

Course Syllabus Second Semester, Academic Year 2024

1. Faculty of Agriculture at Kamphaeng Saen

2. Course code: 02027498 Credit: 3(0-3-6) Pre: -

3. Instructor team:

Assoc.Prof. Pongsak Chontanasawat Asst. Prof. Dr. Sombat Khawprateep Asst.Prof. Nontawat Chainarong Dr. Sunattha Attisilwet Dr. Chawalit Khanakornsuksan Mr.Thawatchai Koedsuk Mr. Pavit Tangwongkit

Department of Farm Mechanics

Course name: Special Problem

E-mail: agrpoc@ku.ac.th E-mail: agrsbk@ku.ac.th E-mail: agrtnc@ku.ac.th E-mail: Sunattha.at@ku.th E-mail: chawalit.kh@ku.ac.th E-mail: thawatchai.koed@ku.ac.th E-mail: ptangwongkit@gmail.com

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 understand how to conduct literature reviews and gather information for developing a research proposal.

5.2 Students are able to design and plan research, conduct experiments, analyze results, and prepare a written report in the form of a special project paper.

6. Course Description

Special problems in agricultural machinery and mechatronics at the bachelor's degree level and compile into a written report.

PLOs	Knowledge	Specific skills	Generic skill	Attitude
PLO4: Be able to	- Principles of	-Able to search and	-Technical	- Be responsible
search pursue	searching and	monitor academic	academic	- Punctuality
academic	monitoring	progress in agricultural	vocabulary (in	- Honesty.
progress and	academic progress	machinery and	English) in the	- Ability to work
integrate	in agricultural	technology.	field of	collaboratively
knowledge of	machinery and	-Able to analyze,	agricultural	with others.
agricultural	technology in	synthesize, and design	machinery and	- Develop a
machinery and	agricultural	problem-solving	technology	passion for the
technology in	science.	approaches by	-Computer and	profession
agriculture.		integrating knowledge	IT skills in	- Has a passion
		in agricultural	agriculture	for the profession
		machinery and		- Keeping up
		technology.		with relevant
		-Possess presentation		academic news
		skills in conveying		and information.
		academic progress in		
		agricultural machinery		
		and technology.		

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

PLO5: Be shown to morality, ethics, discipline, punctuality, honesty, responsibility towards oneself and society.	- University regulations for higher education of Kasetsart University - Wisdom of the Land วิชาการศาสตร์แห่งแผ่นดิน	 Able to adapt and develop proper learning behaviors. Has a positive attitude toward self, others, and society. 	-Behave appropriately and serve as a good role model -Comply with university regulations and refrain from misconduct -Participate in	 Be responsible Punctuality Honesty. Ability to work collaboratively with others. Develop a passion for the profession
			activities with intention and willingness	
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.	 Principles of using Thai language Principles of using English language Techniques for both writing and oral presentation Proper use of communication technology 	 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	 Be responsible Punctuality Ability to work collaboratively with others. Has a passion for the profession Keeping up with relevant academic news and information.
PLO7: Be able to work with others as good leaders and members, and able to adapt to different situations appropriately.	-Regulations for Higher Education at Kasetsart University -Principles of the Knowledge of the Land	Able to correctly write and present project proposals.	-Possess presentation skills and the ability to listen to colleagues' opinions	-Possess leadership qualities -Demonstrate responsibility and discipline in work -Be diligent and perseverant - Ability to work collaboratively with others.

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

Course Learning Outcomes: CLOs	Methods for measuring learning outcomes	
CLO1: Students are able to conduct	1.Faculty evaluate topics of study, analyze, plan,	PLO4
research following the principles and	and solve problems in the academic field of	PLO6
methodologies of agricultural	agricultural machinery and mechatronics.	
machinery and mechatronics.	2.Present work in the form of a special project	
CLO2: Students can write academic	report.	
reports in the field of agricultural		
machinery and mechatronics.		
CLO3: Students are responsible, moral,	3. Observing behavior, attending class, punctuality,	PLO5
ethical, disciplined, punctual, honest, and	providing feedback	
responsible for themselves and society.	4. Submitting assigned work on time and the quality of	
	assigned work	
CLO4: Able to present a prototype to solve	5. Presentation, answering questions and solving	PLO7
agricultural problems with embedded	problems using appropriate language and IT	
systems completely and correctly.	technology for both individual and group work.	

9. Academic achievement measurement (%)

Faculty evaluate study topics, analyze, plan, and solve problems. Academic work in agricultural machinery and agricultural mechatronics presented in the form of a special project report.

Total 100%

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

10. Documents to read:

Relevant and up-to-date books, journals, research reports, research articles, and other documents pertaining to the special project topic.

11. Evaluation of teaching results:

From the student's questionnaire, students must evaluate their teaching results at 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 <u>evaluation, the</u> student want instructor give clearly about time for assignments submission as well as details of assignments.
 Not revised.
 Revised to be consistent with the recommendation of the student.

13. Teaching improvement from teaching evaluation results:

 \Box No teaching evaluation

☑ Teaching evaluation

 ✓ No improvement, the average score of the evaluation is equal to 4.83.
 □ Improvements as follows.

14. Schedule of activities related to teaching and learning

14.1 Students arrange meetings with their academic advisors to request guidance, at the seminar room, 1st floor, Agricultural Mechatronics Laboratory Building.

14.2 Students dedicate their spare time outside of regular coursework to project work.

Signature

(Assoc.Prof. Pongsak Unontanasawat) 27 November, 2024

an v