Co-funded by the Erasmus+ Programme of the European Union

PISAI

Participatory and Integrative Support for Agricultural Initiative

Erasmus+ KA2 Capacity Building in Higher Education

Project No. 586157-EPP-1-2017-1-TH-EPPKA2-CBHE-JP

Module 4

Internship Handbook

Prince of Songkla University

KASETSART UNIVERSITY 1943

KHON KAEN UNIVERSITY

Module 4 (Internship)

Handbook

Co-funded by the
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of the European Union

Preface

The significant purpose of educational goals is to prepare alumni with sufficient knowledge and skills to become competent human resource in different societies either as employees or entrepreneurs in their respective fields. It is a continuous challenge for Higher Education Institutions (HEIs) to design their curriculum in such a way that would give students the advantage of experiencing balance between theoretical knowledge in classroom and ever-changing practical skills and soft skills for them to actually be able to implement their learned knowledge. This is particularly hard for HEIs or universities in Asian countries, where resources and opportunities are limited.

In the area of agriculture and life sciences, internship is very important to make sure students have enough experience both in classroom and in the field to create successful impact in their communities. Agriculture is indeed one of the major sectors in Asian economy, and depending on the country, absorbed most of the worker population. Therefore, it is very important for agriculture students to be equipped with not only the knowledge, but also the experience to ensure productive outcomes.

To help equip Thai students in the future, PISAI project, with the primary aim to integrate practical approach for the learning experience at the master degree level, seeks to encourage cooperation of academic sector (HEIs) with professional sector in the area of sustainable agriculture. We believe that the graduates would have an enhanced employability. The project is hoping to provide more resources to universities with the following strategic steps:

1. Improving curriculum of study programs at master level at four key agricultural Thai universities by introducing internships into the learning process leading to more practical knowledge and better skill of the graduate. This is the first time that internship is introduced to the graduate level in agriculture. Module 4 is identified as an internship to follow the three agricultural field modules.
2. Enhancing soft skills of the students by being with the real work experiences.
3. Networking with the stakeholders in the agribusiness.

Objectives

The PISAI project organises internship in the Module 4 firstly for the benefit of students in order for quality improvement in terms of both contents and extent which students are able to handle the knowledge and experiences at work place. The indirect benefit will be for both the HEIs and stakeholders including companies and related organizations for present and future cooperation and innovation.

This handbook is for both students and teaching staff to understand the purposes and procedures so that the internship is carried out successfully with achieved goals in mind.

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Introduction

Internship

Internship, which exists in a wide variety and settings, is very important for students at higher education levels. It is an opportunity for students to work at a firm or an organization for a fixed period of time. An internship gives practical skills, workplace experience and greater knowledge of industries or those related to students' future career, in exchange for the employer benefiting from students' inputs.

Many organizations may receive interns for a number of weeks or months to assist with the completion of a major project or event. Several organizations may have student interns to fill in the routine tasks as a support role. But they are a great opportunity for students to learn how the organization is operated, even if students are only carrying out basic activities.

The majority of interns will carry out a range of support tasks in a junior role. The specific duties of an internship will vary considerably depending on employers/offices, the industry and the type of internship. Unlike conventional employment, internships have an emphasis on training, rather than employment itself.

Students taking internship will in fact benefit from having developed evidence skills in project management, problem solving and colleague/client relationship management. Even if the internship is only for a short period, it can still equip students with a range of manageable skills and help initiating network and valuable connections for the future career. CVs showing internship experiences will always be the value added for the students (Wikijob, 2019).

For higher education institutions (HEIs), partnerships with firms mediated by students' curricular internships are very important that allow increased mutual benefits in the form of the exchange of knowledge and innovation. Franco *et al*. (2019) studied these relationships by testing various hypotheses to measure the influence of certain factors on the student's personal involvement in curricular internships organized through HEI–firm partnerships in Portugal. The obtained results show that students assess internships very positively in all aspects including organization of the internship, the HEI's orientation, the host institution (HI) and the HI's orientation. The authors concluded that the professional internships provided by HEI–firm partnerships play a crucial role in students' entry into a labor market which are highly competitive.

Advantages and Academic Value of Internship

Advantages of doing an internship have been revealed by all parties in the educational societies and the stakeholders including students, HEIs and the employers. Agricultural educational systems require an understanding of how individual and collective capacities are strengthened and how these capabilities are applied to agriculture. Therefore, not only do students need to focus on the academic knowledge but also on systemic practices and behaviors that affect organizational learning and changes in the rapid world development. An important element for a successful graduate is the social processes when students have to interact with different groups in the working environments. They will be able to learn how to adapt, share interest and create a network. These networks are the means that allow entrance to new knowledge and opportunities for their future.

In relation to the above positive aspects of internship, Callanan and Benzing (2004) assessed the relationship between the completion of an internship assignment prior to graduation and subsequent employment in a career-oriented job after graduation in the mid-Atlantic region of the USA. Results showed that the completion of an internship assignment was linked with finding career-oriented employment, but was not related to a higher level of confidence over personal fit with the position that was selected. The article discusses practical issues related to the use of internships and other forms of anticipatory socialization in the career management activities of college students. Furthermore, Binders et al. (2015) conducted a study to ascertain academic value of internship by covering a wider aspect across students' background and disciplines as well as genders. They concluded that academic value of internship is an indirect path to career indicators important for higher education institutions and those who advising students on their career plans. Their findings which lead to important messages are 1) internships typically come with benefits and all students across all subject areas are likely to reap these benefits 2) there is, on the whole, surprisingly little variation between advantaged and disadvantaged student groups, encouraging weaker students to take up an internship is no waste effort 3) Institutions are well advised to consider course-level variability 4) academic benefits may be due to aspects of the non-academic environment in which internship happen 5)institutions should consider whether degree courses without internships carry specific disadvantages , and if so, how these could be addressed through specific study support. The key advantages of doing an internship could be summarized below.

1. Opportunity to develop knowledge and skills in a particular field or industry
2. Exploring different roles to see how students would want to pursue after graduation
3. Getting insight into workplaces and what challenges they face on a daily basis
4. The opportunity to create a network of contacts
5. Gaining valuable work experience to have added value for employment
6. Acquiring university credits
7. Applying the concepts and strategies of academic study in a live work environment
8. Improving soft skills and personality

On the HEIs' dimension, more cooperation between professional sectors and universities is the add-on positive impact. Platforms for cooperation with professional sector can be formed which consequently couples with improved teaching, curricular updating, research project and training for student benefit.

Witness

Internship was evaluated by Asian universities participating in the SIMPLE-E+ Project in 2018 revealed that regardless of differences in Internships performed at different universities in Thailand, Cambodia and Indonesia, the internships have the positive impacts on students' ability in the job market (Project SIMPLE, 2019) as depicted in the chart below.

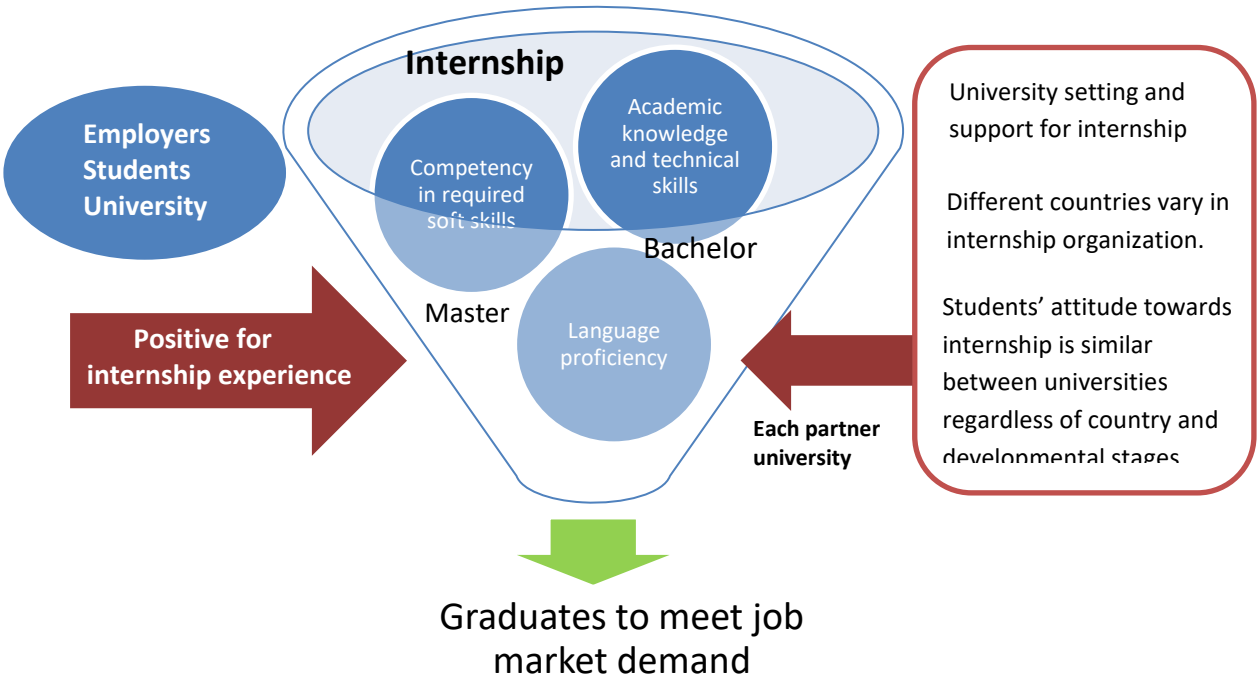
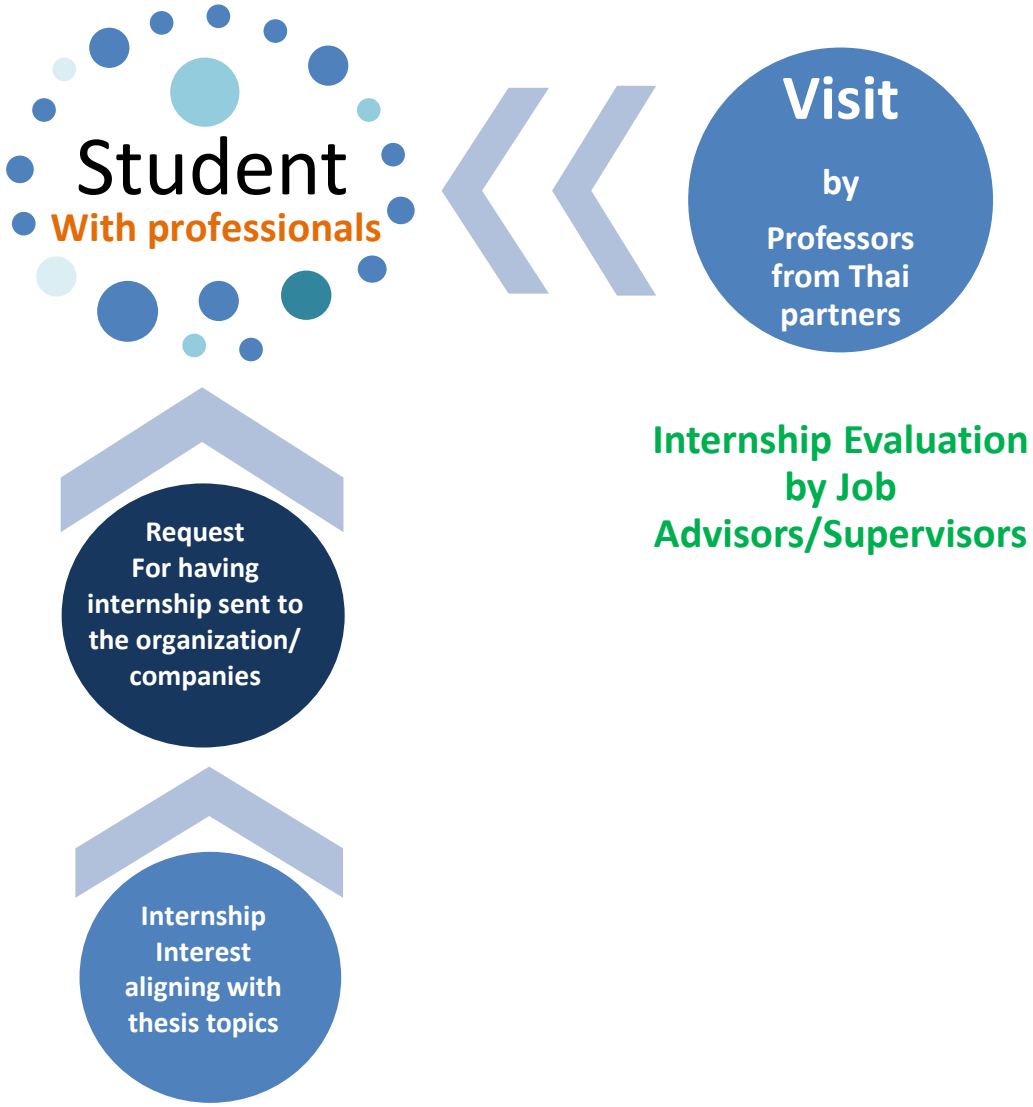


Figure 1. Impacts of internship of students ability and job market

Overall Procedure of Internship

The procedure for taking internship is shown below. Firstly, students express their interest in doing internship to respective thesis advisor and PISAI coordinator. Advisor or PISAI coordinator subsequently discusses with potential organizations for the students' interest and possibility to accept the student for internship with specified tasks, responsibilities and duration. After agreeing to accept the student, a formal request is sent to the organization specifying the scope of work and period of the internship. The students will then be attached to the workplace for the agreed duration. During the course of the internship, a site visit by professors from Thai partners is arranged. The students will be evaluated by job advisors at the end of the internship and submit the internship report to PISAI coordinator. A presentation of the gained experiences may be done to share with friends, teaching staff and related personnel.



Internship (Practical Training) Instruction

Scope of training:

Student is required to complete practical training in duration of at least 100 hours in total. In order for students to gain the formal credits the practical hours can be equivalent. The *Practical Training* is credited in Thai education system as follows:

- 100 hours is equivalent to 1 credit
- 200 hours is equivalent to 2 credits
- 300 hours is equivalent to 3 credits

Content of training:

Practical training and its content must be related with the chosen study programme, study specialization or master's thesis. Students are recommended to attend training in organizations engaged in agriculture including economic and environmental development in agricultural enterprises. It is possible to accept the active participation in research project. During practical training, students should apply knowledge and skills acquired while studying at university. Practical training includes a training for student's soft skill such as interpersonal, leadership, adaptability and management ability through involving in various activities of real agricultural experience aspects.

Documents for training:

1. Students inform of their interest for practical training in their field which approved by the supervisor.
2. After completion of the practical training, student submit the **evaluation form** from the company/organization and **report form** to the supervisor and PISAI coordinator (no later than 30 days after completion of practical training).
3. Student is responsible to **present the results of his/her practical training** to other students during the agreed lecture/workshop/meeting.

Practical training report:

Report on completion of practical training according to the form - see prescribed structure below:

a. Name, home ad host university, title of thesis project
b. Activities carried out
c. Indicators of achievement and or/performance
d. Knowledge gained from being involved in internship

Warning:

Practical training will not be recognized in the following cases:

a. Student will break any of conditions in pursuance of practical training.
b. Student will require recognition of training retrospectively, i.e. he fails to submit required documents within 30 days after the end of training.
c. Report is not in required extent.

Examples of the work place for internship

Organization	Type of operation	Location
Agricultural Production Farm and Organic Farms	Production of crops eg. vegetables, fruits, livestocks and aquaculture, greenhouse operation and management	Songkhla, Chiang Mai, Chiang Rai, Khon Kaen provinces
Agricultural Extension Offices	Facilitation for farmer in compilation with government regulations, building up farmer network, community enterprise preparation, data collection for farmer database,	Songkhla, Chiang Mai, Chiang Rai, Khon Kaen and central area provinces such as Nakorn Ratchasrima
Royal Projects	Sustainable agricultural system, farm standard for chemical free practices, cropping system for highland and drought areas	Songkhla, Chiang Mai, Chiang Rai, Khon Kaen provinces
Community Enterprises	Farmer group and network for different agricultural products including the processing products such as preserved products and handicrafts made of agricultural by-products	Songkhla, Chiang Mai, Chiang Rai, Khon Kaen and central area provinces such as Nakorn Ratchasrima
Agri-business	Farm management including planning and producing agricultural commodity, market research and survey, contract farming, farmer market operation including whole sale and retails	Songkhla, Chiang Mai, Chiang Rai, Khon Kaen provinces

Application Form for Practical Training (Internship)

Name and surname:	
Date of birth:	Address:
Phone number:	Email:
Faculty:	Year of study:
Study programme:	

Brief structure of the application:

- Name of organization/institution/project:
- Term of practical training:
- Planned activities and expected contribution to the students' skill and knowledge:
- Preliminary workload/timetable of practical training:

Date:	Student's signature:

Statement of the supervisor: Date and signature:

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Activity Report Form - Students under PISAI project

For Internship students

Student's Name	
Title of Thesis	
Home University	
Host University	

Indicators of achievement and or/performance
1.
2.
3.
4.

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1					

Knowledge gained from being involved in internship

Signature

Home University Advisor……..

Host University Advisor……..

Evaluation on Internship Students under PISAI project (Module 4)

Student's Name	
Home University	

Placement (Type of agriculture)	

Indicators of achievement and or/performance
- Student's responsibility - Learning achievement - Adaptation to assignment - Personal adaptation to the host/farmers' family/company - Communication skill - Willingness to volunteer for tasks apart from assignment

Activities carried out

N°	Activity Title	Start date	End date	Evaluation				
				1	2	3	4	5

Overall Performance Evaluation

Criteria	1	2	3	4	5
1. Student's responsibility ความรับผิดชอบ					
2. Adaptation to assignment การปรับตัวต่องานที่ได้รับมอบหมาย					
3. Learning achievement ผลสัมฤทธิ์การเรียนรู้					
4. Personal adaptation to the host/farmers' family/company/work environment การปรับตัวของนักศึกษาให้เข้ากับสภาพแลดล้อมและการอยู่ร่วมกับเกษตรกร/การทำงาน					
5. Communication skill ความสามารถและทักษะในการสื่อสารกับเกษตรกรและผู้ร่วมงาน					
6. Willingness to volunteer for tasks apart from assignment การมีจิตสาธารณะในการช่วยเหลือนอกเหนืองานที่ได้รับมอบหมาย					

Remark: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very good, 5= Excellent
หมายเหตุ: 1 = ควรปรับปรุง 2 = พอใช้ 3 = ดี 4 = ดีมาก 5 = ยอดเยี่ยม

Comments and suggestion

Signature

Evaluator……..

(……..)

Position and Affiliation

Evaluation Form - Internship Student's Presentation

Student name: _____

Department/Program: _____

Date: _____ Time: _____

Category	Full score	Earned score
1. Content and conclusion	40	
2. Presentation ability and multimedia usage ability	20	
3. Discussion and answering questions	20	
4. Time management	10	
5. Personality	10	
Total	**100**	

Comments:

_____

_____

_____

_____

Evaluator Name and Signature:_____ _____

References

Binders, J.F., Baguley, T., Crook, C. and Miller, F. 2015. The academic value of internships: Benefits across disciplines and student backgrounds. Contemporary Educational Psychology 41, 73-82

Callanan, G. and Benzing, C. 2004. Assessing the role of internships in the career-oriented employment of graduating college students. Education and Training 46 (2), 82-89

Franco, M., Silva, R. and Rodrigues, M. 2019. Partnerships between higher education institutions and firms: The role of students' curricular internships. Industry and Higher Education 33 (3), 172-185

SIMPLE Project, 2019. Internship Evaluation Report – Project SIMPLE Study. Report submitted to Erasmus+ Programme: Capacity-Building projects in the field of Higher Education (E+CBHE), project number: 574019-EPP-1-2016-1-CZ-EPPKA2-CBHE-JP ISBN (print version): 978-80-213-2979-9

Wikijob. 2019. What is an Internship? https://www.wikijob.co.uk/content/internships/advice/what-internship accessed on 15 August 2019

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Appendix

Internship Students's Report

Prince of Songkla University

KASETSART UNIVERSITY 1943

KHON KAEN UNIVERSITY

Miss Wantanee Meeloon

Home University: Khon Kaen University

Host University: Prince of Songkla University

Internship site: Organic Farm (Mr. Kamnueng Soiseemark)

Songkhla, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Miss Wantanee Meeloon
Title of Thesis	Evaluation of nutrients in plant parts and yield of rubber tree clone RRIM600 and RRIT251 in northeast Thailand
Home University	Khon Kaen University
Host University	Prince of Songkla University Hat Yai Campus

Indicators of achievement and or/performance as indicated in the project proposal
1.สามารถปรับตัวให้อยู่ร่วมกับคนอื่นได้
2. เรียนรู้วัฒนธรรม วิถีชีวิต ความเป็นอยู่ของเกษตรกรภาคใต้
3. ได้รับความรู้เกี่ยวกับการทำเกษตรอินทรีย์

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	- เดินทางไปบ้านเกษตรกร - ปลูกแตงกวา	10 ม.ค. 2562 17.00 น.	10 ม.ค. 2562 18.30 น.	หมู่ 2 บ. ดีหลวง ต.ดีหลวง อ.สทิงพระ จ.สงขลา	ปลูกแตงกวา 1) นำดินปลูกที่ผสมแล้วมาโรยบริเวณแปลงแตงกวา แล้วโรยปุ๋ยขี้ไก่อบตาม 2) ขุดหลุมประมาณ 1 เซนติเมตร โดยใช้นิ้วมือกด แต่ละหลุมห่างกัน 25 เซนติเมตร ใส่เมล็ดแตงกวา 1 เมล็ดต่อหลุม 3) นำฟางมาโรยรอบๆ หลุมเพื่อรักษาความชื้อ จากนั้นรดน้ำให้ชุ่ม จะรดน้ำวันละ 1 ครั้ง
2	- มัดสายบัว - ผสมดินปลูก - ตัดผักขาย - ปลูกมะระ - รดน้ำมะระ บวมเหลี่ยม - ล้างและตัดแต่งผัก - ไปขายผัก	11 ม.ค. 2562 04.30 น.	11 ม.ค. 2562 20.30 น.	หมู่ 2 บ. ดีหลวง ต.ดีหลวง อ.สทิงพระ จ.สงขลา และ ตลาดเกษตร มหาวิทยาลัยสงขลานครินทร์	1) มัดสายบัว มัดขนาดประมานหนึ่งกำมือรวบได้ จากนั้นเอาใบตองที่ฉีกเป็นแผ่นเล็กๆรองก่อนแล้วนำยางมัด โดยจะมัดหัวท้าย 2) ผสมดินปลูก ซึ่งดินปลูกนี้จะใช้ทุกพืชที่ปลูก อัตราส่วน คือ แกลบดำ: ขี้วัว 2:1 โดยหนึ่งครั้งที่ผสมจะใช้แกลบดำ 6 กระสอบ ขี้วัว 3 กระสอบ 3) ตัดผักขาย - ตัดมะระขึ้นก โดยเลือกลูกที่เต่งๆ - ถอนผักบุ้ง ประมาณ 40 กิโลกรัม - ถอนผักโขม 20 กิโลกรัม - ตัดบวบเหลี่ยม โดยใช้กรรไกรหรือมีด ตัดให้เหลือก้านผลประมาณ 1 นิ้ว 4) ปลูกมะระ - แช่เมล็ด มะระในน้ำอุ่น 30 นาที โรยดินปลูก จากนั้นขุดหลุมลึก 1 นิ้ว ใส่ 1 เมล็ดต่อหลุม แล้วกลบเบาๆ - หลุมฟางเพื่อรักษาความชื้น แล้วรดน้ำตาม โดยจะรดน้ำวันละ 1 ครั้ง 3) รดน้ำโดยใช้สายยางแล้วเดินฉีด รดน้ำมะระ 15 นาที บวบเหลี่ยม 20 นาที โดยน้ำที่ใช้รด มาจากการขุดน้ำใต้ดินแล้วใช้ปั๊มดูดขึ้นมา

					4) ล้างและตัดแต่งผัก โดยผักที่ต้องล้างคือ ผักโขม ผักกาดนกเขา กระเพา โหรพา ผักหวานบ้าน ผักน้ำ ส่วนผักบุ้งจะล้างแล้วนำมาเอาใบเลี้ยงออกให้สวยงาม แล้วนำผักที่ได้ไปมัดเป็นกำ ยกเว้นผักน้ำและผักโขมที่นำไปชั่งกิโลขายได้เลย 5) ขายผัก ผักที่ขายที่ปลูกเองคือ ผักโขม กก.ละ 100 บ. ผักบุ้ง 0.5 กก./มัดๆละ 20 บ. มะระและมะระขี้นก กก.ละ 100 บ. ผักน้ำ กระเพามัดละ 10 บ. โหรพา ผักกาดนกเขา ผักหวานบ้าน มัดละ 10 บ. ผักที่รับจากในเครือ คือ สายบัวมัดละ 10 บ. ถั่วฝักยาว กก.ละ 70 บ. แตงกวา กก. ละ 40 บ. ใบบัวบก กก.ละ 150 บ. มะขามเปรี้ยว กก.ละ 50 บ. พริก กก.ละ 200 บ. ฟักทองกก. ละ 80 ซึ่งผักที่รับและเก็บในแปลงในแต่ละวันจะต่างกัน
3	- เผาแกลบ - คลุมฟางมะเขือเทศ - รดเชื้อราให้มะเขือเทศ - ผสมเกสรมะระ - รดน้ำบวบเหลี่ยม - ต้อนรับอาจารย์มาดูงาน	12 ม.ค. 2562 07.00 น.	12 ม.ค. 2562 18.00 น.	หมู่ 2 บ. ดีหลวง ต.ดีหลวง อ.สทิงพระ จ.สงขลา	1) เผาแกลบดิบให้เป็นแกลบดำ โดยจะใช้เวลาเผาประมาณ 8 ชั่วโมง ใช้แกลบดิบ 10 กระสอบ จะได้แกลบดำ 6 กระสอบ 2) คลุมฟางมะเขือเทศพันธุ์เชอรี โดยจะคลุมรอบๆโคลนต้นห่างออกมาประมาณ 20 ซม. เพื่อรักษาความชื้น 3) รดเชื้อราไตรโคเดอร์มา ให้มะเขือเทศ เพื่อป้องกันเชื้อราที่ทำให้มะเขือเทศเกิดโรครากเน่า โดยผสมเชื้อรา 50 กรัมต่อน้ำ 100 ลิตร 4) รดน้ำบวบเหลี่ยม 5) อาจารย์มาดูงาน 6) ไปฉีดน้ำให้แกลบที่เผาแล้วไม่ให้เป็นเถ้า โดยฉีดน้ำไปด้วยกลับแกลบไปด้วย
4	- ลอกสายบัว - ผสมดินปลูก - ปลูกผักบุ้ง - ทำเชือกกล้วย - รดน้ำมะระ บวมเหลี่ยม - เผาแกลบ	13 ม.ค. 2562 07.00 น	13 ม.ค. 2562 18.00 น.	หมู่ 2 บ. ดีหลวง ต.ดีหลวง อ.สทิงพระ จ.สงขลา	1) ทำสายบัว โดยนำสายบัวมาล้าง แล้วนำมาตัดเป็นท่อนประมาณ 30 ซม. จากนั้นนำมาลอกเปลือกออกคลุมผ้าเปียกไว้ รอมัดในวันพรุ่งนี้ 2) ผสมดินปลูก เพื่อนำไปปลูก ผักบุ้ง ผักโขม 3) ปลูกผักบุ้ง - ถอนหญ้า วัชพืชในแปลงออก - แล้วโรยดินปลูกลงไป ใช้คราดเกลี่ยดินให้เสมอกัน แปลงขนาด 2.4x12 เมตร ใช้ดินปลูก 3 กระสอบ จากนั้นใช้คราดเกลี่ยให้เรียบ - นำไม้มาขีดเป็นแถว จากนั้นโรยเมล็ดผักบุ้งลง แล้วกลบเบาๆ ระยะห่างระหว่างแถว 5 ซม. พอปลูกเสร็จคลุมด้วยฟาง แล้วรดน้ำตาม รดน้ำวันละ 1 โดยสปริงเกอร์ 4) ทำเชือกกล้วย โดยตัดต้นกล้วยที่ล้ม ที่ตัดลูกแล้วมาใช้นำมาลอกกาบออกที่ละชั้น นำกาบที่ได้มาตัดทางยางเป็นเส้นเล็ก แล้วนำไปตากแดด จนกว่าจะแห้งเป็นสีน้ำตาล 5) รดน้ำมะระ บวบเหลี่ยม 6) เผาแกลบดิบ ทั้งหมด 12 กระสอบ ได้แกลบดำ 8 กระสอบ
5	- มัดสายบัว - ตัดผักขาย - รดน้ำมะระ บวมเหลี่ยม - ล้างและตัดแต่งผัก - ไปขายผัก	14 ม.ค. 2562 04.30 น.	14 ม.ค. 2562 20.30 น.	หมู่ 2 บ. ดีหลวง ต.ดีหลวง อ.สทิงพระ จ.สงขลา และ ตลาดเกษตร มหาวิทยาลัยสงขลานครินทร์	1) มัดสายบัว 2) รดน้ำมะระและบวบเหลี่ยม 3) ตัดผักขาย - ตัดมะระขี้นก โดยเลือกลูกที่เต่งๆ - ถอนผักบุ้ง ประมาณ 30 กิโลกรัม - ถอนผักโขม 20 กิโลกรัม - ตัดมะระ 35 ลูก - ตัดกวางตุ้งดอก

					- ตัด กะเพรา โหรพา ยอดมะม่วงหิมพาน มะเขือพวง ผักน้ำ 4) ล้างและตัดแต่งผัก 5) ขายผัก ผักที่ขายที่ปลูกเองคือ ผักโขม กก.ละ 100 บ. ผักบุ้ง 0.5 กก./มัดๆละ 20 บ. มะระและมะระขี้นก กก.ละ 100 บ. ผักน้ำ กก.ละ 100 บ. กระเพามัดละ 10 บ. โหรพา ผักกาดนกเขา ผักที่รับจากในเครือ คือ สายบัวมัดละ 10 บ. ถั่วฝักยาว กก.ละ 70 บ. แตงกวา กก. ละ 40 บ. ใบบัวบก กก.ละ 150 พริก กก.ละ 200 บ. ฟักทองกก. ละ 80 มะเขือเปราะ กก. ละ 20 บ. ผักหวานบ้าน มัดละ 10 บ. และกล้วยฉาบ รสเค็มและหวาน ถุงละครึ่ง กก. ถุงละ 60 บาท อย่างละ 5 ถุง ได้กำไลจากกล้วยฉาบทั้งหมด 60 บาท
6	- ผสมดินปลูก - ผสมเกสรมะระ - ปลูกคะน้า - ใส่ปุ๋ย - ลอกสายบัว - แยกชัยณรงค์	15 ม.ค. 2562 07.00 น.	15 ม.ค. 2562 17.00 น.	หมู่ 2 บ. ดีหลวง ต.ดีหลวง อ.สทิงพระ จ.สงขลา	1) ผสมดินปลูก เพื่อปลูก คะน้า 2) ปลูกคะน้า - ถอนหญ้า วัชพืชในแปลงออก - ใช้คราดเกลี่ยดินให้เสมอกัน แล้วโรยดินปลูกลงไปแปลงขนาด 2.4x12 เมตร ใช้ดินปลูก 3 กระสอบ จากนั้นใช้คราดเกลี่ยให้เรียบ - ใช้ฟางคลุมทั่วทั้งแปลง - ขุดหลุม ระยะห่าง 5x5 ซม. ขุดหลุมให้ลึกประมาณ 5 ซม. จากนั้นนำต้นกล้าที่เพราะในถาดหลุมอายุ 15 วัน มาปลูก ต้นละหลุม แล้วแกลบ เมื่อปลูกเสร็จแล้วรดน้ำตามรดน้ำวันละ 1 ครั้งโดยสปริงเกอร์ 3) ใส่ปุ๋ยขี้ไก่อบ ที่ซื้อจาก มอ. โดยโรยบางๆให้ทั่ว แปลงที่ใส่ปุ๋ยคือ แปลงผักโขม ผักกาดขาว มะเขือเทศเชอรี 4) ชัยณรงค์ลูกปล่อยไว้ในโรงเรือนปิดของมะระเพื่อช่วยผสมเกสร ซึ่งมะระจำเป็นต้องมีแมลงช่วยผสมเกสรให้ติดลูก แยกชัยณรงค์ เพื่อเพิ่มจำนวน ถ้ามีชัยณรงค์เพิ่มขึ้นจะช่วยผสมเกสรมะระให้ติดลูกมากขึ้น 5) ลอกสายบัว
7	- มัดสายบัว - ตัดผักขาย - รดน้ำมะระ บวมเหลี่ยม - ล้างและตัดแต่งผัก - ไปขายผัก	16 ม.ค. 2562 04.30 น.	16 ม.ค. 2562 20.30 น.	หมู่ 2 บ. ดีหลวง ต.ดีหลวง อ.สทิงพระ จ.สงขลา และ ตลาดเกษตร มหาวิทยาลัยสงขลานครินทร์	1) มัดสายบัว 2) รดน้ำมะระและบวบเหลี่ยม 3) ตัดผักขาย - ตัดมะระขี้นก - ถอนผักบุ้ง ประมาณ 40 กิโลกรัม - ตัดมะระ 40 ลูก - ตัดกวางตุ้งดอก - ตัดผักน้ำ ผักกาดนกเขา 4) ล้างและตัดแต่งผัก 5) ขายผัก ผักที่ขายที่ปลูกเองคือ ผักบุ้ง 0.5 กก./มัดๆละ 20 บ. มะระและมะระขี้นก กก.ละ 100 บ. ผักน้ำ กก.ละ 100 บ. กระเพามัดละ 10 บ. โหรพา ผักกาดนกเขา ผักที่รับจากในเครือ คือ สายบัวมัดละ 10 บ. ถั่วฝักยาว กก.ละ 70 บ. แตงกวา กก. ละ 40 บ. พริก กก.ละ 250 บ. ฟักทองกก. ละ 80 มะเขือเปราะ กก. ละ 20 บ. และกล้วยฉาบ รสเค็มและหวาน ถุงละครึ่ง กก. ถุงละ 60 บาท อย่างละ 5 ถุง ได้กำไลจากกล้วยฉาบทั้งหมด 60 บาท

Knowledge gained from being involved in internship

- ได้เรียนรู้การใช้ชีวิตอยู่ร่วมกับผู้อื่น ซึ่งถือว่าต่างภาษา และวัฒนธรรมการกิน การอยู่
- การทำเกษตรอินทรีย์ยาก เมื่อเทียบกับการปลูกผักทั่วไปที่ใช้ปุ๋ยเคมี แต่ดิฉันพบว่าผักที่ได้ทานอร่อยกว่าผักทั่วไป เก็บไว้ได้นาน เกษตรกรผู้ปลูกมีความสุข สุขภาพแข็งแรงทั้งจากการปลูกผักแบบไม่ใช้สารและการได้ทานผักที่ปลอดภัย เกษตรอินทรีย์คือเป็นความยั่งยืนทางสุขภาพ
- ได้เรียนรู้ขั้นตอนการปลูกผักอินทรีย์ตั้งแต่การเตรียมวัสดุปลูก จนไปถึงการจำหน่าย ซึ่งความรู้ที่ได้ดิฉันจะนำมาใช้กับครอบครัว ให้ปลูกผักไว้ทานอย่างปลอดภัย
- ขอบขอบพระคุณอาจารย์ ชุติมา ที่แนะนำให้ได้เรียนรู้ประสบการณ์ดีๆที่หาได้ได้แบบนี้ และครอบครัวน้าคำนึงที่ช่วยสอนประสบการณ์ต่างๆในการใช้ชีวิต ให้ความรู้เรื่องการปลูกผักอินทรีย์ และคอยดูแลและต้อนรับอย่างอบอุ่น ขอบพระคุณค่ะ

รูปภาพกิจกรรม

วันที่ 10 มกราคม 2562

ปลูกแตงกวา

ทานข้าวเย็นร่วมกับครอบครัวน้าคำนึง

วันที่ 11 มกราคม 2562

ปลูกมะระ

ผสมดิน

เก็บผักบุ้งไปขาย

มัดสายบัว

ขายผัก

12 มกราคม 2562

เผาแกลบ

คลุมฟางมะเขือเทศ

อาจารย์มาดูงาน

13 มกราคม 2562

เผาแกลบ

ทำเชือกกล้วย

ปลูกผักบุ้ง

14 มกราคม 2562

รดน้ำบวบเหลี่ยม

ล้างผักไปขาย

15 มกราคม 2562

ปลูกคะน้า

ล้าง ตัดและลอกสายบัว

แยกชัยณรงค์

ผสมเกสรมะระ

16 มกราคม 2562

ตัดผักขาย

ล้างผัก

ขายผัก

Mr. Seksan Duangsingtham

Home University: Chiang Mai University

Host University: Prince of Songkla University

Internship site: Songkhla Provincial Livestock Office and Cattle Farm (Mr. Tassanai Dammachuchote) in Rattaphum district Songkhla, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Mr. Seksan Duangsingtham
Title of Thesis	Guidelines for developing Beef Cattle Raising among Farmer in Mae Chaem District, Chiang Mai Province and Rattaphum District, Songkhla Province.
Home University	Chiang Mai University
Host University	Prince of Songkla University

Indicators of achievement and or/performance as indicated in the project proposal
1. Learn the farming system
2. take Ovulation Synchronization

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	artificial insemination and inspect dairy cattle farm	16/3/2020	20/3/2020	Rattaphum district Songkla Province	The activities in 1st week for internship at Internship in department of livestock development in Rattaphum district Songkla Province I checkup pregnant of cattle farm after government officer was artificial insemination and inspect dairy cattle farm under project of Thailand Cattle bank in department of livestock development I did check the number of dairy cattle 10 farms in Rattaphum District Songkla Province.
2	draw blood keep feces for check in laboratory	23/3/2020	27/3/2020	Rattaphum district Songkla Province	The activities in 2nd Week for internship at Internship in department of livestock development in Rattaphum district Songkla Province I check up dairy cattle such as draw blood keep feces for check in laboratory and check teeth for assess year's dairy cattle. I check up of cattle farm after government officer was artificial insemination and make artificial insemination to native cattle in farm.
3	help take sterilize and take vaccination	30/3/2020	3/4/2020	Rattaphum district Songkla Province	The activities in 3rd Week for internship at Internship in department of livestock development in Rattaphum district Songkla Province. I check up dairy cattle such as draw blood keep feces for check in laboratory and check teeth for assess year's dairy cattle same 2ndweek and livestock farmer group meeting. Next activity I did help take sterilize and take vaccination for pet in area.

4	take Ovulation Synchronization and Fixed-time Artificial insemination Program	6/4/2020	10/4/2020	Rattaphum district Songkla Province	4th week day 6 April – 10 April 2020 the activities in 4th Week for internship at Internship in department of livestock development in Rattaphum district Songkla Province. I will was artificial insemination and checkup pregnant of cattle in farm if it is not pregnant I will take Ovulation Synchronization and Fixed-time Artificial insemination Program to cattle and did livestock farmer group meeting for make cattle farmer group.
5	checkpoint with check people come to Songkla and register people	13/4/2020	17/4/2020	Rattaphum district Songkla Province	5th week day 13 April – 17 April 2020 the activities in 5th Week for internship at Internship in department of livestock development in Rattaphum district Songkla Province. I stand by the checkpoint with check people come to Songkla and register people.I did chackup pregnant cattle, if it is not pregnant I will take Ovulation Synchronization and Fixed-time Artificial Insemination Program to cattle and livestock farmer group meeting for make cattle farmer group.
6	check teeth for assess year's dairy cattle	20/4/2020	25/4/2020	Rattaphum district Songkla Province	6th week day 20 April – 25 April 2020 the activities in 6th Week for internship at Internship in department of livestock development in Rattaphum district Songkla Province. I check up dairy cattle such as draw blood keep feces for check in laboratory and check teeth for assess year's dairy cattle. I will was artificial insemination and checkup pregnant of cattle in farm if it is not pregnant I will take Ovulation Synchronization and Fixed-time Artificial insemination Program to cattle
7	Learn the farming system	27/4/2020	30/4/2020	Rattaphum district Songkla Province	7th week day the activities in 1st week for internship at Internship in department of livestock development in Rattaphum district Songkla Province I stay at DLD office with register farmer by government policy with help farmer in Thailand thay get effect COVID19. Songkla Province time for wok at 05.00 p.m. to 07.30 p.m. every day in week The activity is routine on time I will present the activity everyday 1st activity I did clean cattle stable and make manure. 2nd activity I cut and chop grass in the field with make feeds for cattle in farm 3rd activity I give feed and water for cattle in farm. That 3 activity for everyday and same day activity

					I bandage cattle case such as rope is cut cattle or cattle is abscess. Every Friday I will was artificial insemination and checkup pregnant of cattle in farm if it is not pregnant I will take Ovulation Synchronization and Fixed-time Artificial insemination Program to cattle in farm.

Knowledge gained from being involved in internship

1. Learn the system and compare Farmer and Government system.
2. Applied the education knowledge for adjust the problem meet in farm and government system.
3. Get the new knowledge in not found in book Such as native language, farmer experience, culture, style of cattle and new friendship
4. Can develop the data for my thesis to guideline and answer

Signature

Home University Advisor..... Panuphan Prapatigul .....
Host University Advisor..... Apinya Ratanachai .....

Miss Chattamas Promdach

Home University: Prince of Songkla University

Host University: Kasetsart University

Kasetsart University site: Central Laboratory and Greenhouse Complex Department of Horticulture, Faculty of Agriculture and Postharvest Technology Center, Kasetsart University Kamphaeng Saen Campus Nakhon Pratom, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Miss Chattamas Promdach
Title of Thesis	Production of Edible Flowers under Greenhouse System
Home University	Prince of Songkla University
Host University	Kasetsart University

Indicators of achievement and or/performance as indicated in the project proposal
1. improving the skills of propagation and transplantation technique on cactus, rose, and papaya
2. leaning and applying of soil media mixing for cactus and rose

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	Cactus and papaya	16/11/20	18/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University (fields)	- mixing soil media for transplant cactus and dorstenia - study breeding technique for different species of cactus - technique of grafting cactus - identifying the sex of papaya flowers
2	Rose	19/11/20	19/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University (fields)	- mixing soil media for transplant rose stock - test the scent of rose and count rose sepals for collecting botanical characteristics data - rose propagation by chip budding technique

Knowledge gained from being involved in internship

- techniques of transplant cactus and dorstenia and grafting cactus techniques
- techniques for identifying sex of papaya flowers
- rose propagation by chip budding techniques

Signature
Home University Advisor.....Ladawan Lerslerwong.....
(Asst. Prof. Dr. Ladawan Lerslerwong)

(For) Host University Advisor.....Kriengsak Thaipong.....
(Asst. Prof. Dr. Dr.Kriengsak Thaipong)

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Miss Chattamas Promdach
Title of Thesis	Production of Edible Flowers under Greenhouse System
Home University	Prince of Songkla University
Host University	Kasetsart University

Indicators of achievement and or/performance as indicated in the project proposal
1. learning about perfume making and extraction methods
2. improving the skills of postharvest technique on flowers

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	Traditional Thai perfumes	20/11/20	20/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University,	- testing the scent of natural and synthetic fragrances of Thai fragrant flowers - scent extraction from Thai fragrant flowers by using 95 % ethanol - blending the different fragrance to make traditional Thai perfumes
2	Basic postharvest	23/11/20	23/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University	- study on basic of postharvest and evaluation of agricultural product by flow board, colorimeter, color charts, and acidic titration
3	Postharvest of crown flower	24/11/20	27/11/20	Postharvest Technology Center, Kamphaeng Saen, Kasetsart University	- measuring Co_2 by using gas chromatography (GC) for calculated the respiration rate of crown flowers - treating the ethylene gas for crown flowers

Knowledge gained from being involved in internship

- known and detected more different scent from Thai fragrant flowers
- scents extraction from Thai fragrant flowers with alcohol technique and the methods of blending traditional Thai perfumes
- postharvest technique of evaluation quality for crown flower by using gas chromatography (GC)

Signature
Home University Advisor.....Ladawan Lerslerwong.....
(Asst. Prof. Dr. Ladawan Lerslerwong)

(For) Host University Advisor.....W. Imsabai.....
(Asst. Prof. Dr.Wachiraya Imsabai)

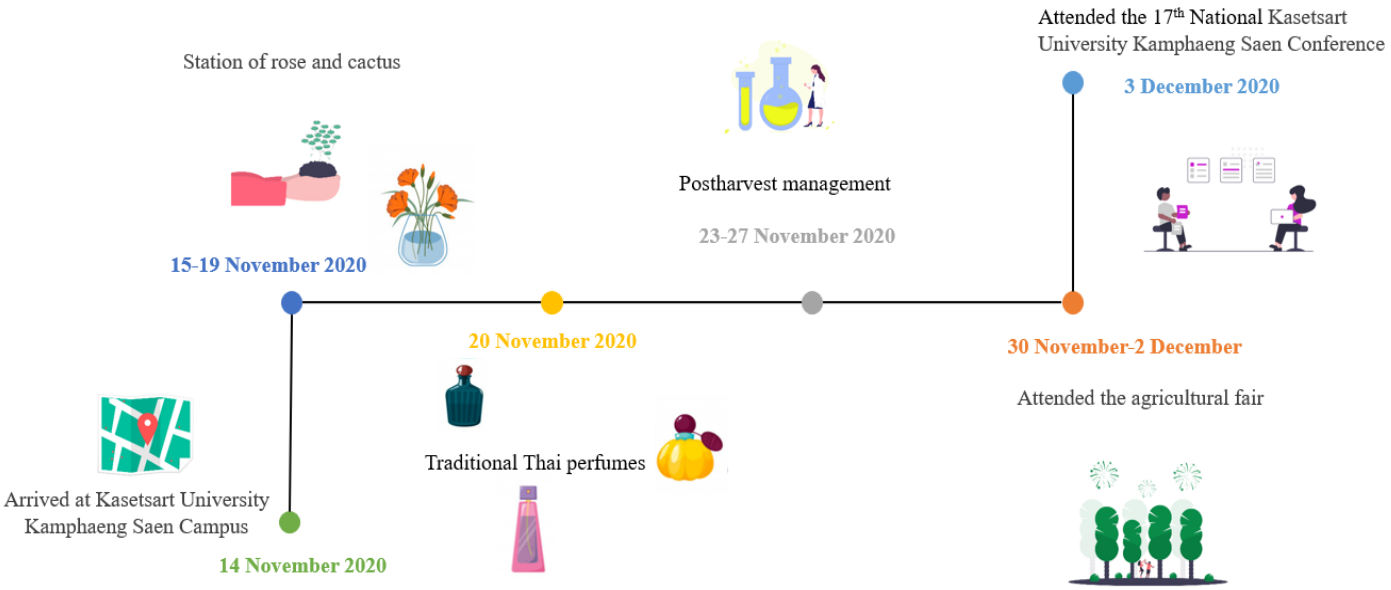
Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Chattamas Promdach
Title of Thesis	Production of Edible Flowers under Greenhouse System
Home University	Prince of Songkla University
Host University	Kasetsart University

Indicators of achievement and or/performance as indicated in the project proposal
1. improving the skills of propagation and transplantation technique on cactus, rose, and papaya
2. leaning and applying of soil media mixing for cactus and rose
3. learning about perfume making and extraction methods
4. improving the skills of postharvest technique on flowers

Activities carried out

Timeline of the activities



Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	Cactus and papaya	16/11/20	18/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University (fields)	- mixing soil media for transplant cactus and dorstenia - study breeding technique for different species of cactus - technique of grafting cactus - identifying the sex of papaya flowers
2	Rose	19/11/20	19/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University (fields)	- mixing soil media for transplant rose stock - test the scent of rose and count rose petals for collecting botanical characteristics data - rose propagation by chip budding technique
3	Traditional Thai perfumes	20/11/20	20/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University	- testing the scent of natural and synthetic fragrances of Thai fragrant flowers - scent extraction from Thai fragrant flowers by using 95 % ethanol - blending the different fragrance to make traditional Thai perfumes
4	Basic postharvest	23/11/20	23/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University	- study on basic of postharvest and evaluation of agricultural product by flow board, colorimeter, color charts, and acidic titration
5	Postharvest of crown flower	24/11/20	27/11/20	Postharvest Technology Center, Kamphaeng Saen, Kasetsart University	- measuring Co_2 by using gas chromatography (GC) for calculated the respiration rate of crown flowers - treating the ethylene gas for crown flowers
6	Attended the agricultural fair	30/11/20	2/12/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University	-setting the booth for the agricultural fair -making the alcohol gel -standby at the booth
7	Attended the 17th National Kasetsart University Kamphaeng Saen Conference	3/12/20	3/12/20	Lecture hall, Kasetsart University Kamphaeng Saen Campus	- attending the conference as an audience

Activities carried out

Activity N° 1: Cactus and papaya **Date:** 16/11/20-18/11/20

Date: 16/11/20

- removed the cactus seedlings from the planting tray and rinsed the roots for transplant into the new pot
- tagged the name/species of the rose after budding for sale

Activities carried out

Activity N° 1: Cactus and papaya **Date:** 16/11/20-18/11/20

Date: 17/11/20

- filled the soil around the cactus greenhouse
- mixed the soil media to transplant cactus and dorstenia
- study breeding technique for different species of cactus
- transplanted the cactus to the new pot
- mixed the soil for transplanting cutting wild rose for rootstock
- transplanted wild rose to a plastic bag (planting bag)

Activities carried out

Activity N° 1: Cactus and papaya **Date:** 16/11/20-18/11/20

Date: 18/11/20

- transplanted papaya seedlings into the field and greenhouse
- study to identifying the sex of papaya flowers
- study to graph cactus on dragon fruit rootstocks

Activities carried out

Activity N° 2: Rose **Date:** 19/11/20

Date: 19/11/20

- mixed the soil media for transplant rose stock
- test the scent of rose and count rose petals for collecting botanical characteristics data
- study on rose propagation by chip budding technique

Activities carried out

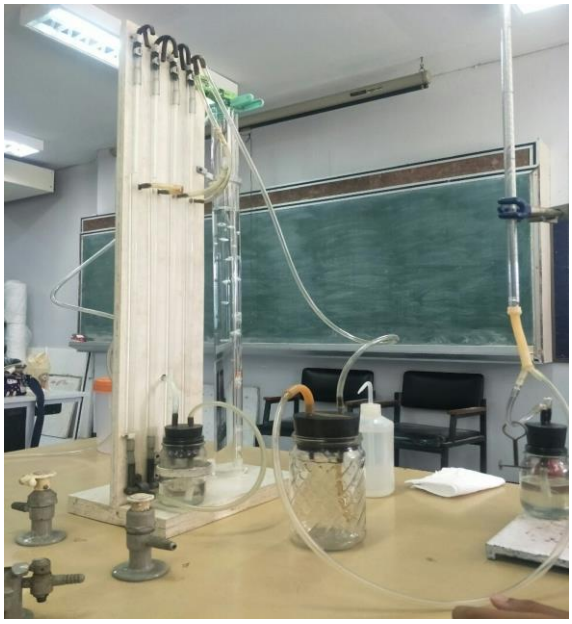
Activity N° 3: Traditional Thai perfumes **Date:** 20/11/20

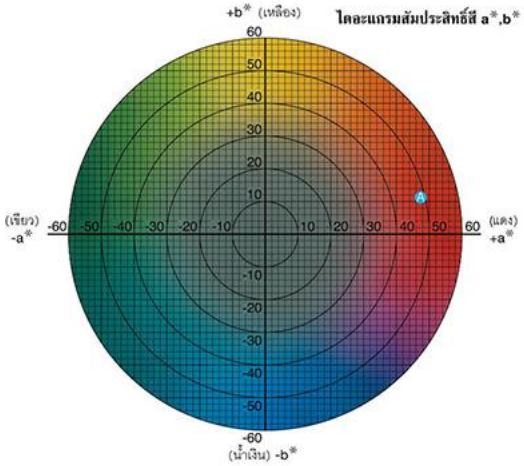
Date: 20/11/20

- test the scent of natural and synthetic fragrances of Thai fragrant flowers
- study to make a perfume base from pandan leaves with lime peel and pandan leaves with pomelo peel
- practiced for scent extraction from Thai fragrant flowers by using 95 % ethanol
- blended the different fragrance to make traditional Thai perfumes

Activities carried out

Activity N° 4: Basic postharvest **Date:** 23/11/20



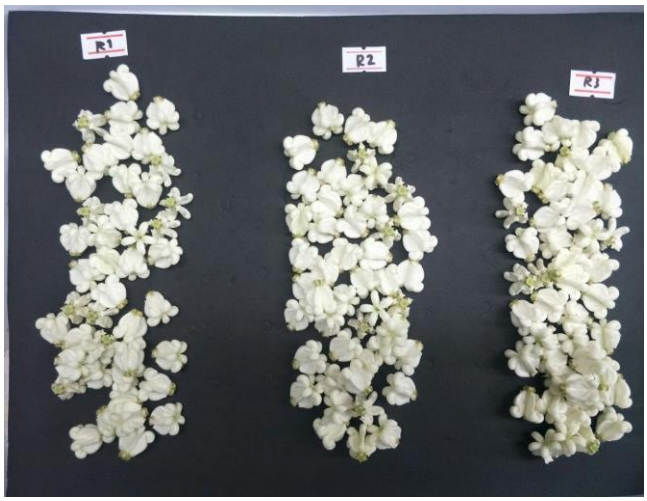


Date: 20/11/20

- study on basic of postharvest and evaluation of agricultural product by flow board, colorimeter, color charts, and acidic titration

Activities carried out

Activity N° 5: Postharvest of crown flower **Date:** 24/11/20-27/11/20



Date: 24/11/20-27/11/20

- measuring Co_2 by using gas chromatography (GC) for calculated the respiration rate of crown flowers

  - selected the perfect crown flower and evaluated the optimal time to collect Co_2

  - before gas injection, the standard of Co_2 must be injected first for calibrate the gas chromatography

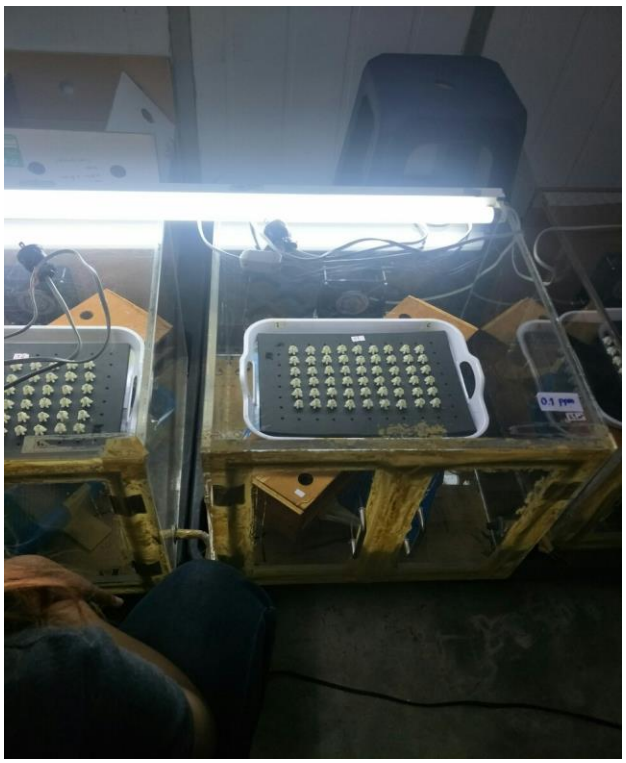
  - The optimum time to collect Co_2 is 10 minutes.

  - collected and injected gas for 5 repetitions until 3 days

  - data will be entered into excel to calculate the respiration rate of the crown flowers

Activities carried out

Activity N° 5: Postharvest of crown flower **Date:** 24/11/20-27/11/20



Date: 24/11/20-27/11/20

- treated the ethylene gas for crown flowers to observe the response of the petals in different level concentration of ethylene

Knowledge gained from being involved in internship

- techniques of transplant cactus and dorstenia and grafting cactus techniques
- techniques for identifying sex of papaya flowers
- rose propagation by chip budding techniques
- known and detected more different scent from Thai fragrant flowers
- scents extraction from Thai fragrant flowers with alcohol technique and the methods of blending traditional Thai perfumes
- postharvest technique of evaluation quality for crown flower by using gas chromatography (GC)

Miss Timapon Artnafai

Home University: Prince of Songkla University

Host University: Kasetsart University

Kasetsart University site: Central Laboratory and Greenhouse Complex Department of Horticulture, Faculty of Agriculture and Postharvest Technology Center, Kasetsart University Kamphaeng Saen Campus Nakhon Pratom, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Ms. Timapon Artnafai
Title of Thesis	Study of Cactus Seed germination and Development os cactus Seedling Media from Goat-Dung Media
Home University	Prince of Songkhla university
Host University	Kasetsart university

Indicators of achievement and or/performance as indicated in the project proposal
1.Rose and papaya
2.Cactus

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	Cactus and papaya	16/11/20	18/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University (fields)	Cactus : transplant cactus and dorstenia, mix soil media, fill soil, cactus breeding techniques, grafting cactus Papaya : transplant papaya, papaya greenhouse system, identifying sex-types papaya flowers
2	Rose	19/11/20	19/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University (fields)	Rose : mix soil media for transplant rose stock, artificial smell test and count rose sepals for identify species, rose propagation by chip budding

Knowledge gained from being involved in internship

- Transplant cactus, dorstenia and techniques, grafting cactus techniques
- Identifying sex-types papaya flowers
- Rose propagation by chip budding

Signature
Home University Advisor.....Ladawan Lerslerwong.....
(Asst. Prof. Dr. Ladawan Lerslerwong)

(For) Host University Advisor.....Kriengsak Thaipong.....
(Asst. Prof. Dr. Dr.Kriengsak Thaipong)

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Ms. Timapon Artnafai
Title of Thesis	Study of Cactus Seed Germination and Development of Cactus Seedling Media from Goat-Dung Media
Home University	Prince of Songkla university
Host University	Kasetsart university

Indicators of achievement and or/performance as indicated in the project proposal
1.Thai perfumes
2. Postharvest : Thai flower, basic postharvest, flow broad
3 Gas chromatography (GC).

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	Traditional Thai perfumes	20/11/20	20/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University,	- Order: Thai flower, Traditional Thai perfumes, natural smell, natural identical smell, artificial smell - Scents extraction from Thai's fragrance flowers with alcohol technique - Mix traditional Thai perfumes
2	Basic postharvest	23/11/20	23/11/20	Department of Horticulture, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University,	- Flow board - Colorimeter - Color charts - Acid titration
3	Postharvest of crown flower	24/11/20	27/11/20	Postharvest Technology Center, Kamphaeng Saen, Kasetsart University,	- Gas chromatography (GC) - Respiration rate of crown flower

Knowledge gained from being involved in internship

- Scents extraction from Thai's fragrance flowers with alcohol technique
- Basic postharvest: flow board, color meter, color charts, acid titration
- Ornamental postharvest technique with Gas chromatography (GC)

Signature
Home University Advisor.....Ladawan Lerslerwong.....
(Asst. Prof. Dr. Ladawan Lerslerwong)

(For) Host University Advisor.....W. Imsabai.....
(Asst. Prof. Dr.Wachiraya Imsabai)

Students under PISAI project
Report on Activities at Host University

For Internship students

Student's Name	Ms. Timapon Artnafai
Title of Thesis	Study of Cactus Seed germination and Development of cactus Seedling Media from Goat-Dung Media
Home University	Prince of Songkhla university
Host University	Kasetsart university

Indicators of achievement and or/performance as indicated in the project proposal
1. Rose and papaya
2. Cactus
3. Thai perfumes
4. Postharvest : Thai flower, basic postharvest, flow broad
5. Gas chromatography (GC)

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	Cactus and papaya	16/11/20	18/11/20	Horticulture fields	Cactus : transplant cactus and dorstenia, mix soil media, fill soil, cactus breeding techniques, grafting cactus Papaya : transplant papaya, papaya breeding techniques, irrigation system, papaya greenhouse, identifying sex-types papaya flowers
2	Rose	19/11/20	19/11/20	Horticulture fields	Rose : mix soil media for rose stock, artificial smell test and count rose sepals for identify species, rose propagation by chip budding
3	Traditional Thai perfumes	20/11/20	20/11/20	Horticulture faculty	- Order: Thai flower, Traditional Thai perfumes, natural smell, natural identical smell, artificial smell - Scents extraction from Thai's fragrance flowers with alcohol technique - Mix traditional Thai perfumes
4	Basic postharvest	23/11/20	23/11/20	Horticulture faculty	- Flow board - Colorimeter - Color charts - Acid titration
5	Ornamental postharvest	24/11/20	27/11/20	Ornamental postharvest room in Central lab	- Gas chromatography (GC) - Ornamental postharvest technique

Activities carried out

Activity N° 1: Cactus, papaya and rose **Date:** 16/11/20-18/11/20










Activities carried out

Activity N° 2: Traditional Thai perfumes **Date:** 20/11/20



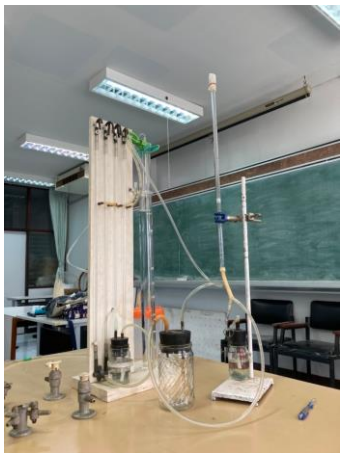




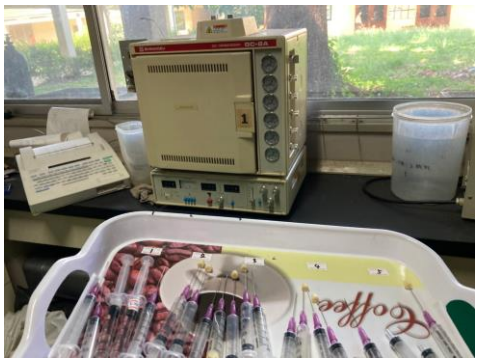
Learn how to make Thai perfumes.
- Order: Thai flower, Traditional Thai perfumes, natural smell, natural identical smell, artificial smell
- Scents extraction from Thai's fragrance flowers with alcohol technique
- Mix traditional Thai perfumes

Activities carried out

Activity N° 3: Postharvest **Date:** 23/11/20-27/11/20





We learn about basic postharvest such as flow board, colorimeter, color charts and acid titration.
Learn about postharvest ornamental plants. By using Gas chromatography (GC) and learn Ornamental postharvest technique in Postharvest Technology Center Kasetsart University Kamphaeng Saen Campus

Knowledge gained from being involved in internship

- Techniques of transplant cactus, dorstenia, succulent and grafting cactus techniques
- Techniques for identifying sex of papaya flowers
- Rose propagation by chip budding techniques
- Scents extraction from Thai's fragrance flowers with alcohol technique.
- Basic postharvest: flow board, color meter, color charts, acid titration
- Ornamental postharvest technique with Gas chromatography (GC)

Miss Jirattikan Yontawong

Home University: Chiang Mai University

Host University: Prince of Songkla University

Internship site: Baan Khao Klang Community Enterprise

Khuan Khanun District, Phatthalung, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	*Jirattikan Yontawong*
Title of Thesis	*Sangyod Rice Value Chain Management of Community Enterprise in Phatthalung Province*
Home University	*Chiang Mai University*
Host University	*Prince of Songkla University*

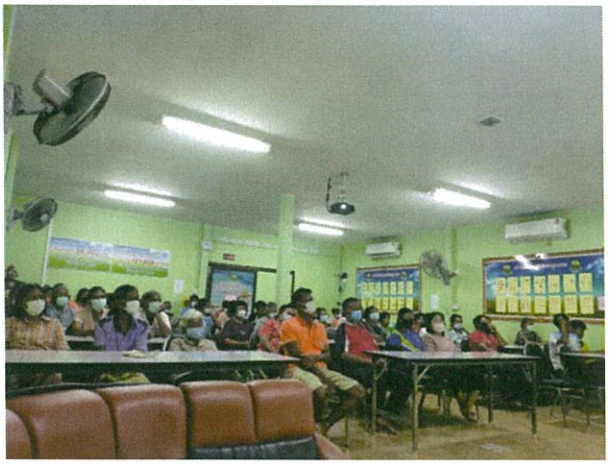
Indicators of achievement and or/performance as indicated in the project proposal
1. To analyze the activities for Sangyod rice value chain of community enterprises in Phatthalung Province
2. To examine the risk management in the Sangyod rice value chain of community enterprise members in Phatthalung Province

Activities carried out

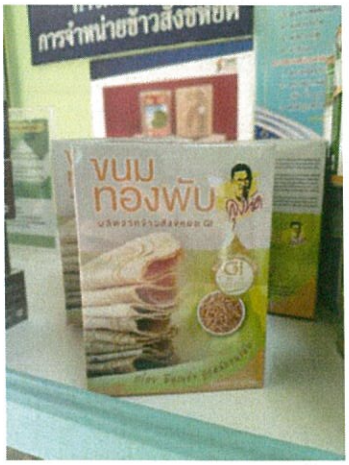
Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	Arriving Phatthalung	06/03/2021	06/03/2021	Phatthalung Province	Introduce myself to the president, secretary, and treasurer of the community enterprise group.
2	Working on literature review and introduction of Ban Kaowklang Community Enterprise	07/03/2021	08/03/2021	Phatthalung Province	I joined the meeting on Thailand Village Fund and I introduce myself to new people. After first day the president told about the history and important events in the past, present, and future. Then I have obtained the community enterprise location survey.
3	Rice processing (Cookie and Thai sweetmeat made of flour, coconut milk and egg)	09/03/2021	10/03/2021	Phatthalung Province	That day, group members demonstrated how to make cookies and Thai sweetmeat made of flour, coconut milk and egg. Raw materials are used in a multitude of products especially Sangyod rice flour, which is used as a main raw material for processing.
4	Rice mill and finished product packing	11/03/2021	13/03/2021	Phatthalung Province	Rice milling is the primary process to transform paddy rice to good quality of white or brown rice that are suitable for personal consumption and food processing. The approximate proportions obtained from milling 1 ton (1,000 kg) are: rice 600 kg, husk 162 kg, bran 15 kg, and other 223 kg. Sangyod rice products include brown rice, rice germ, rice flour, and cookies, etc.
5	Marketing	19/03/2021	20/03/2021	Phatthalung Province	The main distribution channels are stores, OTOP centers and post offices. They have sales channel covers both online and

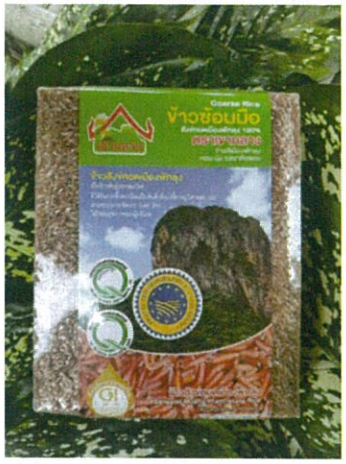
					offline.
6	Rice production, management of community enterprise and Financial	22/03/2021	23/03/2021	Phatthalung Province	The annual rice planting season starts in August. In the village, rice is cultivated in a dry field. Most farmers prepare the soil twice before sowing the grain and use less chemical fertilizers. Not using herbicides. The harvesting period is from January to February. There are 3 full-time employees. They have their own principles of management. As for finance, there is an annual balance sheet.
7	Field study at Sangyod rice community enterprises in Khuan Khanun district	24/03/2021	24/03/2021	Phatthalung Province	Study visit for 2 community enterprises, which are Community Enterprise Demonstration Center, Thachang Economic Rehabilitation Community Enterprise and Community enterprise, the farmer's group of women Saiyaomounchon.
8	Learning summary	25/03/2021	25/03/2021	Phatthalung Province	Summary of learning throughout the internship.

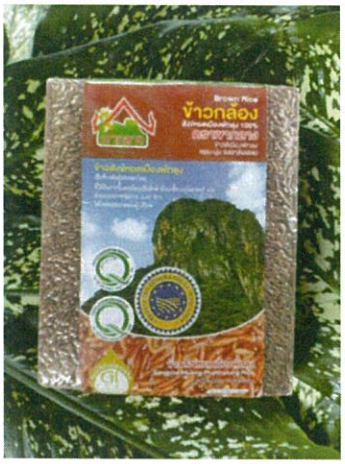
Thailand Village Fund Meeting

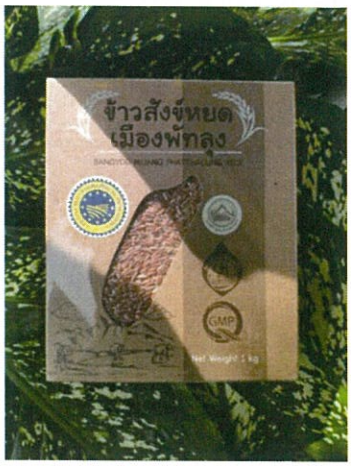


Product



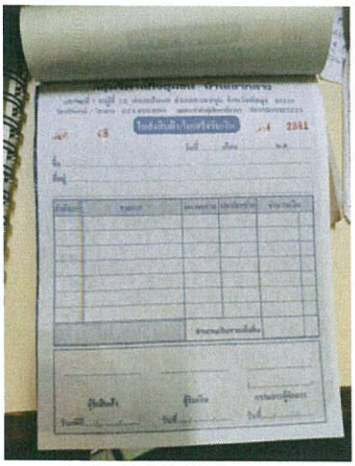


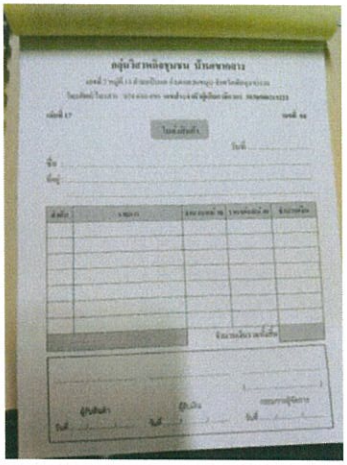




Packing

Documents



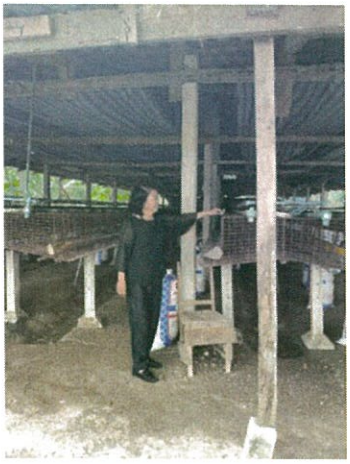


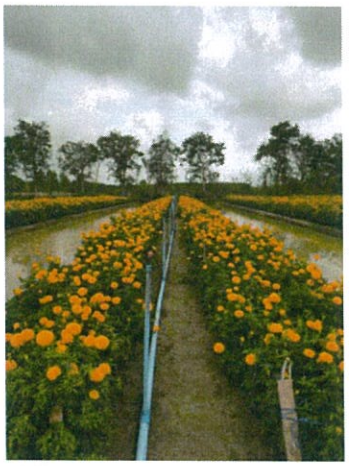
Field study


ทองพับ


Sang Yod Rice Soap
สบู่ข้าวสังข์หยด


ข้าวสังข์หยด เมืองพัทลุง
ตราไชยา ข้าวซ้อมมือ





Knowledge gained from being involved in internship

- Learned about the management process from rice production to final product.
- Applied the educational knowledge for adjust the problem meet in business.
- Gained new knowledge which could not find in a text book such as dialect, work experience, culture and new friendship.
- Can develop/improve data for my thesis.

Signature.....

Home University Advisor
Assistant Professor Dr. Pornsiri Suebpongsung
Chiang Mai University

Signature.....

Host University Advisor
Professor Dr. Buncha Somboonsuke
Prince of Songkla University

Miss Kawintip Kongin

Home University: Chiang Mai University

Host University: Prince of Songkla University

Internship site: Baan Bang Khem Community Enterprise

Pak Phanang District, Nakhon Si Thammarat, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Kawintip Kongin
Title of Thesis	Value Chain Management of Tilapia for BaanBangKhem community enterprises in Pak Phanang District, Nakhon si Thammarat Province
Home University	Chiang Mai University
Host University	Prince of Songkla University

Indicators of achievement and or/performance as indicated in the project proposal
1.To study value chain management Tilapia production of BaanBangKhem community enterprises in Pak Phanang District, Nakhon si Thammarat Province
2. To study the guidelines value chain management Tilapia production of BaanBangKhem community enterprises in Pak Phanang District, Nakhon si Thammarat Province

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	- Introduction of BaanBangKhem community enterprise and Suppanut Farm -Observe and learn the process of selling tilapia fish	07/03/2021	11/03/2021	Nakhon si Thammarat Province	Learn about tilapia fish farming - How to feed tilapia fish in ponds - Keep pond water clean For Example Choose the right size pump for pond or Clean debris from pond - Observing behavior in fish learn about selling the tilapia - Refrain from feeding before sell 1 day - Fish Weighing for sale
2	Test Pond Water Quality	12/03/2021	13/03/2021	Nakhon si Thammarat Province	Basic water quality -Test PH - ammonium test kit - Nitrite test Kit
3	Field study tilapia fish farming in cages at Surat Thani province	19/03/2021	20/03/2021	Surat Thani province	- Field study tilapia fish farming in cages at Surat Thani province - The differences in farming of tilapia ponds and cages - Observed fish diseases
4	Fry Nursing	21/03/2021	21/03/2021	Nakhon si Thammarat Province	- pond preparation for tilapia - Consider temperature of water and weather when released tilapia into the pond

5	Tilapia production and community enterprise management	22/03/2021	24/03/2021	Nakhon si Thammarat Province	- Learn how to make processed food from tilapia - Processing tilapia such as fish filleting, marinate -Packing - Packaging design

Activities carried out

Activities N° 1





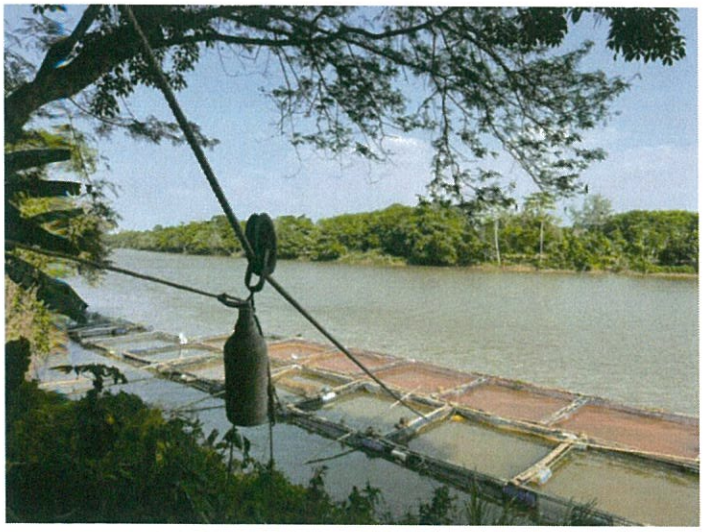




Activities N° 2

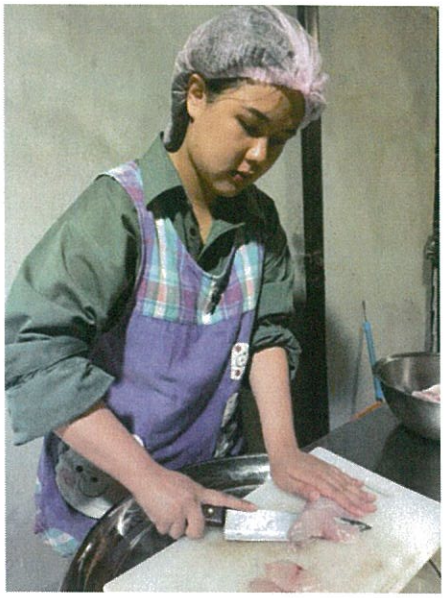

PARA
Ammonium Test
Reagent
1
2
3
5.0
3.0
2.0
1.0
0.5

Activities N° 3



Activities N° 4

Activities N° 5



Knowledge gained from being involved in internship

- New experience for learn in farm
- Language and culture adaptation of living with others
- Knowledge about tilapia fish farming and Processed Tilapia

Signature.....

Home University Advisor
Assistant Professor Dr. Pornsiri Suebpongsung
Chiang Mai University

Signature.....

Host University Advisor
Professor Dr. Buncha Somboonsuke
Prince of Songkla University

Miss Ploiphailin Tantiwit

Home University: Chiang Mai University

Host University: Prince of Songkla University

Internship site: Agro-Farmer Market of Faculty of Natural Resources, Prince of Songkla University (PSU), Songkhla, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	*Ploiphailin Tantiwit*
Title of Thesis	*Technical Efficiency of Soybean Production in Chiang Mai Province.*
Home University	*Chiang Mai University*
Host University	*Prince of Songkla University*

Indicators of achievement and or/performance as indicated in the project proposal
1. To know the nature of production, use of inputs Problems and obstacles in soybean production among farmers in Chiang Mai Province.
2. To analyze the technical efficiency of soybean production of farmers in Chiang Mai province.
3. To analyze the factors affecting the efficiency of soybean production of farmers in Chiang Mai Province.

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	-Briefing at Agri-Farmer Market (history/regulation/food sanitary/farm inspection) - Working on literature review and introduction of Agri-Farmer Market, Prince of Songkla University -Sell daifuku and observe target group	09/03/2021	09/03/2021	Farmer Market at Faculty of Natural Resources, Prince of Songkla University.	-Learn about general of the agricultural market and Sanitation Training, Training for toxic test in fruits and vegetables. -On-site survey market whether it is according to the Brief or not - Sell Daifuku to study and see what is target group of this market.
2	-On-site survey Market at Agri-Farmer Market -Sanitation inspection -Sell product and observe target group	10/03/2021	10/03/2021	Farmer Market at Faculty of Natural Resources, Prince of Songkla University.	-On-site survey Market and Study all businesses of the market.(market, minimart, coffee shop, bakery shop) -Learn about the management of each department. -Check the sanitation to know the level of sanitation is in the market. - Learn about what is target group of this market.
3	-Farm inspection practice/market research and collect data with a farmer 4 farmer (first round) 1. Mr.Khumnung	11/03/2021	11/03/2021	Songkla Province.	- Agricultural inquiries of 4 farmers - Explore the vegetable farm of 4 farmers - Check if the chemicals are used. - Make sure that the vegetables the

	Soisrimak 2. Ms. Jiraporn Chusang 3. Mr. Arun Madbillhead 4. Mr. Anuwat Lapkitro				farmer sell are those from the farm.
4	-Help the farmers to sell the products.	12/03/2021	12/03/2021	Farmer Market at Faculty of Natural Resources, Prince of Songkla University.	-Help the farmers to sell the products. -Observe the target customers of farmers.
5	-Farm practice at Agri-Farmer Market network (K.Jirawan's farm)	13/03/2021	13/03/2021	K.Jirawan's farm	-Help farmers gardening - Agricultural inquiries - Learn the steps of farming - Learn about farmers' lifestyle
6	- Study about how to arrange light meal	15/03/2021	17/03/2021	Faculty of Natural Resources, Prince of Songkla University.	-Study about how to arrange light meal -Practice planning before work. -Practice to solving unexpected problems.
7	-Help (K.Jirawan) to sell the products.	19/03/2021	19/03/2021	Farmer Market at Faculty of Natural Resources, Prince of Songkla University.	-Help K.Jirawan to sell the products. -Observe the target customers of K.Jirawan
8	Farm practice at Agri-Farmer Market network (K.Jirawan's farm)	20/03/2021	20/03/2021	K.Jirawan's farm	-Help farmers gardening - Agricultural inquiries - Learn the steps of farming - Learn about farmers' lifestyle
9	-On-site survey and help the farmers to sell the products. (from the Farm inspection practice in 23/03/2021)	22/03/2021	22/03/2021	Farmer Market at Faculty of Natural Resources, Prince of Songkla University.	-Help the farmers to sell the products. -Observe the target customers of farmers.
10	Farm inspection practice/market research and collect data with a farmer (Second round)	23/03/2021	23/03/2021	Songkla Province.	- Agricultural inquiries - Explore the vegetable farm - Check if the chemicals are used. - Make sure that the vegetables the farmer sell are those from the farm.
11	Practice on fruit and vegetable inspection at Agro-Farmer Market (Collecting and testing sample/preparing a report)	24/03/2021	24/03/2021	Farmer Market at Faculty of Natural Resources, Prince of Songkla	-Collecting sample -Test Salicylic acid -Test Borax -Test Formalin -Test Sodium hydrosulfite - Tell the results of the survey

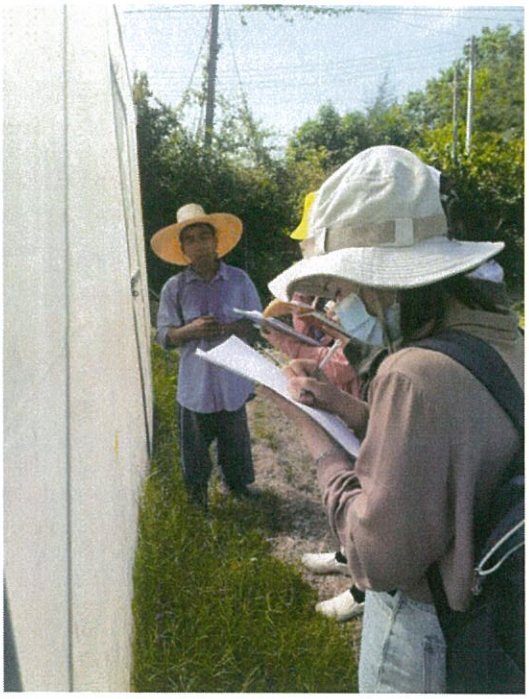
				University.	

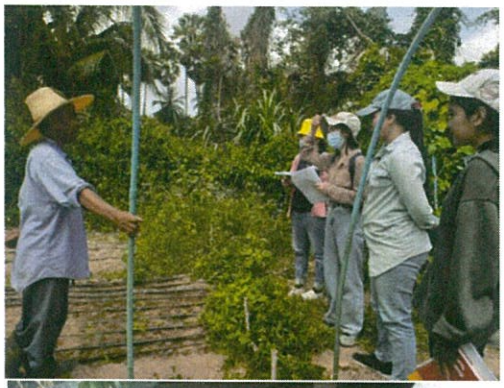
Activities carried out

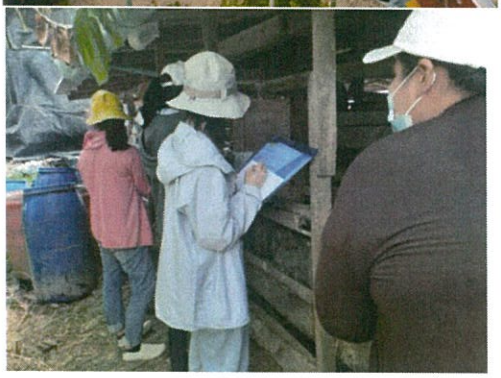
Activity N° 1: Briefing at Agri-Farmer Market **Date:** 09-03-2021

Activity N° 2: on-site survey Market at Agri-Farmer Market **Date:** 10-03-2021

Activity N° 3: Farm inspection practice **Date:** 11-03-2021







Activity N° 4: Help the farmers to sell the products. **Date:** 12-03-2021

Activity N° 5: Farm practice at Agri-Farmer Market network (K.Jirawan's farm) **Date:** 13-03-2021



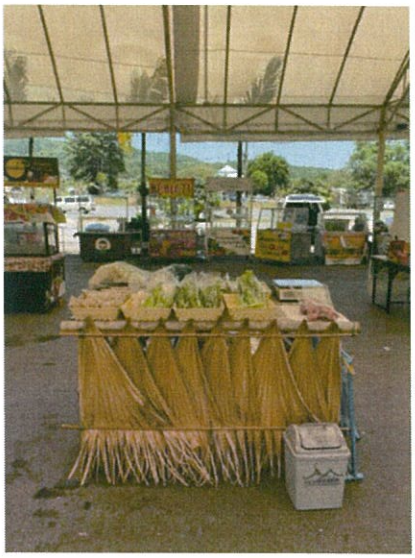


Activity N° 6: Learn and do it about how to arrange light meal **Date:** 15-03-2021 **to** 17-03-2021



Activity N° 7: Help (K.Jirawan) to sell the products. **Date:** 19-03-2021





Activity N° 8: Farm practice at Agri-Farmer Market network (K.Jirawan' s farm)**Date:** 20-03-2021






Activity N° 9: On-site survey and help the farmers to sell the products.**Date:** 22-03-2021



Activity N° 10: Farm inspection practice. **Date:** 23-03-2021



Activity N° 11: Practice on fruit and vegetable inspection **Date:** 24-03-2021

Knowledge gained from being involved in internship

-Planning for work.
- Practice to solving unexpected problems.
- Practice responsibilities.
- Learn the steps of farming.
- Learn about farmers' lifestyle.
-Learn to work as a team.
-Learn to work with other people.

Signature.....
Home University Advisor
Assistant Professor Dr. Pornsiri Suebpongsung
Chiang Mai University

Signature.....
Host University Advisor
Professor Dr. Buncha Somboonsuke
Prince of Songkla University

Miss Ammarin Auparakat

Home University: Chiang Mai University

Host University: Prince of Songkla University

Internship site: Agro-Farmer Market of Faculty of Natural Resources, Prince of Songkla University (PSU), Songkhla, Thailand

Students under PISAI project
Report on Activities at Host University
For Internship students

Student's Name	Miss Ammarin Auparakat
Title of Thesis	Value Chain Management of the Golden Dried Longan Community Enterprise in Lamphun Province.
Home University	*Chiang Mai University*
Host University	*Prince of Songkhla university*

Indicators of achievement and or/performance as indicated in the project proposal
1. Learning Agricultural Market Management Internship under the PISAI Program (Module 4) at Agri-Farmer Market, Prince of Songkla University.
2. Student's responsibility
3. Adaptation to assignment
4. Learning achievement
5. Personal adaptation to the host/farmers' family/company
6. Communication skill
7. Willingness to volunteer for tasks apart from the assignment

Activities carried out

Activity N°	Activity Title	Start date	End date	Place	Description of the activity carried out
1	-Briefing at Agri-Farmer Market (history/regulation/food sanitary/farm inspection) -Working on literature review and introduction of Agri-Farmer Market, Prince of Songkla University -Sell product and observe target group	09/03/2021	09/03/2021	Agri-Farmer Market,	- Listen to lectures on the history and background of the agricultural market and food sanitation training. And regulations of the agricultural market Observe and listen to the introduction of the Agricultural Market. - Explore the markets and businesses of the Kasetmor Market (coffee shop, minimart) and help sell things at the storefront. And observe the group of customers who come to serve
2	- sanitation inspection -Sell product and observe target group -	10/03/2021	10/03/2021	Agri-Farmer Market,	- Check the shop sanitation And business owners in the agricultural market - Help sell things at the store And observe the group of customers who come to serve
3	Farm inspection practice/market research and collect data with a farmer (first round)	11/03/2021	11/03/2021	Songkla Province.	- Check the dealer conversion 1. K' Arun Madbillhead Product: organic vegetables 2. K' Jiraphon Chusang Product: Brown rice, rice berry, jasmine rice, fragrant

					rice Black jasmine rice, Nam Wa banana, coconut juice 3.K' KamNụng SoisriMak Product: organic vegetables 4. Mr. Anuwat Laphakitro Product: organic vegetables
4	-Help the farmers to sell the products.	12/03/2021	12/03/2021	Agri-Farmer Market,	- Help sell farmers' products that have been inspected on the plot on 11/03/2021 to study the products that are planted and in front of the store. Observe sales characteristics And arranging products in front of the store And customers who come to buy things in each store
5	Farm practice at Agri-Farmer Market network (K.Jirawan's farm)	13/03/2021	13/03/2021	K.Jirawan's farm	Plan to help farmers, Mr. Jirawan Tasara Activities 1. Learn to grow vegetables. 2. Learn how to grow vegetable seeds in nursery pots. 3. Learn how to mix soil for growing vegetables.
6	- Learn and do it about how to arrange light meal	15/03/2021	17/03/2021	Prince of Songkla University	- Learn how to arrange snacks. At the closing meeting of the PISAI project
7	- Help (K.Jirawan) to sell the products.	19/03/2021	19/03/2021	Agri-Farmer Market,	- Help K' Jirawan Sell farm products Study product placement,And the decoration of vegetables before selling And observe the characteristics of customers who come to use the service - Interview with Jirawan's personal history
8	Farm practice at Agri-Farmer Market network (K.Jirawan's farm)	20/03/2021	20/03/2021	K.Jirawan's farm	Plan to help farmers, Mr. Jirawan Tasara Activities 1. Learn to grow peanuts. 2. Learn how to grow vegetables in nursery pots. 3. Learn to grow vegetables on the planting table. 4. Learn how to decorate onion divider for planting.
9	-survey the farmers to sell the products.	22/03/2021	22/03/2021	Agri-Farmer Market,	Survey farmers who sell farmers' products who will visit the plot on 23/03/2021 to see the products at the store. Observe sales characteristics, and arranging products in front of the store and customers who come to buy things in each store

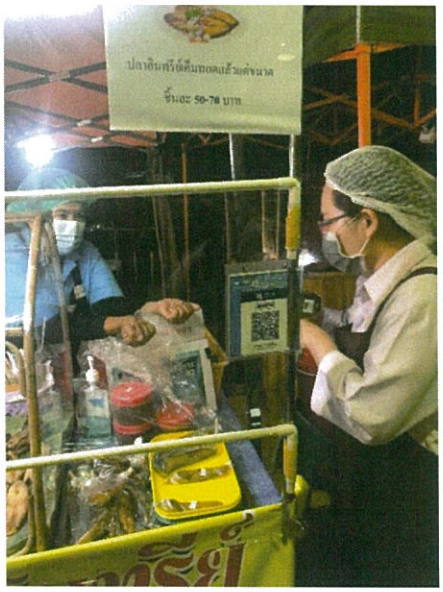
10	Farm inspection practice/market research and collect data with a farmer (Second round)	23/03/2021	23/03/2021	Songkla Province.	- Check the dealer conversion 1. K' Suthida Sahaviriya Product: Mushroom and Vegetable Safe 2. K' Songyos Suwannanon Product: organic vegetables 3. K' Thanatcha Boonsak Product: mulberry and vegetable safe 4. K' Rewadee Chindamanee Product: safe vegetables and fruits 5. Kritsamai Farm Product: Salad, melon, cucumber, long bean, kale
11	Practice on fruit and vegetable inspection at Agro-Farmer Market (Collecting and testing sample/preparing a report)	24/03/2021	25/03/2021	Agri-Farmer Market,	Samples of food from shops, agricultural market. To come to check chemicals (bleach, mold, borax, for marine) - Practice in fruit and vegetable inspection at the agricultural market and testing for chemical testing in vegetables and fruits. - Check the list of agriculture that sell vegetables that meet the organic standards, safe vegetables, and check the basket color.

Activities carried out

Activity N° 1: Briefing at Agri-Farmer Market (history/regulation/food sanitary/farm inspection), Working on literature review and introduction of Agri-Farmer Market, Prince of Songkla University and Sell product and observe target group
Date: 09/03/2021

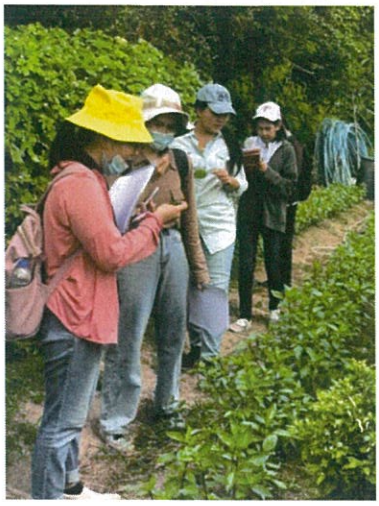
Activities carried out

Activity N° 2: sanitation inspection
Date: 10/03/2021



Activities carried out

Activity N° 3 and 10: Farm inspection practice/market research and collect data with a farmer
Date: 11/03/2021, 23/03/2021



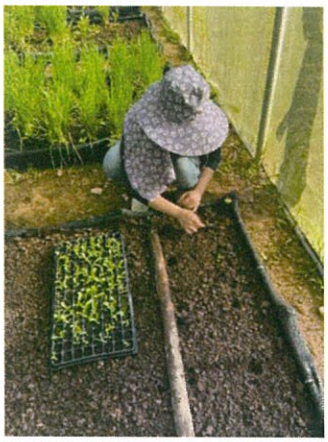
Activities carried out

Activity N° 4 and 9: survey the farmers to sell the products
Date: 12/03/2021, 22/03/2021

Activities carried out

Activity N° 5 ,7 and 8: Farm practice at Agri-Farmer Market network (K.Jirawan's farm) and Help (K.Jirawan) to sell the products

Date: 13/03/2021, 19-20/03/2021



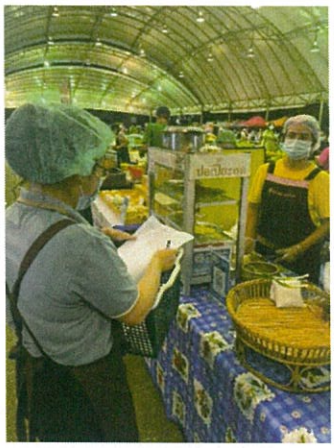
Activities carried out

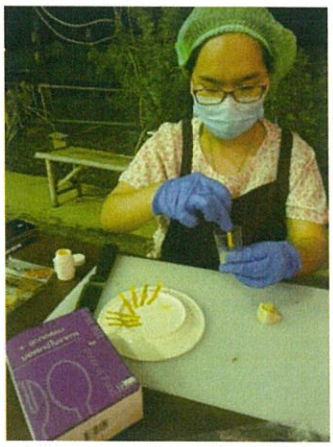
Activity N° 6: Learn and do it about how to arrange light meal
Date: 15-17/03/2021

Activities carried out

Activity N° 11: Practice on fruit and vegetable inspection at Agro-Farmer Market (Collecting and testing sample/preparing a report)

Date: 24/03/2021-25/03/2021





Knowledge gained from being involved in internship

1. Knowledge of market management.
2. Inspection of farmer plots According to Organic Thailand and Safe vegetables.
3. Food and store sanitation inspection
4. How to determine chemicals in food.
5. Catered for in the conference.
6. Adaptability and skills in working with others.

Signature……

Home University Advisor
Assistant Professor Dr. Pornsiri Suebpongsung
Chiang Mai University

Signature……

Host University Advisor
Professor Dr. Buncha Somboonsuke
Prince of Songkla University