



## Course Syllabus First Semester, Academic Year 2024

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| <b>1. Faculty of Agriculture at Kamphaeng Saen</b>   | <b>Department of Farm Mechanics</b>   |
| <b>2. Course code:</b> 02027499<br><b>Credit:</b> 1(0-10-5)<br><b>Pre:</b>   | <b>Course name:</b> Specific Practicum in<br>Agricultural Machinery and<br>Mechatronics |
| <b>3. Instructor team:</b><br>Assoc.Prof. Pongsak Chontanasawat      E-mail: agrpoc@ku.ac.th<br>Dr. Sunattha Attisilwet                      E-mail: Sunattha.at@ku.th<br>Dr. Chawalit Khanakornsuksan              E-mail: chawalit.kh@ku.ac.th |   |

### 4. Providing students with access to and advice outside of class hours:

Working days During official hours, except during teaching periods or when on official business outside of the premises. In case of emergency, students can contact us via Line group or Mobile phone.

### 5. Course Objectives:

5.1 Students gain knowledge and experience from working in business establishments or relevant organizations.

5.2 Students receive practical training in the operation of agricultural machinery and mechatronics, as well as in professional practices related to agricultural engineering in business establishments or relevant organizations.

5.3 Students develop ethical skills, including morality, discipline, punctuality, honesty, and responsibility toward themselves and society through their work in business establishments.

5.4 Students are able to work collaboratively with others as both effective leaders and team members and are able to adapt appropriately to various situations.

### 6. Course Description

Specific practicum in agricultural machinery and mechatronics.

### 7. Program Learning Outcomes: PLOs (7 PLOs of the 2017 AMM revised curriculum)

PLOs	Knowledge	Specific skills	Generic skill	Attitude
PLO4: Be able to search pursue academic progress and integrate knowledge of agricultural machinery and technology in agriculture.	- Principles of searching and monitoring academic progress in agricultural machinery and technology in agricultural science.	-Possesses skills in performing assigned tasks. -Demonstrates skills in analysis, synthesis, and problem-solving through the integration of knowledge in agricultural machinery and technology. -Has effective speaking, communication, and interpersonal skills, with the ability to adapt to colleagues at all levels. -Has the ability to research and keep up with academic advancements in agricultural machinery and technology.	-Technical academic vocabulary (in English) in the field of agricultural machinery and technology -Computer and IT skills in agriculture	-Keeps up to date with news and information related to agricultural science. -Has a passion for the profession and loyalty to the educational institution.

		-Possesses presentation skills for communicating academic progress in agricultural machinery and technology.		
PLO5: Be shown to morality, ethics, discipline, punctuality, honesty, responsibility towards oneself and society.	- University regulations for higher education of Kasetsart University	-Able to appropriately adjust behavior during internship training.  -Possesses a positive attitude toward oneself, others, and society.	- Behave appropriately and serve as a good role model - Comply with university regulations and refrain from misconduct - Participate in various activities with intention and willingness	- Be responsible - Punctuality - Honesty. - Ability to work collaboratively with others. - Develop a passion for the profession
PLO6: Be able to communicate their knowledge of agricultural machinery and technology which is appropriate to both in the academic section and the agricultural community.	-Presentation techniques in both writing and oral delivery. -Able to use technical terminology in both Thai and English.	- Able to present academic progress in agricultural machinery. - Able to use academic terminology (in Thai and English) related to agricultural machinery and technology. - Able to explain agricultural machinery and technology knowledge to local communities.	- Confidence in presentation - Safety in work practices	
PLO7: Be able to work with others as good leaders and members, and able to adapt to different situations appropriately.		- Interpersonal skills for working with others and the ability to work effectively as part of a team. - Leadership and followership skills, with a willingness to listen to colleagues' opinions. - Problem-solving skills in various situations.	- Possess presentation skills and the ability to listen to colleagues' opinions	- Has a positive attitude toward living and working with others. - Adapts appropriately to different environments.

## 8. Course Learning Outcomes: CLOs and methods for measuring learning outcomes

Course Learning Outcomes: CLOs	Methods for measuring learning outcomes	PLOs
CLO1: Gained real-world work experience and problem-solving skills through internship training in agricultural machinery and mechatronics organizations, both in the private and public sectors.	1.Evaluation results in all aspects—including knowledge, morality, and ethics—of the student's performance as assessed by the internship host organization.  2. Assessment of the quality of the student's internship report.  3. Presentation of the internship summary to share experiences, suggestions, and areas for improvement.  4. Evaluation by the supervising faculty member through a joint meeting with the workplace supervisor, faculty, and the student at the internship site.	PLO4 PLO5 PLO6 PLO7
CLO2: Able to adapt to working with others and understand the rules and regulations of the host organization.		
CLO3: Demonstrates responsibility, integrity, morality, discipline, punctuality, honesty, and accountability to oneself and society.		
CLO4: Possesses teamwork skills as both a good leader and a member, with the ability to adapt appropriately to various situations.		

## 9. Academic achievement measurement (%)

The organization providing the internship evaluates the student's work performance.

**Total 100%**

Score level	>=80	75-79	70-74	65-69	60-64	55-59	50-54	<50
Grade	A	B+	B	C+	C	D+	D	F

## 10. Documents to read:

Books, journals, research reports, research articles, and other up-to-date documents related to agricultural equipment, agricultural machinery tools, and other equipment relevant to the internship at each training site.

## 11. Evaluation of teaching results:

From the student's questionnaire, students must evaluate their teaching results at [www.kps.ku.ac.th](http://www.kps.ku.ac.th) (go to Students, Teaching System) with the university's teaching evaluation form before the mid-term and final exams.

## 12. Review to improve teaching methods and teaching systems:

- ☐ No review because students .....
- ☒ Reviewed by reviewing from the recommendation of the student evaluation, results of course evaluation and supervision of work at the workplace.
- ☐ Not revised.....
- ☒ Revised to be consistent with the course evaluation results include improvements to the internship procedures and criteria through a student meeting held on the first day of the semester to clarify details and guidelines for the internship as follows:
1. Selection of the workplace: Students can choose from a list of organizations provided by the department and are also allowed to propose other organizations they are interested in for the department's consideration.
  2. Qualifications of students eligible for internships and preparation prior to starting the internship.
  3. Explanation of the rules and regulations that students must follow during their internship at the workplace.
  4. Specific rules and regulations of each workplace that may have particular restrictions.
  5. Students must select or propose a workplace from the list provided by the department or other organizations of interest within two weeks after the semester starts, to coordinate and arrange the internship with the respective workplace.


## Teaching improvement from teaching evaluation results:

- ☐ No teaching evaluation
- ☒ Teaching evaluation
- ☒ No improvement, No evaluate in this course .....
- ☐ Improvements as follows.....

## 13. Schedule of activities related to teaching and learning

Teaching/Learning method	Assessment	Instructors	CLOs	PLOs
<b>1. In the midterm of the first semester of the 2023 academic year, preparations are made for the organizations/agencies that kindly support the internship program.</b>		Pongsak and colleagues		
-Contact and compile a list of organizations that kindly support the internship, and inform students to register for internships at their preferred organizations, with no more than 2 students per organization. -In cases where students can coordinate directly with internship sites related to their field of study, they may inform the program for further contact.				

<b>2. Before starting the internship at the workplace (the last week of classes in the second semester of the 2023 academic year).</b>		Pongsak and colleagues	CLO1 CLO2 CLO3 CLO4	PLO4 PLO5 PLO6 PLO7
Orientation for preparation before starting the internship at the workplace or relevant organization, to clarify details and answer questions regarding the internship, including: <ul style="list-style-type: none"><li>- CLOs and PLOs of the internship course 02027499</li><li>- University internship regulations</li><li>- Communication and coordination with the internship organization and faculty members</li><li>- Transportation and accommodation during the internship</li><li>- Guidelines for the internship, such as dress code, compliance with the rules of the internship organization, university and program regulations, sick leave/personal leave, etc.</li><li>- Issues that have arisen during past internships and their solutions:</li><li>- Internship evaluation criteria</li><li>- Preparation of internship reports and presentations upon completion of the internship</li><li>- Other questions from students</li></ul>				
<b>3. During the internship at the workplace (8 weeks during the summer break of the 2024 academic year).</b>		Supervisor / Internship Coordinator	CLO1 CLO2 CLO3 CLO4	PLO4 PLO5 PLO6 PLO7
- Perform practical training at the workplace or relevant organization.	1. Internship Evaluation by the Supervisor Assigned by the Organization, including the following criteria: 2. Responsibility, discipline, diligence, perseverance, punctuality, and honesty 3. Interpersonal skills in working with others and willingness to help colleagues 4. Leadership and followership qualities 5. Enthusiasm for learning and training 6. Knowledge and skills acquired from the curriculum that can be applied to work at the internship organization 7. Problem-solving skills in the workplace 8. Keeping up-to-date with relevant academic and professional information 9. Other suggestions from the internship organization for curriculum improvement			
<b>4. Upon completion of the internship (at the beginning of the first semester of the 2024 academic year).</b>		Pongsak and colleagues	CLO1 CLO2 CLO3 CLO4	PLO4 PLO5 PLO6 PLO7
- Presentation of the internship summary by the student. - Submission of the internship report.	- All students present and answer questions regarding their internship results. - Provide feedback to help students improve their presentation skills. - Evaluate the quality of the internship reports.			

  
 Signature  
 (Assoc.Prof. Pongsak Chontanasawat)  
 24 June, 2024