

Akashi College		Year	2023	Course Title	Preliminary Research Studies
Course Information					
Course Code	5015		Course Category	Specialized / Compulsory	
Class Format	Seminar		Credits	School Credit: 4	
Department	Mechanical and Electronic System Engineering		Student Grade	Adv. 1st	
Term	Year-round		Classes per Week	4	
Textbook and/or Teaching Materials					
Instructor					
Course Objectives					
(1) Can integrate and deepen expertise, and examine it theoretically, systematically, practically, and creatively from a wide perspective toward solving problems. (2) Can summarize obtained research results as reports and posters, communicate them verbally to others, and discuss them. (3) Can engage in learning and research independently and continuously.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Can integrate and deepen expertise, and examine it theoretically, systematically, practically, and creatively from a wide perspective toward solving problems.		Can integrate and deepen expertise, and examine it theoretically, systematically, and practically from a wide perspective toward solving problems.		Cannot integrate and deepen expertise, and examine it theoretically, systematically, and practically from a wide perspective toward solving problems.
Achievement 2	Can fully summarize obtained research results as reports and posters, communicate them verbally in a comprehensible manner to others, and discuss them.		Can summarize obtained research results as reports and posters, communicate them verbally to others, and discuss them.		Cannot summarize obtained research results as reports and posters, communicate them verbally to others, and discuss them.
Achievement 3	Can fully engage in learning and research independently and continuously.		Can engage in learning and research independently and continuously.		Cannot engage in learning and research independently and continuously.
Assigned Department Objectives					
Teaching Method					
Outline	This course is based on graduation research in the department, and will conduct research in the mechanical and electronic system engineering fields at a higher level under the supervision of the faculty member in charge. The aim is to acquire the background knowledge that serves as a foundation for graduate study's special research.				
Style	In the course, as it is particularly important for students to work towards research voluntarily, the faculty members in charge will first present planned themes for setting up a research theme. The theme will then be decided after discussing with students with utmost respect to their engineering interests. Furthermore, from exploring the issues given, thinking about the approach methods, right up to answering the questions, students will carry out each research process independently and based on their own judgment as much as possible.				
Notice	This course's content will amount to 180 hours of study in total. These hours include the learning time guaranteed in classes and the standard self-study time required for pre-study / review, and completing assignment reports. Promote research independently and actively based on the background knowledge cultivated in the department. Other conditions for missing classes that will make students ineligible for a passing grade				
Characteristics of Class / Division in Learning					
☒ Active Learning		☐ Aided by ICT		☒ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Setting the research theme Each faculty member in charge will explain and direct each individual.	Can determine research themes independently under each teaching staff.	
		2nd	Individual research Carry out separately under supervision of each faculty member in charge.	Can independently and continuously conduct studies and research under each teaching staff.	
		3rd	Individual research Same as above	Same as above	
		4th	Individual research Same as above	Same as above	
		5th	Individual research Same as above	Same as above	
		6th	Individual research Same as above	Same as above	
		7th	Individual research Same as above	Same as above	
		8th	Individual research Same as above	Same as above	
		2nd Quarter	9th	Individual research Same as above	Same as above

		10th	Individual research Same as above	Same as above
		11th	Individual research Same as above	Same as above
		12th	Individual research Same as above	Same as above
		13th	Individual research Same as above	Same as above
		14th	Individual research Same as above	Same as above
		15th	Individual research Same as above	Same as above
		16th	No final exam	
2nd Semester	3rd Quarter	1st	Individual research Same as above	Same as above
		2nd	Individual research Same as above	Same as above
		3rd	Individual research Same as above	Same as above
		4th	Individual research Same as above	Same as above
		5th	Individual research Same as above	Same as above
		6th	Individual research Same as above	Same as above
		7th	Individual research Same as above	Same as above
		8th	Individual research Same as above	Same as above
	4th Quarter	9th	Individual research Same as above	Same as above
		10th	Individual research Same as above	Same as above
		11th	Individual research Same as above	Same as above
		12th	Individual research Same as above	Same as above
		13th	Individual research Same as above	Same as above
		14th	Individual research Same as above	Same as above
		15th	Presentation review meeting	Can summarize obtained research results as reports and posters, communicate them verbally to others, and discuss them.
		16th	No final exam	

Evaluation Method and Weight (%)

	Examination	Presentation	Report	Autonomy	Portfolio	Other	Total
Subtotal	0	30	40	30	0	0	100
Basic Proficiency	0	10	20	10	0	0	40
Specialized Proficiency	0	20	20	20	0	0	60
Cross Area Proficiency	0	0	0	0	0	0	0