

**Module 1-Value Chain Management
at Chiang Mai University**

Annex 2 Programme

| Arrival date of participants: August 7, 2018 | | | |
|--|-------------------------------------|---|--|
| Overview of the sessions: | | | |
| Date | Time | Topics | Resource persons |
| Wednesday 8 August | 8:45 -10:15 | Registration of participants | CMU |
| | coffee break | Official opening, introducing the summer school objectives and Introducing the participants | Chutima, Pornsiri and Petra short speech |
| | 10:30 - 12:00 | A short presentation about CULS, and the projects in Asia | Students presentation about the Czech Republic, CULS, each participant |
| | | Each student will introduce themselves and their background (maximum 10 mins/person with ppt) | Students presentation about Thailand, CMU, each participant |
| | 13:30 - 14:30 | Ice breaking: a guided trip CMU | CMU organize, CULS participate |
| | coffee break 14:45 - 16:30 | Teambuilding activities (management game "African village") | Petra CULS |
| Thursday 9 August | 8:45 -10:15 | Value chain management and Management | Petra CULS |
| | coffee break 10:30 - 12:00 | Market orientation of Thailand markets | Pornsiri CMU |
| | 13.00-16.30 | Local market visit | CMU organize, CULS participate |
| Friday 10 August | 8:45 -10:15 | Postharvest management for agribusiness Food Quality | Olga CULS |
| | coffee break | | |
| | 10:30 - 12:00 | | |

| | | | |
|-----------------------|---------------|---|--|
| | 13:00 - 16:30 | Visit the Royal Project Produce Centre | CMU organize, CULS participate |
| Saturday 11 August | 8:45 -10:15 | Problem formulation, Methods and tools (Sampling) | Olga and Milda CULS |
| | coffee break | | |
| | 10:30 - 12:00 | Format of the research proposal, Literature search | Olga and Milda CULS |
| | 13:00 - 14:30 | Instructions for scientific news | Olga and Milda CULS |
| | coffee break | | |
| | 14:45 - 16:30 | Students prepare own scientific news | Students own preparation |
| Day off | | | |
| Monday 13 August | 8:45 -10:15 | Preparation of the planning of data collection for the first round of interviews (interview guide) and team work during the survey (e.g. how to work with an interpreter and how to interpret, how to conduct interviews as a group (e.g. task distribution among different group members), how to tackle cultural differences within the groups. | Petra and Milda CULS |
| | coffee break | | |
| | 10:30 - 12:00 | Scientific news discussions | Olga and Milda CULS |
| | 13:00 - 14:30 | Scientific news discussions | Olga and Milda CULS |
| | coffee break | | |
| | 14:45 - 16:30 | Students in teams prepare set of questions for interviews | Team work: preparation for data collection |

| | | | |
|---------------------|--|--|---|
| Tuesday 14 August | 9.00-12.00 | Field trip to the melon farm and each group interview farmer | Team work: data collection from sellers and producers |
| | 13.00 – 16.30 | Students in teams making report from interview | Team work: data analysis |
| | | | |
| Wednesday 15 August | 8:45 -10:15 | Marketing research methods (consumer behavior) | Petra CULS |
| | coffee break 10:30 - 12:00 | Preparation for field research | Team work: preparation for data collection |
| | 13:00 - 14:30 coffee break 14:45 - 16:30 | Economic evaluation and prepare for data collection according to research question have to related to economic point of view | Pornsiri CMU |
| Thursday 16 August | whole day | Field research: students in teams visit different markets and collect data with consumers | Team work: data collection from consumers |
| Friday 17 August | whole day | | |
| Saturday 18 August | whole day | | |
| Sunday 19 August | | Day off | |
| Monday 20 August | 8:45 -10:15 | Reflection from field research - feedback from data collection by teams | Petra and Olga CULS |
| | coffee break 10:30 - 12:00 | Discussion about collected data, how to analyse it | |
| | 13:00 - 14:30 | Debate on selected topics (two teams, controversial topic, strong arguments) | Petra and Olga CULS |

| | | | |
|------------------------|---|--|--|
| | coffee break 14:45 - 16:30 | | |
| Tuesday 21 August | 8:45 -10:15 coffee break 10:30 - 12:00 | Scientific writing - poster, ppt presentation | Olga CULS Olga CULS |
| | 13:00 - 14:30 coffee break 14:45 - 16:30 | Poster preparation by teams | Team work: poster preparation |
| Wednesday 22 August | 8:45 -10:15 coffee break 10:30 - 12:00 | Scientific writing - how to write an article/thesis | Petra and Olga CULS |
| | 13:00 - 14:30 coffee break 14:45 - 16:30 | Poster presentations by teams | Team work: poster presentation |
| Thursday 23 August | 8:45 -10:15 coffee break 10:30 - 12:00 | Preparation for the final report (manuscript including introduction, materials and methods, results, discussions and conclusions) | Team work: final report preparation |
| | 13:00 - 14:30 coffee break 14:45 - 16:30 | Preparation for the final report (manuscript including introduction, materials and methods, results, discussions and conclusions) | |
| Friday 24 August | 8:45 -10:15 coffee break | Presentation of the results by students' teams- evaluation by staff | Petra and Olga CULS |

| | | | |
|-----------------------|---|--|--|
| | 10:30 - 12:00 | | |
| | 13:00 - 14:30 coffee break 14:45 - 16:30 | Evaluation of the module, closure of the module with award certification ceremony | Pornsiri CMU, Chutima and Petra and Olga CULS |
| Saturday 25 August | whole day | Field trip to the Royal Project Station : Intanon station | CMU |
| Sunday 26 August | whole day | Field trip to the Royal Project Station: Pangda station | CMU |

**Module 2 - Environmental/Ecosystem
for Sustainable Agriculture
at Khon Kaen University**



ERASMUS+

HIGHER EDUCATION – INTERNATIONAL CAPACITY BUILDING
PROGRAM

Participatory and Integrative Support for Agricultural Initiative

Module 2 Environmental/Ecosystem for Sustainable Agriculture



Module 2 –Production Environment

- 1. Scope** Environmental/Ecosystem for Sustainable Agriculture
- 2. Team**
Leader: Khon Kaen University
Members: 1. IRD (Agrinatura)/SupAgro
2. Helsinki University
- 3. Period:** 12nd November – 1st December 2018
- 4. General Learning Objectives**
- 1) To understand the effect of agriculture practice on environment
 - 2) To identify the various of cropping systems for the sustainable agriculture

| Date | Time | Topics | Resource persons |
|------------------------|--------------|---|------------------|
| Thursday (8/11/18)* | All day | Arrival date of professor team | KKU staff |
| Friday (9/11/18) | 9:00 – 16:00 | Meeting group and discussion on the course outline and topic activities | KKU staff |
| Saturday (10/11/18) | 9:00 – 16:00 | Visit some exemplified farms | KKU staff |
| Sunday (11/11/18) | All day | Arrival date of students (16 Thai students + 2 to 5 European students) | KKU staff |

*EXPECTING DATE AND CAN BE CHANGED

*Session 1 (week 1): Nov 12nd-17th, 2018

Session 1 Ecosystems service for sustainable agriculture in a challenging environment (week 1)

Learning Objective(s):

- 1) To understand the common farming systems in northeast Thailand
- 2) To develop capacity for building a farming systems appraisal
 - 3) To be able to identify and characterize a farming system at the farm scale, i.e; a set of agricultural activities combined and interrelated with each other (cropping systems and animal rearing systems), guided by coherent decision taking)
 - 4) To be able to identify farming properties of each farming type (productivity, profitability, autonomy and resilience)

Keywords: plant production, animal production, farming system, cropping system, animal husbandry system, environment, farmer's survey, Participatory Rural Appraisal, farm typology

(Department of Agricultural extension and Agricultural systems, Department of Agricultural Economics)

| Date | Time | Topics | Resource persons |
|--------|------------|---|---|
| Monday | 8:30-9:00 | Opening ceremony | Dean of Agriculture, KKU |
| | 9:00-12:00 | Introduction on sustainability in North-East Thailand: Challenge issues on sustainable agriculture (<u>Lecture</u>) | Assoc. Prof. Dr. Suchint Simaraks, Program on System approaches in Agriculture for Sustainable Development, |

| | | | |
|-----------|-------------|--|---|
| | | | KKU |
| | 13:00-16:00 | Concept and methodology of farmers' survey, Participatory Rural Appraisal and System analysis (<u>Lecture</u>) | Assist. Prof. Dr. Satit Adaito (Department of Agricultural Economics, KKU), Dr. Benedicte Chambon (CIRAD) Dr. Sukanlaya Cheunkwan and Dr. Arunee Promkhambut, Department of Agricultural Extension and Agricultural Systems, KKU) and Dr. Didier Pillot (SupAgro, France) |
| Tuesday | 9:00-12:00 | Student prepare simple questionnaire for farming system identification of farmers | Assist. Prof. Dr. Satit Adito (Department of Agricultural Economics, KKU) and Dr. Didier Pillot (SupAgro, France) |
| | 13:00-16:00 | Students prepare interview guide and tools for farming system identification | Dr. Benedicte Chambon (CIRAD) Dr. Sukanlaya Cheunkwan and Dr. Arunee Promkhambut, Department of Agricultural Extension and Agricultural Systems, KKU) and Dr. Didier Pillot (SupAgro, France) |
| Wednesday | 9:00-12:00 | Farming systems identification survey 6 groups of 3 to 4 students: 3 work in zone 1 (Undulating area), 3 work in zone 2 (Lowland area). | KKU/IRD/SupAgro |
| | 13:00-16:00 | | KKU/IRD/SupAgro |
| Thursday | 9:00-12:00 | In two days, each group surveys 2 households, both "integrated" and "conventional" | KKU/IRD/SupAgro |
| | 13:00-16:00 | | KKU/IRD/SupAgro |
| Friday | 9:00-12:00 | Discussion on cases studies (organic/integrated vs conventional farming systems) | KKU/IRD/SupAgro |
| | 13:00-16:00 | Discussion on cases studies (organic/integrated vs conventional farming systems) | KKU/IRD/SupAgro |
| Saturday | 9.00-16.00 | Analyses data and group discussion | KKU/IRD/SupAgro |

*Session 2 (week 2): Nov 19st-24th, 2018

Session 2 Ecosystems service for sustainable agriculture in a challenging of environments (week 2)

Learning Objective (s):

- 1) To learn on the tools for evaluate of environment conditions
- 2) To analyze the sustainable agriculture systems

Keywords: plant production, soil quality, biodiversity, macro and micro fauna

(Department of Soil Science and Environment, Department of Entomology, Department of Horticulture, Department of Plant Pathology)

| Date | Time | Topics | Resource persons |
|-----------|-------------|---|--|
| Monday | 9:00-12:00 | Integrative soil quality assessment & Functional biodiversity (<u>Lecture</u>) | KKU/IRD/SupAgro (Dr. Chuleemas/ Dr. Phruaksa/Dr. Alain) |
| | 13:00-16:00 | Biofunctools(<u>Lecture</u>) | KKU/IRD/SupAgro (Dr. Phruaksa/Dr. Alain) |
| Tuesday | 9:00-12:00 | Practice the tools in the field (Biofunctools): Soil properties analysis [2 selected farms (same farm as session 1-1)] - Split students into two groups - Each group will take responsibility for each farm - Using Biofunctool for monitoring carbon transformation (litter decomposition, in situ respiration), soil nutrient, soil moisture and pH analyses, soil structure analysis, macro-fauna population etc. | KKU/IRD (Dr. Phruaksa/Dr. Alain) |
| | 13:00-16:00 | Practice the tools in the field (Biofunctools): Soil properties analysis [2 selected farms (same farm as session 1-1)] | KKU/IRD (Dr. Phruaksa/Dr. Alain) |
| Wednesday | 9:00-12:00 | - Practice the tools in the field (Biofunctools): Soil properties analysis - Insect and micro-organism indicators for environment [2 selected farms (same farm as session 1-1)] | KKU/IRD (Dr. Phruaksa/Dr. Alain/ Dr. Anan W./ Dr. Chutinan) |
| | 13:00-16:00 | - Practice the tools in the field (Biofunctools): Soil properties analysis - Insect and micro-organism indicators for environment [2 selected farms (same farm as session 1-1)] | KKU/IRD (Dr. Phruaksa/Dr. Alain/ Dr. Anan W./ Dr. Chutinan) |
| Thursday | 9:00-12:00 | Crops effect on water cycling (<u>Lecture</u>) | KKU/IRD (Dr. Supat/Dr. Mallika) |
| | 13:00-16:00 | Analyses data and preparing the presentation on agricultural effect on environments | KKU/IRD/SupAgro/ All team |
| Friday | 9:00-16:00 | Analyses data and preparing the presentation on agricultural effect on environments | KKU/IRD/SupAgro/ All team |
| Saturday | 9.00-16.00 | Group or individual presentation and | KKU/IRD/SupAgro/ |

| | | |
|--|------------|----------|
| | discussion | All team |
|--|------------|----------|

| *Session 3 (week 3): Nov 26 th -1 st , 2018 | | | |
|---|-------------|---|--|
| Session 3 Utilizing genetic resources for sustainable agriculture (week 3) | | | |
| Learning Objective(s): | | | |
| 1) To understand on the animal production in term of sustainable agriculture | | | |
| 2) To understand of the importance of the genetic resources for sustainable agriculture | | | |
| Keywords: Genetic resource, animal production, fishery production | | | |
| (Department of Animal Science, Department of Fishery) | | | |
| Date | Time | Topics | Resource persons |
| Monday | 9:00-11:00 | Integrated Pest management and case study (<u>Lecture</u>) | KKU/Helsinki U. (Prof. Heikki and Prof. Ingeborg) |
| | 11:00-12:00 | Genetic resource for animal production in sustainable agriculture (<u>Lecture</u>) | KKU/IRD (Dr. Theerachai/Dean) |
| | 13.00-14.00 | Genetic resource for animal production in sustainable agriculture (<u>Lecture</u>)(Cont.) | KKU/IRD (Dr. Theerachai/Dean) |
| | 14:00-16:00 | Genetic resource for crop production in sustainable agriculture (<u>Lecture</u>) | KKU/IRD (Dr. Jirawat) |
| Tuesday | 9:00-12:00 | Animal and fishery productions in northeast Thailand (<u>Lecture</u>) | KKU/IRD/SupAgro (Dr. Penpan/Dr. Theerachai) |
| | 13:00-16:00 | Visit the integrated animal/fishery farm in KKU (Livestock unit/fishery farm unit) | KKU/IRD/SupAgro (Dr. Penpan/Dr. Theerachai) |
| Wednesday | 9:00-12:00 | Visit the animal production in the small farmer scale (Farm 1) | KKU/IRD/SubAgro (Dr. Theerachai) |
| | 13:00-16:00 | Visit the animal production in the commercial scale (Farm 2) | KKU/IRD/SupAgro (Dr. Theerachai) |
| Thursday | 9:00-12:00 | Visit the fishery production in the farmer scale (Farm 3) | KKU/IRD/SupAgro (Dr. Penpan) |
| | 13:00-16:00 | Visit the fishery production in the commercial scale (Farm 4) | KKU/IRD/SupAgro (Dr. Penpan) |
| Friday | 9:00-12:00 | Life cycle assessment (<u>Lecture</u>) | KKU/IRD/SupAgro |
| | 13:00-16:00 | Discussion and conclusion in whole Module 2 | KKU/IRD/SupAgro/ Helsinki U./ All team |
| Saturday | 9:00-12:00 | Individual assessment of student | Dr. Didier and team |

* Remark: number of session depends on each module design

**Module 3 – Challenges and opportunities
for Sustainable Agricultural Production
at Kasetsart University**

Participatory and Integrative Support for Agricultural Initiatives (PISAI)

Module 3 – Challenges and opportunities for Sustainable Agricultural Production

1. Scope The students are placed in a position of actively analysing the agricultural production systems, and their results and mechanisms in the central areas of Thailand. A series of lectures before the fieldwork will support this research by providing necessary tools, methods and knowledge.

Two “periods” or “sessions” are identified along the whole duration of the module.

During the first week –from March 17 to March 23, 2019 at the students will be based at the Faculty of Agriculture, Kasetsart University. Students will be allocated in groups and prepare the fieldwork by investigating the specific conditions of agriculture in the Eastern part of the Central Plain, and identifying key challenges for sustainable agriculture. They will develop research questions and associated methodological approaches to to be used during the second period.

The second part of the module takes place at in Pak Chong District, Nakhon Rachasrima Province (around two and half hours from Bangkok), from March 24 to April 5, 2019. 4 villages have been identified to represent the diversity of the situations in the district : one in Moo 5 Ban Nong Makrut (field crops, fruits), Nong-Nam-Deang Subdistrict, two in Klang Dong Subdistrict (Moo 2 Ban Bun Bandan, Moo 14 Ban Chonlaprathan) (field crops, fruits) and one in Moo 10 Ban Takhian Thong, Khanong Phra Subdistrict (more dairy). Students will be accommodated in dormitories at the National Corn and Sorghum Research Center (Suwan farm). During this second period, students will continue working in small groups to assess the diverse farming systems that are represented in the area and identify the different options for their sustainable development.

At the end of the field course students will present their findings to the local organisations and local farmers.

2. Team Leader: Kasetsart University (Dr Buncha Chinnasri)
 Member: 1. University of Copenhagen (Dr Thilde Bech Bruun)
 2. Montpellier SupAgro (Dr Didier Pillot)

3. Period 17 March, 2019 to 5 April 2019 (Three weeks)

4. General Learning Objectives

- 1) Describe and define central concepts and terms within farming system analysis (agricultural production)
- 2) Critically discuss theoretical and methodological approaches to interdisciplinary studies of agricultural production
- 3) Critically evaluate contemporary theories within sustainable land use and agricultural intensification
- 4) Translate theoretical knowledge into practical solutions that are suitable for a given context
- 5) Select relevant methods and construct a research plan for investigating a real-life “problem” related to agricultural production
- 6) Apply selected methods in the field
- 7) Analyse and report collected field data
- 8) Reflect on research plan and reliability of collected data
- 9) Generalize and reflect on results observed/obtained at the case level to broader issues of agricultural production, sustainability, self-sufficiency, natural resource management

| Arrival date of participants: | | | |
|--|-------------|---|--------------------------------------|
| <p>*Session 1 (At university) : 8 days (in Bangkok) Learning Objective(s):</p> <ol style="list-style-type: none"> 1) Breaking the ice between participants from different origins and being able to identify the capacities of the other students 2) General introduction to the study site 3) Get the skills for an analysis of the climatic, environmental, socio-economic constraints of crop production 4) Get the skills for soils observation and distinction (classification), agricultural intensification theories, adaptation theories, farmers’ decision making processes, food security and safety issues | | | |
| Date | Time | Topics | Resource persons/Remarks |
| Day 1 (Sunday 17 Mar 2019) | | Arrival of students and faculty members at Kasetsart University, Bangkok Campus. PISAI students will stay at the dormitory of the Faculty of Forestry (60 Year Anniversary Building). Professors will stay at KU Home | Team from the Faculty of Agriculture |

| Date | Time | Topics | Resource persons |
|--|--|---|--|
| <p style="text-align: center;">Day 2 (Monday 18 Mar 2019)</p> | <p style="text-align: center;">9:00- 16:00</p> | <p>09:30-10:30 Presentation of the participants (students and staffs, observers). General objective of the research. Discussion of the overall organisation of the programme. First identification of the main knowledge domains for which information should be gathered and processed before fieldwork (by groups)</p> <p>10:30-11:00 Coffee Break</p> <p>11:00-12:00 Invited Lecture: Agricultural Policies in Thailand: Past, Present, and Future (By Dr. Nipon Poapongsakorn, Thailand Development Research Institute, TDRI)</p> <p>12:00-13:30 Lunch</p> <p>Afternoon: 13:30-14:30 Invited Lecture: National Farmers Council: Significant Roles in Agricultural Development in Thailand (By Mr. Papat Panyachartrak, Chairman of the Thailand National Farmers Council</p> <p>14:30-15:00 Coffee Break</p> <p>15:00-16:00 Presentation of the survey area, Pak Chong District (Nakhon Rachasrima Province) (by Dr Buncha Chinnasri). Distribution of the materials for analysis (satellite images, maps, access to information sources,...) Group work: Updating the general research objective and list of knowledge domains to be explored. Feedback of the group work, synthesis and setting up the final groups</p> | <p>at Wachiranusorn Building Room 302 (Day 2-Day6)</p> <p>Didier, Thilde, Buncha, Team from the Faculty of Agriculture</p> |
| <p style="text-align: center;">Day 3 (Tuesday 19 Mar 2019)</p> | <p style="text-align: center;">9:00- 16:00</p> | <p>Morning Group work on identified knowledge domains (Whole morning)</p> <p>Afternoon Invited guest talk (Faculty members from the Faculty of Science): Identifying and understanding the climate constraints. Methodological questions (Dr.Prayad Nantasin, Dr.Panu Trivej...)</p> <p>Discussion</p> <p>Break Invited guest talk: The formation of the central plain of Thailand and Chao Praya Basin. Consequences on topography and soils diversity (Dr.Prayad Nantasin, Dr.Panu Trivej...)</p> | <p>Didier, Thilde, Buncha, Team from the Faculties of Science and Agriculture</p> |

| Date | Time | Topics | Resource persons |
|-------------------------------------|----------------|--|--|
| Day 4 (Wednesday 20 Mar 2019) | 9:00- 16:00 | <p>Morning Groupwork : the steps of the systems diagnosis: landscape analysis, historical surveys, identification of stakeholders strategies (Didier) Group work continuation</p> <p>Afternoon Group work continuation 3:30 PM : General session - Feedback from the groups</p> | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 5 (Thursday 21 Mar 2019) | 9:00- 16:00 | <p>Morning Introductions to farmer's decision making Environmental versus social and economic constraints. (Thilde)</p> <p>Exercises</p> <p>Continuation of the groupwork</p> | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 6 (Friday 22 Mar 2019) | 9:00- 16:00 | <p>Morning Economic assessment of the utilization of natural resources: Foreseeing impact of the current transformations in the next 10 to 30 years (by Assist. Prof. Dr. Penporn Janekarnkij, Faculty of Economics)</p> <p>Afternoon Presentation of the results of the groupworks by the groups Fine tuning the preliminary research questions Preparation of the tools (observation guide, questionnaires, ...) by groups</p> | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 7 23 March (Saturday) | | Free Time | |
| Day 8 24 March (Sunday) | | <p>Morning: Free Time (National Election Day): Casting ballots to elect new Thai Prime Minister!!!!</p> <p>13: 00 Leave for Pak Chong District, Nakhon Rachasima Province via bus transportation at Wachiranusorn Building/ the Faculty of Forestry (60 Year Anniversary Building)</p> | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |

Session 2 (In the field): 12 days in Nakhon Rachasrima Province

Learning Objective(s):

- 1) Be able to identify the diversity of the natural conditions of agriculture (climate, soils, water)
- 2) Be able to identify, characterise and assess the various cropping systems (identification and broad characterisation)
- 3) Be able to identify constraints to agricultural production in the study area
- 4) To identify the interactions within and between systems
- 5) Be able to conduct field based research according to a research plan
- 6) Be able to assess challenges and opportunities for sustainable agricultural production in the study site

| Date | Time | Topics | Resource persons |
|---------------------------------------|------------|---|--|
| Day 9 (Monday 25 Mar 2019) | 9:00-17:00 | <p>Morning (at Suwan farm)</p> <p>Meeting with local government officials e.g. agricultural extensionists in the areas, district and sub-district headmen etc.</p> <p>General observation of the area (bus tour)</p> <p>Lunch break</p> <p>Afternoon (Pak Chong):</p> <p>Landscape/land use observation and analysis</p> <p>Transect walks by groups in Pak Chong</p> <p>After dinner</p> <p>Analysing the data (per group) and preparing the feedback for the next morning</p> | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 10 (Tuesday 26 Mar 2019) | 9:00-17:00 | <p>Morning (at Suwan farm)</p> <p>Feedback session on landscape analysis</p> <p>Preparation of the historical surveys about the transformations of the agricultural activities in the area</p> <p>Lunch break</p> <p>Afternoon (Pak Chong):</p> <p>Historical surveys</p> <p>Identification of the cropping systems, cropping calendars, value chains involved, problems and questions raised..., Interviews, questionnaires, land use history timeline</p> <p>After dinner (at Suwan farm): Analysing the data (per group) and preparing the feedback for the next morning</p> | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |

| Date | Time | Topics | Resource persons |
|-------------------------------------|--|---|--|
| Day 11 Wednesday 27 Mar 2019 | 9:00- 17:00 | Feedback on history and problem identification Lunchbreak Afternoon (Pak Chong) Organising the investigation of problems identified (in groups) | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 12 Thursday 28 March | 9:00- 17:00 | Whole day(Pak Chong) Investigation of problems identified (in groups) | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 13 Friday 29 March | 9:00- 17:00 | Whole day (Pak Chong) Investigation on the problems identified (in groups) | Didier, Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 14 Saturday 31 March 2019 | 9:00- 17:00 | Morning (at Suwan farm) Preparation of feedback session about the problems Sharing session between groups Afternoon (Pak Chong) Control interviews about the problems | Thilde, Buncha, Team from the Faculty of Agriculture |
| Day 15 Sunday 31 March 2019 | 9:00- 17:00 | Trip arrangement to Kao Yai National Park (waterfalls and forest etc.), PB Valley Khao Yai Winery, Palio Kao Yai Shopping Center | Didier, Buncha, Team from the Faculty of Agriculture |
| Day 16 Monday 1 April 2019 | 9:00- 10:00 10:00- 11:00 11:00 12:00 13:00- 17:00 | Morning (at Suwan farm) Information by resource person (Dr. Chokechai Aekatasanawan Director of Suwan farm) Information by resource person Assoc. Prof. Dr. Somkiert Prasanpanich Work session on problems vs stakeholders' strategies Preparation of further surveys of stakeholders' strategies / impact of problems identified in week 2 Lunch break Afternoon (Pak Chong): Continuation of the surveys of stakeholders' strategies / impact of problems After dinner (at Suwan farm): Analysing the data (per group) and preparing the feedback for the next morning | Didier, Buncha, Team from the Faculty of Agriculture |

| Date | Time | Topics | Resource persons |
|--|---|---|---|
| <p>Day 17 (Tuesday 2 April 2019)</p> | <p>9:00-12:00</p> <p>13:00-15:00</p> <p>15:30-17:00</p> | <p>Morning (Pak Chong) Continuation of the surveys of stakeholders' strategies / impact of problems</p> <p>Lunch break</p> <p>Afternoon (at Suwan farm): Information by resource person (Assoc. Prof. Dr. Kannika Sajjaphan, Soil Microbiology Expert and team)</p> <p>Working on the data collected, preparation of the feedback</p> <p>/Feedback session. Building a typology of stakeholders and identifying impact /type</p> <p>After dinner (at Suwan farm): Preparation of the session on individual research proposals presentations (April 5)</p> | <p>Didier, Buncha, Team from the Faculty of Agriculture</p> |
| <p>Day 18 (Wednesday 3 April 2019)</p> | <p>9:00-17:00</p> | <p>(at Suwan farm/Pakchong) Report preparation for feed-back session with local stakeholders and authorities</p> | <p>Didier, Buncha, Team from the Faculty of Agriculture</p> |
| <p>Day 19 (Thursday 4 April 2019)</p> | <p>9:00-12:00</p> <p>12:00</p> <p>13:30</p> | <p>Morning (at Suwan farm) Feedback session with local stakeholders and government officials.</p> <p>Lunch</p> <p>Leaving the National Corn and Sorghum Research Center, Nakhon Rachasrima Province for Bangkok</p> <p>Afternoon (back to Bangkok): Preparation of the individual PISAI thesis research proposals presentations</p> | <p>Didier, Buncha, Team from the Faculty of Agriculture</p> |
| <p>Day 20 (Friday 5 April 2019)</p> | <p>9:00-17:00</p> | <p>Morning (Kasetsart) Presentation of students' research proposals and thesis (PISAI students).</p> <p>Afternoon Presentation of students' research proposals and thesis (PISAI students).</p> <p>3:30 PM : Evaluation of the module 4.30 PM: Closure of the module</p> | <p>at Wachiranusorn Building Room 302</p> <p>Didier, Buncha, Team from the Faculty of Agriculture</p> |