

Toyama College		Year	2024	Course Title	Thesis Research I
Course Information					
Course Code	0002		Course Category	Specialized / Compulsory	
Class Format	Experiment / Practical training		Credits	Academic Credit: 3	
Department	Control Information Systems Engineering Course		Student Grade	Adv. 1st	
Term	First Semester		Classes per Week	3	
Textbook and/or Teaching Materials					
Instructor	Shina Toru, Akiguchi Shunsuke, Matoba Ryuichi, Oguma Hiroshi, Tsukada Akira, Ito Nao, Mizumoto Iwao, Aso Tsukasa, Yoshii Yotsumi, Furuyama Shoichi				
Course Objectives					
Following three elements are educated as encouraging abilities of a research and development. 1. Students can suggest, design and construct related systems such as software, hardware and network with considering a social background. 2. Students can solve problems by their fundamental and specific knowledge. 3. Students can present and discuss their research theme.					
Rubric					
	Ideal Level of Achievement	Standard Level of Achievement	Unacceptable Level of Achievement)		
(Research work 1) Backgrounds, purposes, methods, contents, results, discussion and future tasks are included.	All elements are included.	Acceptable contents.	Lacks of contents.		
(Research work 2) Expression of statement, figures and tabular.	Acceptable expression.	Almost acceptable expression.	Unacceptable and lack of expression.		
(Research work 3) The expression of backgrounds and purposes.	Acceptable expression.	Almost acceptable expression.	Unacceptable and lack of expression.		
(Research work 4) Methodology	Acceptable methodologies.	Almost acceptable methodologies.	Unacceptable methodologies.		
(Research work 5) Logical Structure	Reasonable logical structure.	Almost reasonable structure.	Not reasonable logical structure.		
(Research work 6) Critical Thinking	Reasonable discussion.	Almost reasonable discussion.	Unacceptable discussion.		
(Research work 7) Validity of results	Cleared and valid results are expressed.	Almost valid results are expressed.	Unacceptable results.		
(Research work 8) Future works	Valid future plan and schedule. Clear solutions are provided.	Acceptable plan and schedule.	Unacceptable plan.		
(Presentation 1) (1)Background (2)Purpose (3)Methodology (4) Contents (5) Result and Discussion	Reasonable structure.	Acceptable structure	Unacceptable structure		
(Presentation 2) Suitable expression of sentences and figures.	Reasonable sentences and figures.	Acceptable sentences and figures.	Unacceptable sentences and figures		
(Presentation 3) Logical structure	Reasonable logical structure	Almost reasonable structure	Not reasonable logical structure		
Assigned Department Objectives					
ディプロマポリシー C-3 JABEE C3					
Teaching Method					
Outline	For special research topics related to the same control information system through major departments 1 and 2 years, under the supervisor, acquire the method of literature survey, experimental / theoretical analysis method, evaluation method, and nurture research promotion ability. In line with each concrete theme, increase the comprehensive research capability through investigation and education of required knowledge necessary for application, application to problem solving, analysis and evaluation of the results obtained. We will summarize and present the research results we have worked on in Special Study I. [Control] C3 [JABEE Standard 1 (2)] (f) (g)				
Style	In each laboratory, conduct research under the guidance of the main deputy supervisor advisor. Classification method, multiple faculty charge method				
Notice	To undertake subjectively and systematically on issues under the supervisor. One chief examiner and two sub-investigators comprehensively evaluated the content of the thesis, the contents of the presentation and the status of activities based on the evaluation criteria table (total table instructions), with a paper evaluation of 50%, a presentation evaluation of 30%, an effort status of 20% , Pass score over 60 points.				
Characteristics of Class / Division in Learning					
<input checked="" type="checkbox"/> Active Learning	<input checked="" type="checkbox"/> Aided by ICT	<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced		
Course Plan					
			Theme	Goals	

1st Semester	1st Quarter	1st	Special Research	Determination of special research topics and academic advisors
		2nd	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		3rd	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		4th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		5th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		6th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		7th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		8th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
	2nd Quarter	9th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		10th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		11th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		12th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		13th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		14th	Special Research	Study in the field of specialization necessary for research subject (Survey, seminar, assignment setting, planning, implementation, report)
		15th	Mid term presentation	Review of studies / announcements by chief and sub-investigations
		16th	Score checked	

Evaluation Method and Weight (%)							
	Chief and sub-investigators						Total
Subtotal	100	0	0	0	0	0	100
Research Paper	30	0	0	0	0	0	30
Presentation	50	0	0	0	0	0	50
Effort	20	0	0	0	0	0	20