Tsuyama College		Year	202	2021			Course Title		rans Exercise of All rogram I	
Course Informatio	on									
Course Code	e 0041				Course Cate	gory Specialized / Con		zed / Con	npulsory	
Class Format	Seminar				Credits		Academ	Academic Credit: 4		
Department	Technology E	epartment of Integrated Scie echnology Electrical and Elect ystems Program		ice and onic	Student Grade		3rd			
	Year-round	/ <u> </u>			Classes per Week		2	2		
Textbook and/or	The books de	•				les on the Internet, textbooks and reference books used in class,				
	MINATOHAR	A Tetsuya								
Course Objectives	5									
Learning purposes : To acquire engineering utilizing one's own exp solve them.	g design and pertise and co	teamwork sk mmunicating	cills by g with	grasping the other special	e purpose of t Ities to solve	he the proble	me, recogn ms that hav	izing wha ve arisen,	at needs to be prepared, , and devising ways to	
Course Objectives : 1. To be able to recover to the second sec	lerstand the i ceed systema creative while	ssues to be s atically with a being aware	solved an awa e of th	and be able t areness of the e role of othe	to learn autor e goal. er members.	nomou	ısly.	nd and de	evise, and be able to	
Rubric						1			1	
	Excellen	t		Good		Accer • The	ptable		Not acceptable	
Achievement 1	the curri goals, fir deviation the caus and prio try to fir causes, action tc • The st summar and stru	udent can gra ent situation a nd issues in tl ns, understan al relationshi rity of the iss id out the ma and propose o solve them. udent can ize, organize, cture the of complex	and the grad and t	goals, find issues in their discrepancies, and understand the basic methods for collecting, analyzing, and organizing information necessary for solutions. • The student can understand the essence of events objectively and logically, and choose the best option		the current situation and goals, find issues in the gap between them, and understand the basic methods for collecting, analyzing, and organizing information necessary for solutions. • The student can understand the essence of events objectively and logically, and be able to select almost appropriate options.		tion and in the m, and asic cting, rganizing ssary for n ssence vely and able to	Has not reached the required standards.	
Achievement 2	demonst own abil the situa group. • The st manage		re her	importance of independent action and take action on his or her own initiative. • The student can manage his or her daily life and act reconscibly.		The student can understand the importance of independent action and perform mostly satisfactory actions. The student can manage daily life and behave responsibly in general.		on and ns. n and	Has not reached the required standards.	
Achievement 3	to the op group, e own opin consensi purpose • The st with an society. • The st understa necessit manners control h emotion opinions commur appropri collabora with a se ownersh • The st understa necessit manners control h emotion opinions commur appropri collabora with a se ownersh • The st good exa ahead of student verbally, appropri behavior promote	udent can act awareness of member of a udent can and the y, rules, and s of teamwork is or her owr s, respect the of others, nicate ately, and ate with other ense of	k, i f k, i e trs duct	to the opinior group, expres own opinions understand h individual role group. • The studen understand tl importance o responsibility basic actions. • The studen understand tl necessary for to help the or function effec • The studen understand tl leaders for th	e student can p. express his or her opinions, and erstand his or her idual role in the p. e student can erstand the ortance of a sense of consibility and take c actions. e student can erstand the items ssary for teamwork elp the organization cion effectively. e student can erstand the role of ers for the effective cioning of the pization		 The student can respond to the opinions of the group, express his or her own opinions, and generally understand his or her individual roles in the group. The student can understand the importance of responsibility and can take basic actions. The student can generally understand the items necessary for teamwork for the organization to function effectively. The student can understand the role of leaders for effective functioning of the organization. 		Has not reached the required standards.	

Achievement 4		• The student can use ICT, ICT tools, texts, etc. for basic information gathering and dissemination.	• The student can handle ICT, ICT tools, texts, etc. for information gathering and dissemination, and to understand the application and future potential of ICT.	• The student can handle ICT, ICT tools, texts, etc. for information gathering, utilization, and transmission.	Has not reached the			
Assigned Dep		t Objectives						
Teaching Met	Gen Field Four Rela	General or Specialized : Specialized Field of learning : Interdisciplinary subjects and others Foundational academic disciplines : Subjects studied in 1st and 2nd year Relationship with Educational Objectives :						
Outline	and	This class is equivalent to "(4) Develop multi-disciplinary ability", "(5) Attain a global perspective and understanding of social development", "(6) Develop problem solving ability" and "(7) Develop communication and presentation abilities".						
	Adva Mec and Prog Elec	Relationship with JABEE programs : Advanced Science Program : The main goal of learning / education in this class is "(D)". Mechanical Systems Program : The main goal of learning / education in this class is "(A), (A-3)", also "(D-1)" and "(F-2)" are involved. This is a course with university equivalent content and is related to the JABEE Programs. Electrical and Electronic Systems Program : The main goal of learning / education in this class is "(D), (D-1)",						
	Prog Com "(D)	also "(F-1)" are involved. This is a course with university equivalent content and is related to the JABEE Programs. Communication and Information Systems Program : The main goal of learning / education in this class is "(D), (D-2)", also "(F-1)" are involved. This is a course with university equivalent content and is related to the JABEE Programs.						
	Tear then prac	Course outline : Teams of several people from different disciplines work on a theme presented by the instructor or set up by themselves, discover the problems to be solved to realize the goal, and experience how to solve the problems practically as a team. In this exercise, the student can deepen the skills and knowledge he or she have already acquired, or acquire new skills and knowledge outside his or her field of expertise.						
	The prop The	Course method : The student is surveyed to determine the theme of his or her choice of assignment based on the themes proposed by each faculty member. The student works on the theme for a year, and at the end of the year, they make a presentation on his or her work.						
	The situa the	The student works on the theme as a team of several people (or more than 10 people depending on the situation) with different specialties, discover the problem to be solved to realize the goal, discuss how to solve the problem as a team, and implement the problem systematically.						
Style	Grou eval • Ev • Ev • Ev • Ev The volu com	Grade evaluation method : Group discussion and poster presentation, and submission of the report by the deadline are prerequisites for evaluation in accordance with the following. • Evaluation of the seminar plan, interim and final reports by the supervisor (30%) • Evaluation of the status of exercises by supervisors (40%) • Evaluation of the poster presentation by the judges (30%) The supervisor's evaluation of the status of the exercises, etc. includes an evaluation of the status of voluntary efforts (including tardiness and absenteeism) and the status of efforts for technical guidance and communication, including outside the timetable. A similar evaluation through questions and answers will also be included as part of the assessment by the judges.						
	Stuc the This inclu	Precautions on the enrollment : Students must take this class (no more than one-fifth of the required number of class hours missed) and earn the credit in order to complete the 3rd year course. 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.						
Notice	As a The cond	Course advice : As a preparatory study to be done beforehand, do some research on the topics you are interested in. The objectives of this course are to develop engineering design skills to solve problems under limited conditions (by cooperating with the whole team), and to develop the ability to create new problems and solve them.						
	(Adv	Foundational subjects : Introduction to Science and Engineering (1st year), Fundamental Challenge Seminar (Advanced Science Program 2nd), Subjects studied up to 2nd year, etc. Related subjects : Trans Exercise of All Program II (4th year), Interdisciplinary subjects (5th), etc.						
Attendance advice : To share problems with teammates in other fields of specialization (to improve communication skills) so that you can learn with an awareness of your own specialization (to enhance your own expertise), and at the same time, to find points of contact between other fields of specialization and your own (to improve interdisciplinary skills) and to devise ways to solve problems.								
Characteristic	s of Cla	<u>ss / Division in Learni</u>	ng					
□ Active Learning □ Aided by ICT □ Applicable to Remote Class □ Instructor Professionally Experienced								
Required	subj	ects		· ·				
Course Plan		Th a m		Casta				
1st Semeste 1st	r 1st		of subject matter and	Goals To understand the educ				
r Quarter Quarter coordination of assignment learning content and assessment methods.								

		2		Learning and practice of general-purpose skills, attitudes and orientations, integrated learning		
		2nd	Investigate and review the content of the theme, and develop a plan for exercises	Learning and practice of general-purpose skills, attitudes and orientations, integrated learning experiences and creative thinking skills as interdisciplinary skills. Investigate and review the content of the theme, and develop a plan for exercises.		
		3rd	Investigate and review the content of the theme, and develop a plan for exercises	Same as above.		
		4th	Investigate and review the content of the theme, and develop a plan for exercises	Same as above.		
		5th	Investigate and review the content of the theme, and develop a plan for exercises	Same as above.		
		6th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
	7th	(1st semester mid-term exam)	Same as above.			
		8th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		9th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		10th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		11th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
	2nd Quarter	12th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		13th	Work towards the realization of each theme, including learning, production and experimentation Same as above.			
		14th	Participation in the final debriefing session of the Trans Exercise of All Program II	Same as above.		
		15th	(1st semester final exam)	Same as above.		
		16th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
	3rd Quarter	1st	Work towards the realization of each theme, including learning, production and experimentation Preparation for group meetings	Same as above.		
		2nd	Group meetings (reports and discussions in multiple topic groups)	Same as above.		
		3rd	Summary of interim results (preparation and submission of interim report), discussion of problems and plan revisions	Same as above.		
		4th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
2nd Semeste r		5th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		6th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		7th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		8th	(2nd semester mid-term exam)	Same as above.		
	4th Quarter	9th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		10th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		11th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		12th	Work towards the realization of each theme, including learning, production and experimentation	Same as above.		
		13th	Preparing a poster presentation (making a poster)	Same as above.		
		14th	Poster presentations	Same as above.		
		15th	(2nd semester final exam)	Same as above.		
		16th	Summary of results (preparation and submission	Same as above.		

	Report	Status of Exercises, etc.	Presentation	Total
Subtotal	30	40	30	100
Basic Proficiency	0	0	0	0
Specialized Proficiency	0	0	0	0
Cross Area Proficiency	30	40	30	100