Tsuyama College		Year	2021		Course Title	Thesis Work II		
Course Information								
Course Code	0025			Course Category	Specializ	Specialized / Compulsory		
Class Format	Experiment			Credits	School C	School Credit: 8		
Department	Advanced Electronics and Information System Engineering Course			Student Grade	Adv. 2nd	Adv. 2nd		
Term	Year-round			Classes per Week	8	8		
Textbook and/or Teaching Materials								
Instructor	KATORI Shigetaka,NAKAMURA Shigeyuki,NISHIO Kimihiro,SHIMADA Takao,TERAMOTO Takayuki,KAWANAMI Hiromichi,KIKUCHI Yosuke							

Course Objectives

Learning purposes: To acquire the ability to identify engineering and technical problems and to solve them concretely, and to acquire the basic skills of an engineer.

- Course Objectives:

 1. To be able to use international papers and other sources to research information on research themes and to grasp trends in advanced technologies.

 2. To be able to independently develop a research plan, use hardware and software, perform specific experiments and analyses, and solve technical problems.

 3. Students can present their research results at academic conferences outside the university. To be able to freely exchange
- opinions and ideas with many engineers.

 4. Have an awareness as an engineer and be able to contribute to the local community and the world.

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Rubric									
	Excellent	Good	Acceptable	Not acceptable					
Achievement 1	To be able to conduct research in foreign language papers and to understand related technology and research trends by collecting, organizing and analyzing necessary information.	To be able to conduct research in foreign language papers, and to understand simple related technology and research trends by collecting, organizing, and analyzing necessary information.	To be able to read a given article in a foreign language. Able to research literature in Japanese.	Cannot read a given paper in a foreign language. Cannot research literature in Japanese.					
Achievement 2	To be able to formulate a research plan on one's own in accordance with the research objectives, and to be able to logically explain the hypothesis, the method of testing and evaluating the research, and the results.	To be able to formulate a research plan by oneself according to the research objectives, and to be able to test simple hypotheses and investigations.	To be able to understand the methods and results of experiments and analyses, and to understand their meanings with reference to the textbook.	Cannot understand the methods and results of experiments and analyses.					
Achievement 3	To be able to make presentations and exchange opinions at conferences in foreign languages.	To be able to make a poster presentation in a foreign language.	To be able to make presentations and exchange opinions in Japanese.	Cannot make presentations or exchange opinions in Japanese.					
Achievement 4	Understand the effects and impact of technology on society and nature, and understand the responsibility that engineers have to society. To be able to continuously improve oneself in order to grow as an engineer, and to take action to solve local problems.	Understand the influence and effect of technology on society and nature, and understand the responsibility that engineers have to society. To be able to continuously improve oneself in order to grow as an engineer.	To be able to continuously improve oneself in order to grow as an engineer.	Cannot engage in continuous self-improvement to grow as an engineer.					
Assigned Department Objectives									

Teaching Method

		General	General or Specialized : Specialized							
		Field of	Field of learning: Experiment and practice							
	Foundat	Foundational academic disciplines: Engineering/Electrical and Electronic Engineering, Information Engineering								
	Relation	elationship with Educational Objectives :This class is equivalent to "(4) Develop multi-disciplinary								
Outline		of resea E-3, F-1 design s public h constrai formula	Relationship with JABEE programs: The main goals of learning / education in this class are "(E)Development of research skills, E-1", also "A-3, C-1, C-2, D-1, D-2, D-3, E-2, E-3, F-1, F-2, G-1, G-2, " and "H-1" is involved. In this class, students are expected to acquire the following design skills: conceptual ability, problem-setting ability to recognize problems from the viewpoint of public health and safety, culture, economy, environment, ethics, etc., ability to find solutions under the constraints arising from these problems, ability to express the conceptualized ideas in diagrams, sentences, formulas, programs, etc., and ability to plan and implement continuously. In this course, students will be involved in developing the ability to find solutions under constraints arising from these problems, the ability to express their concepts in diagrams, sentences, formulas, programs, etc., and the ability to plan and implement continuously. In addition, students are required to attend a lecture on engineering ethics.							
		indepen develop	Course outline: This class is designed to cultivate the ability to discover problems and solve problems ndependently by working on distinctive research topics, and to deepen knowledge and acquire research and development skills. The results of the research will be submitted as a summary of the interim presentation, and if necessary, external presentations will be made at academic conferences.							
		Course their su enginee	Course method: Students are expected to carry out research activities independently under the guidance of their supervisor. In the course of their efforts, the instructors provide guidance and advice on how to conduct engineering research, write scientific and technical papers, and make presentations and discussions as appropriate.							
		Grade e	Grade evaluation method: The supervisor will evaluate according to the conditions indicated in the lesson							
Style		In partic practica the mid be evalu disciplin (A) and or more	n. particular, the theme presentation will be evaluated as professional ability (10%), and the off-campus actical training report will be evaluated as cross-disciplinary ability (10%). In addition, the preparation for a midterm presentation (outline, preliminary draft) and the report on the lecture on engineering ethics will evaluated as professional competence (70%), and the report on the fieldwork will be evaluated as crossciplinary competence (10%). In the evaluation, the level of achievement will be evaluated for each item of and (C) to (H) of the educational program, and the student will pass if the total evaluation score is 60% more. If the evaluation score does not reach the passing score, guidance will be given and re-evaluation y be conducted.							
		of study	Precautions on the enrollment: This is a class that requires study outside of class hours. A total of 45 hours of study is required per credit, including both class time and study outside class time. Follow the instructions of the instructor regarding study outside of class hours.							
		expecte receive (NIAD), Course" keeping	Course advice: This subject is the most important main subject in the major. Therefore, students are expected to take the initiative in all aspects and do their best. In addition, in the second year, when students receive a bachelor's degree from the National Institution for Academic Degrees and University Evaluation (NIAD), they are required to submit a "Master's Course Plan" and a "Summary of the Results of the Master's Course". In addition to the above, it is necessary for the students to proceed with their research activities keeping in mind that the contents of the special research will be the basis for all of these. In addition, students are required to submit a research record at the end of the first and second semesters.							
Notice		Foundat	ndational subjects : All subjects							
		Related	ed subjects: General subjects to be studied in the major							
		expecte receive (NIAD), Course" keeping	Attendance advice: This subject is the most important main subject in the major. Therefore, students are expected to take the initiative in all aspects and do their best. In addition, in the second year, when students receive a bachelor's degree from the National Institution for Academic Degrees and University Evaluation (NIAD), they are required to submit a "Master's Course Plan" and a "Summary of the Results of the Master's Course". In addition to the above, it is necessary for the students to proceed with their research activities keeping in mind that the contents of the special research will be the basis for all of these. In addition, students are required to submit a research record at the end of the first and second semesters.							
Charact	eristics o		Division in L							
□ Active	Learning		☐ Aided by I	СТ	☐ Applicable	to Remote Class	☐ Instructor Professionally Experienced			
Course	Plan									
			Theme			Goals				
		1st		nation by supervisc e special research)	or on how to					
1st Semeste r	1st Quarter	2nd	Students should plan their research for each special research theme. Create a "Learning Summary Course Plan".							
		3rd	Mid-term presentation (around the end of April)							
		4th 5th	Research Activiti Consult with you presentation at a	<u>ies</u> ır academic advisor an off-campus conf	r and make a erence at an					
			appropriate time (while in the major course). Attendance at a lecture on engineering ethics							
		6th 7th	Attendance at a	lecture on enginee	ring etnics					
		8th								
		9th								
	2nd Quarter	10th								
		11th 12th								
		13th								

		14th						
		15th						
		16th	Writing a course p study Attendance at a le					
		1st	Degree Application					
		2nd						
	3rd Quarter	3rd						
		4th						
		5th						
		6th						
		7th						
		8th						
		9th						
		10th	Time to prepare t (December - Janu	he "Special Resea ary)	arch Report"			
2nd Semeste r		11th	Students compile a "Special Researd designated outline department head	ch Report" accord and submit it to	ling to the			
		12th	Special research p		y February)			
	4th Quarter	13th	Prepare for the proutline of the presommittee membions charge (late January)	sentation to the s er of the major d	teerina l			
		14th	Final presentation (mid-February)	of the Special St	udy Report			
		15th	After peer review, Report" and subm department. After review, revis and submit it to the	nit it to the head one of the it to the it.	of the esearch Report"			
		16th						
Evaluati	ion Meth	nod and \	Neight (%)					
		amination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal 50			50	0	0	0	0	100
Basic Proficienc			0	0	0	0	0	0
Specialize Proficienc	ed 50)	40	0	0	0	0	90
Cross Are Proficienc			10	0	0	0	0	10