Assist. Prof. Dr.
17 May 2025	9.00-16.00	during the activity Culture Tour/ City Tour/ Bird watching Phetchaburi	Narin Preyavichyapugdee/
17 May 2025 Saturday	9.00-16.00	during the activity Culture Tour/ City Tour/ Bird watching Phetchaburi Lunch and coffee break will be	Narin Preyavichyapugdee/ Assist. Prof. Dr.
17 May 2025 Saturday DAY15:		Culture Tour/City Tour/Bird watching Phetchaburi Lunch and coffee break will be served during the tour	Narin Preyavichyapugdee/ Assist. Prof. Dr.
17 May 2025 Saturday	9.00-16.00	during the activity Culture Tour/ City Tour/ Bird watching Phetchaburi Lunch and coffee break will be	Narin Preyavichyapugdee/ Assist. Prof. Dr.

19 May 2025	9.00-12.00	Excursion (3):	Assist. Prof. Dr.
Monday	7.00-12.00	Visiting Organic Turkey	Janjira Sittiya
		Community Enterprise Group,	
		Ratchaburi province.	
		itaicimonii piovince.	
		*Coffee break will be served	
		during the trip	
	12.00-13.00	Lunch break	
	13.00-16.30	Excursion (4):	Assist. Prof. Dr.
		4.1 Visiting Swine deep bed farm	Pattaraporn
		and Free-range poultry farm in a	Poommarin
		bamboo plantation, Ratchaburi	
		Province	
		4.2 Visiting Organic egg chicken	
		farm (Bann Suan San Sook-	
		Organic-HarvestLiFEth Farm),	
		Ratchaburi province	
		· · · · · · · · · · · · · · · · · · ·	
		*Coffee break will be served	
		during the trip	
DAY17:		Ι	
20 May 2025	9.00-12.00	Excursion (5):	Mr. Sathit Boonnom
Tuesday		5.1 Visiting Farmers' fish farming	
		(Striped snake-head fish, snake	
		skin gourami, and giant snake-	
		head fish), Phetchaburi province	
		5.2 Visiting Brine shrimp	
		(Artemia) farm, Phetchaburi	
		province (Small scale farmers)	
		province (small seale farmers)	
		*Coffee break will be served	
		during the trip	
	12.00-13.00	Lunch break	
	13.00-16.30	Excursion (6):	Mr. Sathit Boonnom
		Visiting Manit Aquaculture	
		Company Limited	
		Aquaculture farm, Nile Tilapia	
		and pacific white shrimp or white	
		leg shrimp (Large Scale	
		Aquaculture), Phetchaburi	
		province	

		*Coffee break will be served	T
DAY18:		during the trip	
21 May 2025	9.00-12.00	Focus group for Module 2	Mr. Sathit Boonnom
Wednesday	9.00-12.00	*Coffee break will be served	Wif. Satilit Boolilloill
		during the activity	
	12.00-13.00	Lunch break	
	13.00-16.30	Focus group for Module 2	Mr. Sathit Boonnom
	13.00-10.30	rocus group for Wiodule 2	MI. Saulit Boolillolli
		*Coffee break will be served	
		during the activity	
DAY19:		daring the detivity	
22 May 2025	9.00-12.00	Lecture (L-9)	Dr. Alisa Kongjaimun
Thursday		Genetic Diversity in Plants and	Yoshida
		Building Food Security through the Sufficiency Economy	
		Philosophy	
		*Coffee will be served during the	
		lecture	
	12.00-13.00	Lunch break	
	13.00-16.30	Lecture (L-10)	Assist. Prof. Dr. Phisit
		Smart Farming in a Changing	Suvarnaphaet
		Climate:	
		*Coffee break will be served	
		during the lecture	
DAY20:	1		
23 May 2025	9.00-12.00	Laboratory Practice :	Assist. Prof. Dr. Phisit
Friday		Design thinking	Suvarnaphaet
		*Coffee break will be served	
		during the activity	
	12.00-13.00	Lunch break	
			A B B
	13.00-16.30	Laboratory Practice:	Assist. Prof. Dr. Phisit
		Design thinking	Suvarnaphaet
		Operator: *Coffee break will be	
		served during the activity	
DAY21:	1		
24 May 2025	9.00-12.00	Laboratory Practice :	Assist. Prof. Dr.
Saturday		Plant production	Sararat Monkhung /
			Dr.Suphavadee
		*Coffee break will be served	Chimtong
		during the activity	

	12.00-13.00	Lunch break	
	13.00-16.30	Harmonizing Natural Resource Management with Social Contexts Thonghathai	Dr. Thadthong Bhrammanee
		THT Learning Base: Thonghathai Learning Base	
DAY22:	I a a a 4 5 a a	I	
25 May 2025 Sunday	9.00-16.00	Free day	
DAY23:	T	,	,
26 May 2025 Monday	9.00-12.00	Lecture (L-11) Bacillus megaterium (BM) for sustainable agriculture and food security under climate change crisis *Coffee break will be served	Assist. Prof. Dr. Pawat Sereetrakul
		during the activity	
	12.00-13.00	Lunch break	
	13.00-16.30	Lecture (L-11) Adaptation and Mitigation: Pathways to Tackling Food Insecurity *Coffee break will be served during the activity	Dr. Umarat Santisukkasaem
DAY24:	ı		
27 May 2025 Tuesday	9.00-12.00	Excursion (7): Managing zero waste sea farm at Royal Project: The National Park and Marine Reserves, Phetchaburi *Coffee break will be served	Assist. Prof. Dr. Narin Preyavichyapugdee
		during the trip	
	12.00-13.00	Lunch break	
	13.00-16.30	Excursion (8): The Royal Laem Phak Bia (RLPB) project on environmental research and development,	Assist. Prof. Dr. Narin Preyavichyapugdee

	T	Ct	
		Chaipattana Foundation,	
		Phetchaburi province	
		*Coffee break will be served	
		during the trip	
		* Further details provided on the	
		last page	
DAY25:	1	T	
28 May 2025	9.00-12.00	Excursion (9):	Assist. Prof. Dr.
Wednesday		Farm-a-jarn	Pawat Sereetrakul
		Prajuabkirikhan province	
		*Coffee break will be served	
		during the trip	
	12.00-13.00	Lunch break	
	13.00-16.30	Excursion (10)	Dr. Sararat Monkhung
	13.00-10.30	Visiting Young Smart Farmer	Di. Sararat Wolkilulig
		Academy, Phetchaburi province	
		F. C. M. C.	
		*Coffee break will be served	
		during the trip	
DAY26:	10001200		
29 May 2025 Wednesday	9.00-12.00	Focus group for Module 2	Dr. Sararat Monkhung
Wednesday		*Coffee break will be served	
		during the activity	
	12.00-13.00	Lunch break	
	13.00-16.30	Evaluation for Module 2	Dr. Sararat Monkhung
	13.00-10.30	Evaluation for Module 2	Di. Sararat Wonkhung
		*Coffee break will be served	
		during the activity	
DAY27:	1		
30 May 2025	9.00-12.00	Participant proposal	Assist. Prof. Dr.
Friday		presentation	Narin Preyavichyapugdee
		*Coffee break will be served	Treyavienyapuguee
		during the activity	
	12.00-13.00	Lunch break	
	13.00-16.30	Participant proposal	Assist. Prof. Dr.
	15.00 10.50	presentation	Narin
			Preyavichyapugdee
		*Coffee break will be served	
D A X/OC		during the activity	
DAY28:	0.00.12.00	Doutisin ant	Agaigt Dagf Da
31 May 2025 Saturday	9.00-12.00	Participant proposal presentation	Assist. Prof. Dr. Narin
Saturday		presentation	Preyavichyapugdee
			1 reyavienyapuguee

		*Coffee break will be served		
		during the activity		
	12.00-13.00	Lunch break		
	13.00-16.30	Participant proposal presentation	Assist. Prof. Dr. Narin Preyavichyapugdee	
		*Coffee break will be served		
		during the activity		
DAY29:	•			
1 Jun 2025 Sunday	9.00-16.00	Free day		
DAY30:	•			
2 Jun 2025	9.00-12.00	Concluding remark and Closing ceremony	Assist. Prof. Dr. Narin Preyavichyapugdee	
	12.00-13.00	Lunch break		
DAY31:				