Department of Risk Engineering

Student Achievement Assessment System

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1 Overview of the Student Achievement Assessment System

Features of the Student Achievement Assessment System

Since the 2008 academic year, "Student Achievement Assessment" for the educational objectives has been conducted in the Department of Risk Engineering. The Student Achievement Assessment System is a system for evaluating the educational process so that students simultaneously meet the educational objectives of the department and the general educational objectives of the Graduate School (see the 6 items in the attached sheet). As described below, it is extremely useful for checking the level of everyone's study progress. Therefore, this system is utilized for having a more meaningful experience in the Graduate School.

<Feature 1> Achievement Level Evaluation Committee (meets twice a year)

- Guidance from multiple professors
- By creating such materials as Achievement Level Evaluation Sheets, an objective look back at the state of regular study can be made, to maintain a course for achieving goals.

<Feature 2> Student portfolio evidence file (submitted monthly)

Feedback from the evaluations can provide meticulous guidance!

• Each month, a summary of the student's state of academic study, called the student portfolio, is created and stored.

- The Achievement Level Evaluation Sheet that is submitted to the Achievement Level Evaluation Committee is created based on the student portfolio and when necessary is saved as evidence.
- Evidence of Study: Materials that are created during the study program. This includes, for example, study notes created during the course of special research, group work, internships, etc, research reports for laboratory seminars, and manuscripts of papers prepared for academic societies, research conferences. The student can be requested to submit these materials to provide support for the "Achievement Level Evaluation Sheet (Self-Assessment)" described below, so all of them should be saved.

<Feature 3> Creation of an "Achievement Level Evaluation Sheet (Self-Assessment)"

- By creating Achievement Level Evaluation Sheets (Self-Assessment), students can confirm the state of progress toward their own goals before the meeting of Academic Level Evaluation Committee. Students can look at themselves and take corrective actions for 8 items: 1) knowledge of fundamental/basic theory in the major field, 2) knowledge of fundamental/basic theory in related fields, 3) understanding of real world problem, 4) ability to approach problems from a 14 14 34 34 46 17 17 - - - broad perspective, 5) ability to solve problems, from recognizing problems to finding solutions, 6) presentation and communication skills, 7) ability to contribute to international professional societies in the major field, and 8) scientific research results.
- This becomes practices that encourages students to be more aware of the state of their studies, and enables them to develop the self-promoting skills that they will need in the workforce. Samples of Each Field and Program: → P23, 25, 27, 29, 31

<Feature 4> Study check based on points (only for students in the Master's Program)

- The points set for each course can be added by acquiring units. The designated points are multiplied by 1.2 for grades of As, by 1.0 for Bs,
- and 0.8 for Cs.
- By taking courses so that a good balance of points can be acquired, students can avoid taking only courses that they tend to have an interest in.

Point Table for courses → P39 Point Application Sheet, Course Credit Points Sheet, and sample graphs of each field \rightarrow P47, 50, 53, 56

<Basic Concepts of the Student Achievement Assessment System>

- 1) Mutual agreement about achievement level evaluation in the Master's Program \rightarrow P61
- 2) Mutual agreement about achievement level evaluation in the Doctoral Program \rightarrow P64
- 3) Achievement level evaluation standards in the Self-assessment sheets \rightarrow P66
- 4) Educational objectives and study methods in the Department of Risk Engineering \rightarrow P68
- 5) (For reference) Materials explaining about the Achievement Level Evaluation for orientation for the Department of Risk Engineering (for the Master's Program)→P75
- 6) (For reference) Materials explaining about the Achievement Level Evaluation for orientation for the Department of Risk Engineering (for the Doctoral Program)→P78



Sample of student portfolio → P15

Sample of Evaluation Sheet \rightarrow P21



Outline of Committee → P7

How to enter information \rightarrow P33

Flow of the Student Achievement Assessment System



Schedule for Achievement Level Evaluation Committee meetings up to completion of the Program

	Master's Program Students		Common	Doctoral Program Students	
	Period of ALEC meetings	Application period for Point Application Sheet		Period of ALEC meetings	
	Details of meetings	Details for application	Submission	Details of meetings	
April		(Spring A Module) Farly to middle of April			April
May		(Spring B Module)			May
June		Middle to late of May			June
July		(Spring C Module) Llate of June			July
August					August
September	First ALEC	**************************************			September
October	(about a month period	(Autumn A Module)	Stud	month period starting October	October
November	starting October 1)	(Autumn B Module)	ents :	1)	November
December			shoul		December
January		(Autumn C Module)	d su (fil		January
February	◆ Second ALEC	Early January	bmit es for	•	February
March	meeting (from end of	• • • • • • • • • • • • • • • • • • •	their Augu	Second ALEC meeting (from end of February to	March
April	March)	(Spring A Module) Early to middle of April	stude ıst/Se	end of March)	April
May		(Spring B Module)	nt P ptei		May
June		Middle to late of May	ortf		June
July		(Spring C Module) Llate of June	olio e r and		July
August			lectro Dece		August
September			onic	Third ALEC meeting (about a	September
October	month period starting October	(Autumn A Module)	data er/Ja∣	month period starting October	October
November		(Autumn B Module) Early November	to Mc nuary		November
December			oodle may		December
January	Fourth ALEC meeting (to be held between late	(Autumn C Module)	by th be su		January
February	January and early February)	Early January	iemse bmitt	•	February
March			elves : ed to	Fourth ALEC meeting (from end of February to	March
		i	the : geth	end of March)	April
			10th Ier)		May
			of		June
			each		July
			n mo		August
			onth	Fifth ALEC meeting (about two	October
				1)	November
					December
				Sixth ALEC meetings (to be held	January
				February)	February

You will be notified of this academic year schedule as soon as it is finalized.

2 Outline of Achievement Level Evaluation Committee

Outline of Achievement Level Evaluation Committee (for Master's Program)

1. Notification about the Committee Meeting Period

1) The Chairperson shall decide the date and time of the meeting of Achievement Level Evaluation Committee for each student, and shall notify the student and all committee.

(Please also contact the GP Core Mailing List at risk-gp-core@risk.tsukuba.ac.jp)

2. Student Preparation **Students**

1) Print out the 'TWINS Personal Academic Results' sheet from the TWINS system.

- Students who have already completed courses for the Graduate School should list the grade(s) for the course(s), not just whether the course was passed or failed.
- 2) Enter this information in "Achievement Level Evaluation Materials File" (Excel file) and submit the computer file to the Chairperson beforehand. Please refer to the separate sheet for how to enter information.
- 3) The materials listed in the following table should be prepared, and submitted beforehand to the Chairperson of the Achievement Level Evaluation Committee.

Name of material	No. of sheets
The 'TWINS Personal Academic Results' sheet	One
Student portfolio evidence file	One form
Achievement level evaluation sheet, and Self-assessment	One set for every member of the committee
Course Credit Points sheet	One set for every member of the committee
Graphs	One set for every member of the committee
Point Application sheet	One set for every member of the committee

3. Before evaluation

1) The Chairperson of the Achievement Level Evaluation Committee must check the "Grade" column of the materials submitted by the student to determine whether or not the information has been correctly entered.

4. Meeting of the Achievement Level Evaluation Committee **Committee members & Students** 1) In most cases, (the 2 or 3) committee members who are not the chairperson will interview the student. The final Achievement Level Evaluation Committee (just before completion) can be held by e-mail. However, the Record of Achievement Level Evaluation must still be signed.

- 2) For evaluation standards, please refer to "Achievement Level Evaluation Standards for Self-Evaluations" in your orientation materials.
- 3) Each evaluation committee member shall write his/her comments in the applicable "Achievement level evaluation sheet (Self-evaluation)". At that time, the names of committee members will be entered under the item name (A-B). Even if the Evaluation is 2 or 3 sheets long, it is acceptable, and the line spacing will be adjusted accordingly.

Please make sure that everything is printed at the time of printing.

- 4) The Chairperson of the Achievement Level Evaluation Committee, with agreement from the other committee members, shall fill in the "Instructors' Evaluations" column.
- 5) The Chairperson of the Achievement Level Evaluation Committee shall create a "Record of Achievement Level Evaluations" and have it signed by each committee member.

5. Submission of Materials

(1) After completion of the Achievement Level Evaluation Committee, the Chairperson of the committee shall compile the committee members' comments into an Excel document titled "Achievement Level Evaluation Materials File" and shall submit or save each material according to the following table:

Chairperson of the Committee

Chairperson of the Committee

Chairperson of the Committee

Name of material	Number	Where to submit or save
The 'TWINS Personal Academic Results' sheet	1	Submission box (In instructor mail room)
Achievement level evaluation sheet, and Self-assessment *All evaluations and comments by committee members should already be written	1	Submission box (In instructor mail room)
Course Credit Points sheet	1	Submission box (In instructor mail room)
Graphs	1	Submission box (In instructor mail room)
Point Application sheet (only if there is an application)	1	Submission box (In instructor mail room)
Student Achievement Assessment Record (Signed)	1	Submission box (In instructor mail room)
"Achievement Level Evaluation Materials" *All evaluations and comments by committee members		Save each Excel file in GP server Each Excel file will be returned to the student, with feedback about the
should already be written		evaluation.

6. For more information

1) For questions about creating materials, please contact the TA in each field, or go to the TA Mailing List at risk-gp-ta@risk.tsukuba.ac.jp

2) For questions about the Achievement Level Evaluation Committee, please consult the GP Core Mailing List at risk-gp-core@risk.tsukuba.ac.jp

Outline of Achievement Level Evaluation Committee (for Doctoral Program)

1. Notification about the Committee Meeting Period

1) The Chairperson shall decide the date and time of the meeting of Achievement Level Evaluation Committee for each student, and shall notify the student and all committee.

(Please also contact the GP Core Mailing List at risk-gp-core@risk.tsukuba.ac.jp)

2. Student Preparation

1) Print out the 'TWINS Personal Academic Results' sheet from the TWINS system.

- Students who have already completed courses for the Graduate School should list the grade(s) for the course(s), not just whether the course was passed or failed.

- 2) Enter this information in "Achievement Level Evaluation File" (Excel file) and submit the computer file to the Chairperson beforehand. Please refer to the separate sheet for how to enter information.
- 3) The materials listed in the following table should be prepared, and submitted beforehand to the Chairperson of the Achievement Level Evaluation Committee.

Name of material	No. of sheets		
Student portfolio evidence file	One form		
Achievement level evaluation sheet, and Self-assessment	One set for every member of the committee		

Committee members & Students 3. Meeting of the Achievement Level Evaluation Committee

1) In most cases, (the 2 or 3) committee members who are not the chairperson will interview the student. The final Achievement Level Evaluation Committee (just before completion) can be held by e-mail. However, the Record of Achievement Level Evaluation must still be signed.

2) For evaluation standards, please refer to "Achievement Level Evaluation Standards for Self-Evaluations" in your orientation materials.

3) Each evaluation committee member shall write his/her comments in the applicable "Achievement level evaluation sheet (Self-evaluation)". At that time, the names of committee members will be entered under the item name (A-B). Even if the Evaluation is 2 or 3 sheets long, it is acceptable, and the line spacing will be adjusted accordingly.

Please make sure that everything is printed.

- 4) The Chairperson of the Achievement Level Evaluation Committee, with agreement from the other committee members, shall fill in the "Instructors' Evaluations" column.
- 5) The Chairperson of the Achievement Level Evaluation Committee shall create a "Record of Achievement Level Evaluations" and have it signed by each committee member.

4. Submission of Materials

Chairperson of the Committee

1) After completion of the Achievement Level Evaluation Committee, the Chairperson of the committee shall compile the committee members' comments into an Excel document titled "Achievement Level Evaluation Materials File" and shall submit or save each material according to the following table:

Chairperson of the Committee

Students

Name of material	Number of copies	Where to submit or save
Achievement level evaluation sheet, and Self-assessment	1	Submission box (In instructor mail room)
*All evaluations and comments by committee members		
should already be written		
Student Achievement Assessment Record (Signed)	1	Submission box (In instructor mail room)
A abjournment Louis Fugluation Materials via		Save each Excel file in GP server
*All evaluations and comments by committee members		Each Excel file will be returned to the
should already be written		student, with feedback about the
Should alleady be written		evaluation.

5. For more information

1) For questions about creating materials, please contact the TA in each field, or go to the TA Mailing List at risk-gp-ta@risk.tsukuba.ac.jp

2) For questions about the Achievement Level Evaluation Committee, please consult the GP Core Mailing List at risk-gp-core@risk.tsukuba.ac.jp

所属システム情報工学研究科(博士前期課程)リスク工学専攻

氏名 xxxxxxxx

学籍番号 xxxxxxxx 年度 20xx 年度

No	科目区分	科目番号	科目名	教員名	認定 年度	1学 期	2学 期	3学 期	総合 評価	合否
1	A1:基礎科 目	01CB213	ソフトデータ解析	佐藤 美 佳	20xx				В	合
2	A1:基礎科 目	01CF011	リスク工学前期特別演習	糸井川 栄一	20xx				A	合
3	A1:基礎科 目	01CF012	リスク工学前期特別研究 I	糸井川 栄一	20xx				А	合
4	A1:基礎科 目	01CF014	リスク工学概論	糸井川 栄一	20xx			-	А	合
5	A1:基礎科 目	01CF015	リスク工学グループ演習	糸井川 栄一	20xx				A	合
6	A1:基礎科 目	01CF101	ソフトコンピューティン グ基礎論I	宮本 定 明	20xx				A	合
7	A1:基礎科 目	01CF102	ソフトコンピューティン グ基礎論II	遠藤 靖 典	20xx				A	合
8	A1:基礎科 目	01CF104	確率システム論	金野 秀 敏	20xx	В			A	合
9	A1:基礎科 目	01CF106	システム信頼性特論	稲垣 敏 之	20xx				Α	合
10	A1:基礎科 目	01CF401	エネルギーリスク評価論	内山 洋 司	20xx			, ,	В	合
11	A1:基礎科 目	01CF403	エネルギー安全工学特論	羽田野 祐子	20xx				A	合
12	A1:基礎科 目	01CF404	エネルギーリスク解析演 習	羽田野 祐子	20xx				A	合
13	D1:専門科 目	01CF901	リスク工学前期特別講義 I	非常勤講 師等	20xx	L.			В	合
14	A1:基礎科 目	01CM323	環境流体工学特論	白川 直 樹	20xx				В	合
15	B1:共通基 礎科目	01ZZ005	企業と技術者の倫理	掛谷 英 紀	20xx				C	合

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The Term Achievement Level Evaluation Committee in Department of Risk Engineering Achievement Level Evaluation Record

Department of Risk Engineering, Graduate School of Systems and Information Engineering, University of Tsukuba

Name of the Student	
Evaluation Date	
Place	
Evaluation Result	As the enclosement

	Signature
Chairperson of Achievement Level Evaluation	
Committee of Achievement Level Evaluation	
Committee of Achievement Level Evaluation	
Committee of Achievement Level Evaluation	

Space for note : Comment (if any) on achievement level evaluation system



3 Sample of Student Portfolio

Sample of Student Portfolio (Master's Program)

STUDENT PORTFOLIO (Monthly)

Name:	

Supervisor: Prof. /Dr.____

Report term:

1. Research Theme

Research on overtaking behaviors of automobile drivers

2. Current Topics

No.	Content	Status
1	Implementation of experiments	Completed
2	Participating in IS	Completed
3	Submission of an extended summary for SICE 2008	Completed
4	Submission of my report to the 2008 Automotive Engineering Spring Conference	Completed
5	Presentation in Career Forum for students who major in Risk Engineering	In progress
6	Preparation of a paper, "Detection of Driver intentions by Movements in Line of Sight"	In progress
7	Submission of a paper to an academic journal after summarizing experiment and research results	In progress

3. Items for this month

- 1) Conduct main experiment on driver behavior while passing another vehicle
- 2) Collection and analysis of data
- 3) Present "Safe and Reliable IS" at the University of Electro- Communications

4. Future Topics

*Conduct experiments

- *Analyze and discuss experimental data
- *Make presentation to attend the Society Automotive Engineers of Japan

5. Study outside of the research theme

1) Study "Honda Scenario Editor"

2) "Verification and Improvement of a Model for Calculating Line-of-Sight Recognition of Automobile Drivers"

3) "Theory and Measurement of Mental Workload"

4) "Understanding the Line-of-Sight and Intentions of Others and Investigation of the Neurological Mechanism"

5) "Analysis of driver behavior in the case of hurried driving

6) "An Information Processing Model for Understanding Others" ---An attempt to understand how calculation processes in the brain help to determine interpersonal behaviors

7) "Stress, Workload, and Fatigue"

6. Group Work in Risk Engineering "Detection of False Rumor on Twitter"

- 1) Meeting with adviser staff
- * 5/12, 14:00-14:40
- * 5/21, 18:00-18:40
- *5/26, 14:00-14:40
- 2) Student Meeting
- *5/13, 18:00-19:00
- *5/22, 18:00-19:00
- *5/27, 18:00-19:00
- 3) My jobs
- 1] Investigation of Twitter including Twitter API
- 2] Reference Survey
- 3] Preparation of a web site for our group work

Sample of Student Portfolio (Doctoral Program)

STUDENT PORTFOLIO (December)

Name:	
Supervisor:	Prof. /Dr
Report term:	December 1-31, 2007

1. Research Theme

- Clustering Algorithms for Data within a Tolerance Range
- SVM for Data within a Tolerance Range
- Research on late stage projects for Risk Engineering

2. Current Topics

- Creation of a clustering method for all data within a solution search space
- Research on late stage projects for Risk Engineering
- Revision of a paper for the Japan Society for Fuzzy Theory and Intelligent Informatics

3. Research Items for This Week

- Meeting with instructors
- 1. December 3: Meeting with Prof. Hatano (about late-stage project research)

Discussion about the contents of the research, state of progress, schedule, etc.

Evidence: written on 1 sheet of A4 paper

2. December 4: Seminar in the Endo Lab.

Presentation of project research in front of all lab members

Evidence: written on 2 sheets of A4 paper

3. December 6: Individual seminar with Prof. Endo

A meeting was held about clustering methods for all data within a solution search space, and advice was received for problem-solving.

Evidence: Note of the meeting

4. December 18: Seminar in the Endo Lab.

A presentation was made in front of all lab members about the research, and about algorithms for all data within a solution search space.

Evidence: written on 1 sheet of A4 paper

December 21: Meeting with Prof. Hatano (about late-stage project research)
 Meeting about mid-term presentation early next year and confirmation of schedule
 Evidence: None

4. Future Topics

- Create a program for clustering all data within a solution search space
- Revision and submission of paper
- Preparations for mid-term report, etc.

5. Concluding remarks

Appropriate review is being made of analysis, linear algebra, optimization, etc. In addition, pattern recognition and mechanical learning methods are being studied in the literature.

When necessary, discussions will be held with instructors to receive advice and guidance.

There is no particular problem with the progress of the research, or with how it is being approached.

4 Sample of Achievement Level Evaluation Sheet

1st	Date: 20YY/MM/DD	Env & Energy Ris	k	ID N	umber:			Name:			
(1)Knowled	ge of fundamental/basic th	eory in the major fiel	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments			
Is the basic al	bility in a suitable level for degree	of the master student in th	8.0	3.80				(A, B, C, D : select from the list)			
Main study items	I have acquired units, and present the results of the second stage of my researc	have made presentati first step of research ch-assessment framev	ons in t in the c vork.	the sem conferen	inars. I ce. I ha	am plaı ave star	nning to ted the				
State of progress & evidence	The main obstacle I am fac situation. Therefore, I held of Power Engineering and I from Process System Risk	ing with my research I several meetings wit National Encyclopedia seminar	is the l h speci a.EVIDI	lack of i alists fr ENCE: I	nformat om Res Present	ion abo search l ation sl	ut the Institue ides				
Future works	I believe that working on n experience in scientific pap available. I would like to in	ny paper for ICEE con- per preparation and the aprove the contents v	nference ne limite vith add	e showe ed amou litional i	d the la int of th nforma	ick of ne infor tion.	mation				
Comprehensive self- assessment	I obtained 3.8 poitns in thi	s item, that I find qui	te satis	factory.							
(2)Knowled	ge of fundamental/basic th	eory in related fields:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments			
Is the basic al	bility in a suitable level for degree	of the master student in th	5.0	2.52				(A, B, C, D : select from the list)			
Main study items	I have acquired units from University.	other courses offered	l by the	e other s	schools	of the		-			
State of progress & evidence	I obtained points from the assignments and credits	field of Total Risk, ar	lass								
Future works	I think that more courses f planning to attend such cla	rom Risk Engineering asses in the next term	I am								
Comprehensive self- assessment	I obtained only 2.5 points. classes in the next semest	s 4									
(3)Underst	anding Real World Problem:		std.	1st	2nd	3rd	4th	Comittee's evaluation & comments			
Is it with the s	sense and understanding of probler	n of reality at a suitable lev	6.0	3.35				(A, B, C, D : select from the list)			
Main study items	Acquisition of units, meeti Power Engineering.	ng with the specialist:	s from I	Kazakh	Researc	ch Instit	tute of				
State of progress & evidence	The meeting helped me to handouts	get a broader picture	of the	situatio	n. EVI	DENCE	E: class				
Future works	I keep a close contact with agreement to publish the p I would like to gather infor and economy).	the mentioned organ paper at the scientific mation about the curr	ization journal rent sit	and hav of the i uation (ve a pre institute energy,	elemina e. Addit enviro	tionally, nment				
Comprehensive self- assessment	I obtained the knowledge of countries.	of the current situatio	ns of po	ower co	mpanies	s in fore	egin				
(4)Ability ir	recognizing problem from	broad perspective:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments			
Is it suitable f	or the degree?		6.0	4.55				(A, B, C, D : select from the list)			
Main study items	l have acquired credits in o lecture of the head of Asaz	other major fields and a Fund NGO.	commo	on subje	cts. At	tended	the				
State of progress & evidence	I have been attending lectu The class of Environmenta and ways of solving them in	ures in environmental l Risk helped me to u n Japan and the world	diplom ndersta I. EVID	atic lead and the o ENCE:	ler for environ class h	future b mental andouts	enefit. issues				
Future works	I would like to attend a con about the prospect of rene	nference in the future wables in the country	in orde	er to ge	t variou	is opinio	ons				
Comprehensive self- assessment	I obtained a wider perspec	tive by learning the s	ituation	is of the	NGO	etc.					
(5)Ability ir	n problem solving from obje	ctives to solutions:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments			
Is it a special	ability to understand, and can it le	ad to a concrete solution?	4.0	0.00				(A, B, C, D : select from the list)			
Main study items	Assignment at Process Sys	tem Risk seminar									
State of progress & evidence	I had a chance to make my explosion. Learning isomer connected with technical m class assignment, slides	own investigation of ization process and fo nulfunctions was a gree	rors NCE:								
Future works	Polish the skills of "Proble of obtaining the inverse ma	m Solving" regarding atrix numerically.	my res	earch, s	pecifica	lly the	method	1			
Comprehensive self- assessment	I addressed the theme of o knowledge acquired will be causes, fault-finding, etc.)	il refinery process an useful in the investig	d relate ation p	ed safety process o	v issues of accid	. I belie ents (ro	eve the pot-				

1st	Date: 20YY/MM/DD	Env & Energy Ris	k	ID N	umbei			Name:					
(6)Present	ation and communication s	kills:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments					
Is it suitable f	or the degree?		6.0	0.00				(A, B, C, D : select from the list)					
Main study items	Weekly Lab seminar, Pres	entation at Risk Senk	o Enshu				-						
State of progress & evidence	I was able to make my pre slides, Senko Enshu slides	sentations within time	limit.E	VIDENC	CE: L	ab Semir	nar						
Future works	I need to improve my pres auditorium. Moreover, I h members of the laboratory	entation skills; very o ave to actively partici	ften I lo pate in	ose the v Q&A se	risual ssion	contact of other	with						
Comprehensive self- assessment	I think my presentation sk	ills have greatly impro	oved.										
(7)Internat	ional passing:							Committee's comments					
Is the learning	g passes internationally in the spec												
Main study items	I have sumbitted abstracts and GPE 2015 in Malaysia	for the following con	Kong										
State of progress & evidence	The abstracts allowed me EVIDENCE: Abstracts of	to systematize the str ICEE 2015 & GPE 20											
Future works	The preparation of the abs paper writing. I have to se	stract showed me the lf-study to improve m	ntific										
Comprehensive self- assessment	Two times submission of a eligibity.	bstracts have greatly	improve	ed my sk	ills of	finterna	ional						
(8)Academ	ic publication:							Committee's comments					
Is your judged	l academic result may give master	degree?						Committee's comments					
Main study items	Full paper preparation for	ICEE 2015											
State of progress & evidence	The discussion part of the EVIDENCE: Draft for ICE	full paper greatly imp E 2015	proved t	he resea	irch q	uality.							
Future works	Preparation of the full pap	er for GPE 2015											
Comprehensive self- assessment	Preparing full papers make	s me greatly improve	the skil	ls of aca	idemi	c writing		-					
Compre- hensive committee 's opinion													

(1) Is the basic ability in a suitable level for degree of the master student in the specialized field?

(2) Is the basic ability in a suitable level for degree of the master student in the special field though it is not deeper than the specialized field?

(3) Is it with the sense and understanding of problem of reality at a suitable level?

(4) Is it suitable for the degree?

(5) Is it a special ability to understand, and can it lead to a concrete solution?

(6) Is it suitable for the degree?

(7) Is the learning passes internationally in the specialized field?

(8) Is your judged academic result may give master degree?

2nd	Date: 20YY/MM/DD	Total Risk Managem	ient	ID N	lumber:			Name:
(1)Knowled	ge of fundamental/basic	theory in the major fiel	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is the basic at	bility in a suitable level for degre	ee of the master student in th	8.0	3.60	7.20			(A, B, C, D : select from the list)
Main study items	I have made oral present acquired crediits in Intro Analysis, core courses.	tations in MADI '15 and oduction to SC I & II, re	l FSS '1 esearch	15. In ac seminar	ldition, rs, Cogn	l have itive Ri	isk	
State of progress & evidence	I have made presentation to advance my research in courses in my major fi study notes	ns at domestic and inter to complete my Master ield. EVIDENCE: Semir	rnationa 's thesi nar mate	al sympo s. I have erials, S	osiums. 1 e aquire ubmitteo	l will co d many l paper	ontinue ″A″s s, Self-	
Future works	Take classes of the rest	of the core courses and	l Advan	nced O(⊃ class.			
Comprehensive self- assessment	I have acquired credits i close to the required cri	n Advanced Course in l terion, I have almost ob	Risk En otained	gineerin satisfac	g. As th tory aca	is value demic i	e is results.	
(2)Knowled	ge of fundamental/basic	theory in related fields	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is the basic at	bility in a suitable level for degre	ee of the master student in th	5.0	3.16	4.16			(A, B, C, D : select from the list)
Main study items	I have acquired credits i Risk Engineering. I have RERM.	n Introduction to Risk I participated in session	Enginee s of rela	ring and ated fiel	l major o ds in co	courses nferenc	in es and	
State of progress & evidence	I have aquired credits in significantly above the s	some fields of Risk Eng tandard credits. EVIDE	were I notes					
Future works	I'll take classes of the U term.	rban Risk and Energy &	xt					
Comprehensive self- assessment	I have acquired credits i this value exceeds the re	n major courses in Risk equired criterion, I have	Engine e obtain	eering ar ied satis	nd in oth factory	ier coui academ	rses.As ic	
(3)Understa	anding Real World Proble	m:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is it with the s	sense and understanding of prob	olem of reality at a suitable le	6.0	3.62	5.32			(A, B, C, D : select from the list)
Main study items	I have acquired crediits have participated in sess	in some courses of the sions related to applicat	Departr ion of s	soft com	puting a	t FSS '	ing. 1 15.	
State of progress & evidence	l have aquired credits in significantly increased. I world problem by partici	n addition, I have been pating in sessions of RE	sineerin able to ERM.	ig. My a broadei	quired c n knowle	redits v edge of	vere real	
Future works	Taking the rest credits i	in the department.						
Comprehensive self- assessment	I have acquired credits i have obtained satisfactor knowledge of real world	n major courses in Risk ry academic results.In a problems.	Engine ıddition	eering ar , I was a	nd in oth able to b	er cou proaden	rses.I my	
(4)Ability ir	n recognizing problem from	m broad perspective:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is it suitable fo	or the degree?		6.0	3.62	6.52			(A, B, C, D : select from the list)
Main study items	I have acquired credits other Departments of Ri	in Introduction to Risk sk Engineering. In addit	Enginee tion, I h	ering an nave mae	d some de an or	courses al	s of	
State of progress & evidence	I have aquired credits in significantly above the s perspective by acquiring notes, Group work mate Society for Risk Analysis	some fields of Risk Eng tandard credits. I think credits and participatin rials, Submitted papers s Japan	were y study at the					
Future works	Participation at RERM							
Comprehensive self- assessment	I have acquired credits i As this value exceeds th results from my broad pe	n major courses in Risk ae required criterion, I b erspective.	Engine 1ave obt	eering ar tained s	nd in oth atisfacto	ner cour ory acad	rses. lemic	
(5)Ability in Is it a special	a problem solving from ob ability to understand. and can it	jectives to solutions: t lead to a concrete solution?	std. 4.0	1st 0.00	2nd 0.00	3rd 	4th 	Comittee's evaluation & comments (A, B, C, D : select from the list)
Main study items	I have worked on a new about it. I have acquired presentation to the Soci	theme related to my ma l credits in group work. ety for Risk Analysis Ja	ıjor field In addi pan.	d and ma tion, I h	ade a pr ave mac	esentat le an oi	ion ral	

2nd	Date: 20YY/MM/DD	Total Risk Managem	nent	ID N	umber	:		Name:
State of progress & evidence	I will analyze problems a theme in the course of t level of results. EVIDEN papers to and pesentatio	ind deepen my knowleda ime. In group work, I ha ICE: Self-study notes, on materials at the Socie	ge and u ave beer Group v ety for l	indersta n able to vork mat Risk Ana	nding) obtai terials, alysis J	on my re n a stanc Submitt apan	search lard ed	
Future works	The revised theme of my helped my academic pap	y research, which has b er.	een new	'ly set in	this t	erm, has		
Comprehensive self- assessment	Though I have experience results from my continue	ced bad time, I believe t ous research efforts.	that I ha	ave obta	ined s	atisfactor	ſY	
(6)Presenta	ation and communication	skills:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is it suitable fo	or the degree?		6.0	0.00	0.00			(A, B, C, D : select from the list)
Main study items	I have made presentation Japan, group work, cour	ns in the FSS '15, MDA se work, and research s	v'15, So seminars	ociety fo s at the	r Risk univer	Analysis sity.	\$	
State of progress & evidence	I have made five oral pro- present my thesis clearly Seminar materials, Subm Presentation materials t	esentations (two of then y in the Master's paper litted papers, Presentat o lectures	n were i present ion mat	n Englis tation m erials to	h). I w eeting acade	ould like . EVIDEM mic soci	to NCE: eties	
Future works	Preparation for FSS '16	and MDA '16						
Comprehensive self- assessment	I believe that I have bee points. I will continue m advanced comparing to	n able to clearly unders y efforts in this way. I t the very first day of my	ls have					
(7)Internati Is the learning	i onal passing: passes internationally in the sp	pecialized field?		Committee's comments				
Main study items	I have made an oral pres Liu's lecture about soft	sentation (in English) in computing.	or					
State of progress & evidence	I think that I could make before. I will continuous EVIDENCE: Presentation	e oral presentation and ly work to improve my p on materials to academic	discussi presenta c societ	ion in Er ation ski ies	ıglish I Ils in F	better th English.	an	
Future works	Make presentations at N	/IDA '16 and FSS '16 in	English	1.				
Comprehensive self- assessment	I believe that I have obtained will continue this effort.	ained satisfactory acade	emic pro	ogress b	y my s	tudy effo	orts. I	
(8)Academi	ic publication:							Committee's comments
Is your judged	academic result may give mast	ter degree?						Comments
Main study items	I have submitted papers Society for Risk Analysis	to and made presentati s Japan.	ions in I	FSS '15,	MDA	'15 and	the	
State of progress & evidence	Concerning my thesis, I symposiums and internat satisfactory academic pr	have made four present tional conferences. I be ogress. EVIDENCE: Su	tations, lieve the lbmitted	two eac at I have l papers	h for c 9 obtai	lomestic ned a		
Future works	Making a new numerical a full paper to a journal.	scheme for calculating	the nor	m betwe	en clu	sters and	1 write	
Comprehensive self- assessment	About my thesis, I have and international confer- academic results.	made four presentation ences. Therefore, I beli	.s, two e eve that	each in d t I have	lomest obtain	ic sympo ed satisfa	osiums actory	
Compre- hensive committee 's opinion								<u> </u>

(1) Is the basic ability in a suitable level for degree of the master student in the specialized field?

(2) Is the basic ability in a suitable level for degree of the master student in the special field though it is not deeper than the specialized field?

(3) Is it with the sense and understanding of problem of reality at a suitable level?

(4) Is it suitable for the degree?

(5) Is it a special ability to understand, and can it lead to a concrete solution?

(6) Is it suitable for the degree?

(7) Is the learning passes internationally in the specialized field?

(8) Is your judged academic result may give master degree?

3rd	Date: 20YY/MM/DD	Cyber Risk		ID N	umber:			Name:				
(1)Knowled	ge of fundamental/basic theo	ry in the major fiel	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments				
Is the basic at	pility in a suitable level for degree of t	he master student in th	8.0	6.00	8.40	8.40		(A, B, C, D : select from the list)				
Main study items	I have prepared my thesis. I and answer sessions in Semin	have made presenta ar in Risk Engineer	ations a ring.	ind parti	cipated	in ques	stion					
State of progress & evidence	have conducted additional ecompleted a draft of my thesi Presentation slides for Semin	xperiments and sun s.EVIDENCE: The ar in Risk Eng.	nmarize sis Dra	d the re ft, Resea	sults. I l arch not	have es,						
Future works	Ask questions at lab seminar	s more frequently,	and wit	h confid	ence.							
Comprehensive self- assessment	By making presentations and and developed my research.	writing papers, I h	ave obt	ained sp	ecialize	d know	ledge					
(2)Knowled	ge of fundamental/basic theo	ry in related fields:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments				
Is the basic at	pility in a suitable level for degree of t	he master student in th	5.0	4.52	5.32	6.82		(A, B, C, D : select from the list)				
Main study items	I have acquired credits in oth have participated in question and RERM. I have acquired c	er fields and partic and answer session redits in Ethics for	cipated ns in Se Engine	in group eminar in eers in B	work a Risk Ei usiness.	ctivitie: ngineer	s. I ing					
State of progress & evidence	I have acquired credits in oth other fields. EVIDENCE: RE	er fields. I have as RM handouts, Lect	ked que ure not	estions i ces	n preser	ntations	s in					
Future works	Ask questions at Risk Senko	Enshu more freque										
Comprehensive self- assessment	I could ask more questions th	nan the last semest										
(3)Understa	anding Real World Problem:		std.	1st	2nd	3rd	4th	Comittee's evaluation & comments				
Is it with the s	sense and understanding of problem o	f reality at a suitable lev	6.0	5.44	6.80	7.52		(A, B, C, D : select from the list)				
Main study items	I have acquired credits in a c have acquired credits in Ethi	ourse in which com cs for Engineers in	ipany e Busine	ngineers ss.	deliver	ed lecti	ures. I					
State of progress & evidence	I have listened to lectures on	actual ethical prob	blems ir	n compai	nies.							
Future works	Although my credit of this ite real-world knowledge is enou	em has reached the gh. I will still keep	require learing	ed value	, I'm no	t sure r	ny					
Comprehensive self– assessment	I have participated in group v learned about present condit learned about the essentials	vork based on lectu ions of information of ethics for engine	ires by securit ers.	company y in com	y engine Ipanies.	eers, an I have	ıd					
(4)Ability ir	recognizing problem from bro	oad perspective:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments				
Is it suitable fo	or the degree?		6.0	5.44	7.70	8.42		(A, B, C, D : select from the list)				
Main study items	I have acquired credits in Eth	nics for Engineers i	n Busin	iess.				-				
State of progress & evidence	I have listened to lectures on EVIDENCE: Lecture notes o	ethical problems of the classes	of engin	eers and	l compai	nies.						
Future works	Make use of the knowledges	to my thesis										
Comprehensive self- assessment	Though I have heard about e lectures; I have obtained mor learn these problems.	thical problems in t e expansive knowle	the new edge. T	s, etc., his was	by atten a good o	nding th opportu	iese inity to					
(5)Ability ir	n problem solving from objecti	ves to solutions:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments				
Is it a special	ability to understand, and can it lead	to a concrete solution?	4.0	0.00	3.18	3.18		(A, B, C, D : select from the list)				
Main study items	I have participated in group v presentations, and listened to	vork activities. I ha o other speeches at	t CSEC	itted my . I have	prepare	made d my tl	nesis.	-				
State of progress & evidence	I summarized research activit Research notes.	ies which I had dor	ne. EVI	DENCE	: Draft o	of thesi	s,					
Future works	Polish the skill through writir	ng my thesis						-				
Comprehensive self- assessment	Based on the research, discu summarized my research resu by acquiring credits of Resea	ssion, and review, lts.There is a good rch in Risk Enginee	which I l prospe ering II.	have do ect in me	ne, I ha eeting th	ve he stan	dard					
(6)Presenta	ation and communication skill	s:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments				
Is it suitable fo	or the degree?	6.0	1.20	6.00	6.00		(A, B, C, D : select from the list)					

3rd	Date: 20YY/MM/DD	Cyber Risk	ID Number:	Name:
Main study items	I have made presentations English for Improving Readi presentations, and listened and participated in questior	in Seminar in Risk Engine ng and Writing Skills. I h to other speeches at CSI n-and-answer sessions in	eering. I have made a speech in ad submitted my paper, made EC. I have made presentations Seminar in Risk Engineering.	
State of progress & evidence	I made presentations in Sen speeches in English. I have	ninars in Risk Engineering reviewed my research in	g and at CSEC, and had Seminar in Risk Engineering.	
Future works	Enhance the skill for the fir	al defence at master thes	sis.	
Comprehensive self- assessment	I have drawn various diagra After improving the content CSEC, I attended Seminar understand presentations.	ms so that my research r s and diagrams of my pre in Risk Engineering. I th	esults are easy to understand. ssentation which I made at ink I could make easy-to-	
(7)Internati	onal passing:	Committee's comments		
Is the learning	passes internationally in the specia	alized field?	T 1 1 1 1. 1	
Main study items	I have participated in invite made presentations, and lis	d lectures by researchers tened to other speeches	s. I had submitted my paper, at CSEC. I have prepared my	
State of progress & evidence	While preparing my thesis, into consideration. EVIDEN	I have taken its contribut ICE: Thesis draft, Resear	tion to international societies rch notes	
Future works	Enhance the skill, specifica	lly for discussions with na	ative speakers.	
Comprehensive self- assessment	Through discussions with an contribution of my research	nd reviews by my supervi to international societie	sor, I have recognized the s.	
(8)Academi	c publication:			Committee's comments
Is your judged	academic result may give master d	egree?	•.1 1 1	
Main study items	I have conducted a survey a supervisor. I had submitted	and discussed problems w my paper, made present	nth researchers and my ations, and listened to other	
State of progress & evidence	I submitted my paper at CS researchers and my supervi	EC. I had drafted my the sor. EVIDENCE: Thesis	sis, which was reviewed by draft, Research notes	
Future works	Submission of a manuscript	to an international journa	al	
Comprehensive self- assessment	By receiving several review steady progress in preparin	s, I have improved my re g my thesis.	search results. I have made	
Compre- hensive committee 's opinion				

(1) Is the basic ability in a suitable level for degree of the master student in the specialized field?

(2) Is the basic ability in a suitable level for degree of the master student in the special field though it is not deeper than the specialized field?

- $(3) \qquad \mbox{Is it with the sense and understanding of problem of reality at a suitable level?}$
- (4) Is it suitable for the degree?
- (5) Is it a special ability to understand, and can it lead to a concrete solution?

(6) Is it suitable for the degree?

- (7) Is the learning passes internationally in the specialized field?
- (8) Is your judged academic result may give master degree?

1st	Date: 20YY/MM/DD	Urban Risk		ID N	umber:			Name:
(1)Knowled	ge of fundamental/basic theo	ry in the major fiel	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is the basic at	bility in a suitable level for degree of th	ne master student in th	8.0	3.40				(A, B, C, D : select from the list)
Main study items	I have acquired credits, and h outside the university. I have etc., which are necessary for	nave made presenta reviewed statistics my research.	ations in s, learn	n resear ed oper	ch sem ating m	inars in ethods o	and of GIS,	
State of progress & evidence	I have participated in researc was able to understand the ar has lack of knowledge. EVIDF materials, Research notes, Su	h seminars and mac reas in my research ENCE: Academic p Ibmitted papers	de pres 1 that n resenta	entatior eed imp tion ma	ns at co roveme terials,	nference nt and t Seminar	es and hat r	
Future works	I would like to make further p that it can be suitable for aca	rogress of my rese demic submission i	arch an n confe	nd impro erences	ove the or journ	content nals.	s, so	
Comprehensive self– assessment	I believe that conference pres academic endeavor.	sentations have add	led a gi	reat ach	ieveme	nt to my	7	
(2)Knowled	ge of fundamental/basic theor	ry in related fields:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is the basic at	bility in a suitable level for degree of the	ne master student in th	5.0	6.16	 Engino			(A, B, C, D : select from the list)
Main study items	Meeting (RERM) for the Mast	er's Program, and	other of	lomestic	c confer	ences.		-
State of progress & evidence	other fields and RERM. I have participating in academic con- assignments	erai understanding e been able to learn ferences. EVIDENC	n about CE: Leo	cutting	s from . -edge i otes, Le	research cture	in i by	
Future works	I will continue my pursuit for	advanced studies.						
Comprehensive self- assessment	I think I have learned the fun- point exceeded the required v	damentals of relate value. Quite satisfa	he					
(3)Understa	anding Real World Problem:		std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is it with the s	L have acquired credits and p	reality at a suitable lev	6.0	0.00				(A, B, C, D : select from the list)
Maın study items	i nave acquired credits and p		v1.					
State of progress & evidence	I have been able to understar fields by attending lectures, F assignments	d topics and assoc RERM, etc. EVIDE	iated s NCE: F	ummarie RERM m	es, etc. aterials	in vario , Lectur	us re	
Future works	I will keep continuing to parti knowledge.	cipate in RERM an	d other	· lecture	es to br	oaden m	ıy	
Comprehensive self- assessment	By attending lectures such as problems to a standard level.	RERM, I was able	to broa	aden my	v knowle	edge of a	actual	
(4)Ability ir	recognizing problem from bro	oad perspective:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is it suitable fo	or the degree? I have acquired 8 credits in o	ther department's	6.0 subject	5.02 s and fi	elds I ł	ave also		(A, B, C, D : select from the list)
items	participated in RERM for 8 til	mes.						
State of progress & evidence	I would like to expand my per next school year. EVIDENCE	spective by activel RERM attendanc	ly parti e, Lect	cipating ure assi	in REF ignment	M durin s	ig the	
Future works	I will broaden my knowledge seminars.	continuously throu	ıgh atte	ending R	ERM a	nd other	•	
Comprehensive self- assessment	By attending lectures such as approaches for my research a	RERM, I was able nd future work.	to bro	aden my	v perspe	ectives a	and	
(5)Ability ir	n problem solving from objectiv	ves to solutions:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is it a special	ability to understand, and can it lead t	o a concrete solution?	4.0	0.00				(A, B, C, D : select from the list)
Main study items	made a presentation on it.		not re		my res			-
progress & evidence	finding solutions within a grou	ip setting. EVIDEN	NCE: G	roup wo	oropose ork mate	erials		
Future works	I u like to apply this skill, obt	amed inrough the	group v	work, to	able i	earcn.		-
self- assessment	result. I am confident to attai	swine flu in group n better achieveme	ent eve	and was n if I wo	able to rk alon	obtain : e.	a good	
(6)Presenta	ation and communication skills	:	std.	1st	2nd	3rd	4th	Comittee's evaluation & comments
Is it suitable fo	or the degree?		6.0	0.00				(A, B, C, D : select from the list)
Main study items	I have made 2 oral presentati	ons in the universi	ty, and	2 outsi	de the ı	universit	y.	

1st	Date: 20YY/MM/DD	Urban Risk	ID Number:	Name:
State of progress & evidence	The presentation itself has not been able to answer qu	reached to a certain lev estions accurately. EVII	el. However, sometimes I have DENCE: presentation slides	
Future works	I am intended to make futu better preparation for ques	re presentations more cl tion and answer sessions	learly and would also like to make s.	
Comprehensive self- assessment	I believe I had a progress i time keeping.	n my presentation skills,	specifically regarding the skill of	
(7)Internati	onal passing:			Committee's comments
Is the learning	passes internationally in the spec	alized field?		Comments
Main study items	I submitted an abstract to	USMCA2015.		
State of progress & evidence	The abstract has been acce EVICENCE: Draft for USM	epted. At present, I am v ICA2015	writing the paper in English.	
Future works	In order to improve my Enseminars.	glish proficiency, I am pa	urticipating in English writing	
Comprehensive self- assessment	I believe my academic Eng	ish has greatly improved	l.	
(8)Academ	c publication:			
Is your judged	academic result may give master	degree?		Committee's comments
Main study items	I have submitted a paper to a refereed paper to CPIJ20	AIJ2015 and made a pr 15 and made a presenta	esentation. I have also submitted tion.	
State of progress & evidence	After the presentations, I h researchers. I have accept	nave received advice, co ed those to improve my	mments etc. from the research topics and other	
Future works	I would like to reflect rese planning to submit.	archers' comments in th	e present paper that I am	
Comprehensive self- assessment	I will seek to solve problem	is that have been sugges	ted in academic conferences.	
Compre- hensive committee 's opinion				

- (1) Is the basic ability in a suitable level for degree of the master student in the specialized field?
- (2) Is the basic ability in a suitable level for degree of the master student in the special field though it is not deeper than the specialized field?
- $\eqno(3) \qquad \mbox{Is it with the sense and understanding of problem of reality at a suitable level?}$
- (4) Is it suitable for the degree?
- (5) Is it a special ability to understand, and can it lead to a concrete solution?
- (6) Is it suitable for the degree?
- (7) Is the learning passes internationally in the specialized field?
- (8) Is your judged academic result may give master degree?

1st	Date: 20YY/MM/DD	Not Selected	ID Number:	Name:
(1)Knowled	ge of fundamental/basic theo	y in the major field:		Comittee's evaluation & comments
Is the basic al	bility in a suitable level for degree of t	ne master student in the speci	alized field?	(A, B, C, D : select from the list)
Main study items	I have progressed with my resear conferences and academic journa related to Kernel Function and S	rch theme and have submit ds. I am also making progre Semi-Supervised Learning.	ted papers to international ess in understanding literature	
State of progress & evidence	I have submitted papers to confe presentations. Now, I will start t which has been a major part of n research theme. EVIDENCE: Re papers, Submitted papers of con	rences that I was planning o broaden my understandir ny current research, and we search notes, Seminar slide ference	to attend and made oral ng of Semi-Supervised Learning ould like to apply it to my own es+resumes, Submitted journal	
Future works	Currently I do not have a satisfa Learning, I would like to get a m surveys, etc., and apply it to my	ctory understanding of Ker ore accurate understanding research theme.	rnel Function and Semi-Supervised g of them through literature	
Comprehensive self- assessment	I am very happy about having se for international conferences and	veral papers related to the l academic journals.	present research theme selected	
(2)Knowled	ge of fundamental/basic theo	y in related fields:		Comittee's evaluation & comments
Is the basic al	bility in a suitable level for degree of t	ne master student in the speci	al field though it is not deeper than the	(A, B, C, D : select from the list)
Main study items	I have participated in the Advan acquired units in Project Research a session in applied methods for	ced Seminar in Risk Engine ch in Risk Engineering. In t pattern recognition.	eering and RERM, and have the FSS '15, I have participated in	
State of progress & evidence	I feel there is a need for knowled understanding of the theory of the understanding of other fields thr Engineering and RERM. EVIDEN materials	ge and approaches toward ne major field. In addition, bugh participation in the A ICE: Research notes, Draft	application, not just I have broadened my dvanced Seminar in Risk t for Doctral thesis, RERM	
Future works	I feel it is necessary to make a n especially about optimized mathe	nore concerted effort to accematics, and would like to e	quire knowledge of related fields, continue to address analysis,	
Comprehensive self- assessment	I would also like to broaden my	knowledge of applications	in my major field.	
(3)Underst	anding Real World Problem:			Comittee's evaluation & comments
Is it with the s	sense and understanding of problem of	reality at a suitable level?		(A, B, C, D : select from the list)
Main study items	I have participated in the Advan acquired units in Project Research	ced Seminar in Risk Engine ch in Risk Engineering. In t	eering and RERM, and have the FSS '15, I have participated in	
State of progress & evidence	I have broadened my understand statements and application to ac	ing of non-theoretical aspe- tual problems of soft comp	ects such as setting problem uting methods. In addition, I have	
Future works	I will continue to tackle application understanding of both theory and	ons to my research theme d application.	and would like to broaden my	
self- assessment	Through participation in the Adv solve problems in Risk Engineeri	anced Seminar in Risk Eng ng to a certain degree.	gineering and RERM, I was able to	
(4)Ability in	n recognizing problem from bro	ad perspective:		Comittee's evaluation & comments
Main study items	I have participated in the Advan acquired units in Project Resear	ced Seminar in Risk Engine ch in Risk Engineering. I ha	ering and RERM, and have ave also participated in sessions	
State of progress & evidence	I have broadened my understand statements and application to ac	tual problems of soft comp	ects such as setting problem uting methods. In addition, I have	
Future works	I would like to continue participa have not been handling as curren	ating in seminars, etc., to h at problems.	help me think about matters that I	
Comprehensive self- assessment	Through participation in the Adv solve problems in Risk Engineeri	ranced Seminar in Risk Eng ng to a certain degree.	ineering and RERM, I was able to	
(5)Ability in	n problem solving from objectiv	es to solutions:		Comittee's evaluation & comments
is it a special	A new research theme has been	o a concrete solution? set and I am working tower	d its solution. I have acquired	(A, D , U , D : select from the list)
Main study items State of	units in Project Research in Risk	Engineering.	noblem statement is related to	
progress & evidence	existing methods. By undertakin	g Project Research in Risk	Engineering, I have come to	
Future works	Lifeel thet estimate and the		n handened le to l' C	
self- assessment	the research theme. In the Proje	ct Research in Risk Engine	eering, I have been able to	
(6)Present	ation and communication skills	:		Comittee's evaluation & comments
Is it suitable for Main study	or the degree? I have made 7 oral presentations	at domestic symposia and	international conferences. During	(A, B, C, D : select from the list)
items	those times, I had vigorous discu	ssions with researchers fro	om outside of my field.	

1st	Date: 20YY/MM/DD	Not Selected	ID Number:	Name:
State of progress & evidence	Although I was not able to an language question and answer	swer questions well at WCC sessions well at the SCIS at	I, I was able to handle the English- nd MDAI. I also did a pre-FD.	
Future works	I'd like to emphasize my poin	t more clearly at my future p	presentations.	
Comprehensive self- assessment	I feel that I can say that I hav questions in English, and I we	re been able, in 3 months, to buld like to continue to impro) improve my ability to answer ove my English.	
(7)Internati	onal passing:			Committee's comments
Is the learning	passes internationally in the spec	ialized field?		(A, B, C, D : select from the list)
Main study items	Oral presentations were made FUZZ-IEEE'13, GrC'13, WC	e at the following internation CI'14, SCIS'14, MDAI'14	al conferences:	
State of progress & evidence	I have so far made oral present international conferences, I w currently in referee reading. I conferences	ntations at 5 international co as recommended for Special EVIDENCE: Programs, Abst	onferences. At 2 of this year's Issues, and the manuscripts are racts and slides of these	
Future works	Q&A in English is the most p	roblematic for me. Need imp	rovement.	
Comprehensive self- assessment	I believe I recently become ad	ccustomed to making oral pr	esentations in English.	
(8)Academ	ic publication:			Committee's comments
Is your judged	academic result may give master	degree?		(A, B, C, D : select from the list)
Main study items	Our manuscript submitted to Informatics was accepted and	the Journal of Japan Society published. In addition, I was	for Fuzzy Theory and Intelligent s selected as First Author for a	
State of progress & evidence	I would like to continue to su journals. I would especially lik	bmit manuscripts to internat te to undertake research tha	ional conferences and academic t will enable me to submit papers to	
Future works	I need more growth and I'd lil	ke to achieve more higher le	vel in my research field.	
Comprehensive self- assessment	I am happy about being accep Japan Society for Fuzzy Theo	oted as a First Author for a p ry and Intelligent Informatic	paper submitted to the Journal of s and numerous manuscripts	
Compre- hensive committee 's opinion				

- (1) Is the basic ability in a suitable level for degree of the master student in the specialized field?
- (2) Is the basic ability in a suitable level for degree of the master student in the special field though it is not deeper than the specialized field?
- $\eqno(3) \qquad \mbox{Is it with the sense and understanding of problem of reality at a suitable level?}$
- (4) Is it suitable for the degree?
- (5) Is it a special ability to understand, and can it lead to a concrete solution?
- (6) Is it suitable for the degree?
- (7) Is the learning passes internationally in the specialized field?
- (8) Is your judged academic result may give master degree?

5 Point Application Sheets

Method for Entering "Achievement level Evaluation Materials" file (for Master's Program)

1. Contents of "Achievement Level Evaluation Materials" file

62 Common Topics in Risk Engineering in Master's Program I (2009AY)	1	0.5	0.25	0.25											
63 Common Topics in Risk Engineering in Master's Program II (2009AY)	1	0.5	0.25	0.25											
64 Common Topics in Risk Engineering in Master's Program III (2009AY)	1	0.5	0.25	0.25											
65 Common Topics in Risk Engineering in Master's Program IV (2009AY)	1	0.5	0.25	0.25											
I Point Application (1) / Point Application (2) / Point A	pplicatio	on (3) Course	Credit P	oint <u>E</u> v	valuation	. <mark>(1) ∕</mark> Ev	/aluation	<mark>(2) / E</mark>	valuation	(3) <u>/</u> E	valuation (4	l) Graph	🖉 Evalua	ition Rec	ord 🟒
٦ 															
 Point Application sheet (1)-(3) Course Credit Points sheet Achievement Level Evaluation s Graph Record of Achievement Level E 	heet valu	ation			,	Tota	1 10	shee	ets						

2. Method for Entering "Point Application sheet" and Application Procedure

(1) In most cases, applications should be made during the period prescribed. The following is an approximate schedule. Students will be notified of the exact dates by e-mail.

Application Period for Spring A, B, and C modules: Early in April

Application Period for Autumn A, B, and C Modules: Early in October

You should offer the application immediately when adding or changing courses.

(2) Starting from the "Point Application (1)" sheet

* Even if you mistakenly start from "Point Application (2)" or "Point Application (3)" sheet, information will be reflected in the point sheet. However, it will be hard to understand when confirming the information, so it is advisable to start from "Point Application (1)"

	A	в	0	D	E	F	G	Н	1	J	к	L		M	N	0	1	P	Q	R	
1						Poin	t App	lication	Sheet 1 (for Mas	ter's Pro	ogram S	tude	nts)							
2	Fi	ield		Not S	elected		School → ear	Not Selected	Student's Name				Na A Ev	ime of t chiever aluation	the Chai nent Lev Commi	r of /el ttee					

(3) Select "Field" and "School Year" (at the time of data entry) from the drop-down list.

(4) Enter "Student's Name" and name of "Name of the Chair of Achievement Level Evaluation Committee."

15	₽	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	≥	Date of Application	Results
16	plication	Not Selected												oplication		Not Selected
17	4	ltem number	Syllabi Page	Term of course	Time of class	Credits	Total in Poin	Appli. Reason:					Application Division	appr	Approved 选評 專攻長	
18	'			Not Selected	Not Selected		0.0						Not Selected	pavo	Date 全日 永認済 本認済	

(5) You can enter data in all blanks outside of the "Results" column. "Results" can be entered after the application has been approved.

(6) Click "Section Selection" and choose one of the following from the drop-down list: Courses from other faculties Common courses of the graduate school Courses of other departments Common courses of the faculty

If you choose "Courses from other faculties" and "Common courses of the graduate school," underneath the grade entry column you will see "Application must be sent to the Graduate School Registrar's Office." The application is in the website for Master's students. Please refer to the Graduate Student page to fill it out. Submit the completed form directly to the Graduate School Registrar's Office. http://www.sie.tsukuba.ac.jp/private/pub-student/

(7) Enter Name of desired item, Item number, Syllabi Page Number, Term of course, Time of class, Credits, and Point distribution proposal.

*Please refer to the Graduate School syllabus (Class Schedule) to enter accurate information.

*If the spaces for "Term of course," "Time of class," etc., in the Graduate Student syllabus are empty, do not select any option from the drop box but rather leave the space(s) blank.

- (8) Students should apply by sending an e-mail with the entire "Achievement Level Evaluation Materials" file attached to the Chairperson of the Achievement Level Evaluation Committee.
- (9) The Chairperson will check the contents of the application, then will send to the GP Core Mailing List a "Request for Approval" e-mail with the entire "Achievement Level Evaluation Materials" file attached.
- (10) If the application is approved, then the processed files ("Approved by the Chairperson of the Achievement Level Evaluation Committee" and "Approved by the Provost of the Master's Program" marked in red, with application contents locked and Academic Results column unlocked) are sent to the student and to the Chairperson of the Achievement Level Evaluation Committee. If you receive notification that the application was not approved, you will have to reapply.
- (11) For the next application, you will not need a separate sheet; start with the blank spaces at the top of the same sheet, and work your way down.

3. Entering information before the meeting of the Achievement Level Evaluation Committee (1) Prepare the grade chart in TWINS.

(2) Open the "Course Credit Points" sheet in "Achievement Level Evaluation Materials" file.

If a file does not enter properly, some of the data may be missing. Please make sure that all required spaces are filled in and try again.

(3) Enter the date as year/month/day. For example, 1 April 2010 would be entered as 2010/4/1.

. A	A	В	С	D	E	F	G	L	Q	V	AA	AF	AK	AM	AO	AQ
1	Date Prepa	e of ration			School Year	Not Selected	Field	N	lot Selecte	d	Student's Name					
3	Comn Sectio	nittee on	Select this cell.	aquired credits	(1)Know major	ledge of field	(2) Know related	/ledge of I fields	(3) Know Real	vledge of World	(4) B Persp	road ective	(5) Abili problem s	ty in olving	(6) Pres and Comr	sentation munication
4	1st	а	Items of this department	0	0.0)	0.0)	0.0)	0.	0	0.0)	0	.0
5	Comn	b	Items of other departments etc.	0	0.0)	0.0)	0.0)	0.	0	0.0)	0	.0
б	nittee	С	Total in the 1st Committee (a+b)	0	0.0	0.0)	0.0)	0.	0	0.0)	0	.0
7	2nd	d	Items of this department	0	0.0	0.0)	0.0)	0.	0	0.0)	0	.0
8	Comr	е	Items of other departments etc.	0	0.0)	0.0)	0.0)	0.	0	0.0)	0	.0
9	nittee	f	Ttotal in the 2nd Committee (c+d+e)	0	0.0	0.0)	0.0)	0.	0	0.0)	0	.0
10	3rd	g	Items of this department	0	0.0	0.0)	0.0)	0.	0	0.0)	0	.0
11	Com	h	Items of other departments etc.	0	0.0		0.0)	0.0)	0.	0	0.0)	0	.0

(4) Select "Academic Year" (at the time of data entry) and "Field" from the drop-list menu. *You must select "Field"

(5) Enter your "Name."

(6) Select "Committee Section" from the drop-down list.

Example: If you select "1st Achievement Level Evaluation Committee," then the cell "Enter 1st Academic Results" will appear in yellow type.

*Please note that if there is no selection, it will not be accurately reflected in the graph.

19	ltem Division	Name of item	ltem number	Credits	(1) Major	(2) Related	(3) Real	(4) Broad	(5) Solving	(6) Presen.	Result (1st Comm.)	Result (2nd Comm.)	Result (3rd Comm.)	Result (4th Comm.)
20	Common	Seminar in Risk Engineering I (till 2010 AY : Seminar in Risk Engineering)	01CF001	1	0.5					0.5		•		
21	Common	Seminar in Risk Engineering II	01CF002	2	1.0					1.0				
22	Common	Research in Risk Engineering I	01CF011	4	1.5		0.5		1.0	1.0				
23	Common	Research in Risk Engineering II	01CF012	4	1.0		1.0		1.5	0.5				
24	Common	Research in Risk Engineering II (till 2010AY)		6	2.0		1.0		1.5	1.5				
25	Common	Group Work in Risk Engineering	01CF021	2				1.5	1.5	3.0				

- (7) Please select the Results (Grades) from the drop-down list while referring to your transcript of academic results.
- (8) For courses that are outside your major field, enter your grades (results) in "Point Application sheets (1)-(3)". If a point application was not made for a course in another major field, the grade cannot be entered. If it was for a reason beyond your control, even if it was outside the term in question, please apply according to the procedure in the aforementioned 2. Method for Entering "Point Application sheet" and Application Procedure. In such a case, you should state the reason for applying outside of the term in the text of your e-mail in order to request approval.
- (9) Open the applicable sheet from among Evaluation (1)-(4), and enter the Day of the first committee, Name of field, and Student number. Your name will become a link from the Course Credit Points sheet.

									Evaluation (1)
1st Assessment Committee on Student Achievement		Date :	December DD, YYYY	Field :	Not Selected	Student Number:	XXXXXXXXXX	Name :	
Achievement level evaluation items (Standard points)	A	cquired points	Acquired credits	Main study items	State of progress/Future assessment of subject	Evidence (References)	Comprehensive self- assessment of student's achievements	evaluation of student achievement	Committee's comments * Comments can be anonymous (A: Member name B: Member name C: Member name)
(1)Knowledge of fundamental/basic theory	1st	0.00						Excellent	
in the major field	2nd							Satisfactory Needs	A: B:
ability in a suitable level for	3rd							improvement Fall short of	C: D:
in the specialized field?	4th							achievement level	
(2)Knowledge of fundamental/basic theory in	1st	0.00						Excellent	
related fields (standard 5): Is the basic ability in a suitable level for degree of the master	2nd							Satisfactory Needs improvement	AC B: C:

- (10) Enter self-evaluation. If entering evaluations (2)-(4), enter the difference from the previous time in red letters.
- (11) On the Graph sheet, enter your "Name", "Affiliated Field", and "Date" (day the materials were created).

	А	В	С	D	E	F	G	Н	Ι
1	Student's Name					Field	Not Selected	Date	
2									
3				Aquir	ed points as of	f the 1st Comm	nittee		
4		1st Commi	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication	
5		ttee	0.0	0.0	0.0	0.0	0.0	0.0	
6		Ratio	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
7									
8				Aquir	ed points as of	the 2nd Comr	nittee		
9		2nd Commi	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication	
10		ttee	0	0	0	0	0	0	
11		Ratio	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
12									

4. Materials required by the Achievement Level Evaluation Committee

Name of material	No. of sheets	Target Students
TWINS Personal Academic Results sheet	One	Everyone
Student Portfolio Evidence File	One form	Everyone
Achievement Level Evaluation sheet	One set for each member of	Everyone
(self-evaluation sheet)	the committee	
Course Credit Points sheet	One set for each member of	Master's students
	the committee	
Graphs	One set for each member of	Master's students
	the committee	
Point Application sheet	One set for each member of	Applicants for the
	the committee	Master's program

5. For further information

If you have questions about creating materials, please contact the TA of each field, or see the TA mailing list at risk-gp-ta@risk.tsukuba.ac.jp.



											ดส ะห	
科目番号	大学院共通科目・研究科共通科目	単位数	開講時期	曜時限	ポイント 総計	①専門基 礎	②関連分 野基礎	③現実問 題の知識	④広い視野	⑤問題設定から解決まで	ジーニミュ ニケー ション能	備考
0177101	「分析・操作の対象と」、ての人間」と「人格と」、ての人間」	1	秋A	隼中	1		0.4	0.3	0.3		7	
01ZZ103	応用倫理	1	秋A	集中	1		0.4	0.3	0.3			
01ZZ104	環境倫理学概論	1	秋B	集中	1		0.4	0.3	0.3			
0177106	研究[[]] 理 生命倫理学	1	春B 利/A	<u> - 小小</u> 生中にみ	1		0.4	0.3	0.3			
01ZZ100	企業と技術者の倫理	1	春C	集中	1		0.4	0.3	0.3			
01ZZ201	研究学 -独創的研究を目指して-	1	秋AB	集中以外	1		0.4	0.3	0.3			
01ZZ202	リスクマネジメント序論	1	春C 利の	集中	1		0.4	0.3	0.3			
0122203	科学技術・学術政策概論	1	春B	集中	1				1			
01ZZ205	研究者のための学術情報流通論	1	春AB	集中	1				1			
01ZZ206	Research Management Skills	1	秋A	集中	1				1			
0122301	洗 <u>病コミューケーダー・インダーンシップ</u> テクニカルコミュニケーション	1	春AB 春A	集 中 集中	1				0.5		0.5	
01ZZ305	英語発表	1	春C	集中	1				0.0		1	
01ZZ306	科学英語論文ライティングープラクティス	1	春C	集中	1						1	
01ZZ308	サイエンスコミュニケータを成実践講座 男公堅コミュニケーションのためのプレゼンテーションバトル	4		<u>集中</u> 焦山	1				0.5		0.5	
01ZZ312	Communication Skills Training	1	秋ABC	集中	1				0.5		0.5	
01ZZ314	第一線研究者 教員プレゼンバトル	1	春AB秋AB	集中	1				0.5		0.5	
01ZZ316		1	通年	集中	1						1	
0177310	サイエンスコミューケーション做講	1	春ABC 利ABC	<u> </u>	1						1	
01ZZ313	実践型 科学コミュニケーション・トレーニング	2	诵年	集中	2						2	
01ZZ321	グローバル交渉と国際対話—筑波英語模擬国連	2	秋AB	集中	2						2	
01ZZ322	サイエンスコミュニケーション実践論	1	春ABC	集中以外	1						1	
0122323	リスクコミューケーションスド 21世紀的中国現代中国的多相	2	秋ABC 春AB	生中以外	1				1			
01ZZ405	Special Preparation for TOEFL iBT	1	秋A	集中	L_i	L			<u> </u>		1	
01ZZ410	国際研究プロジェクト(受講にあたっては別途協議)	1	通年	集中								
01ZZ411	国際インターンシップ(受講にあたっては別途協議)	1	通年	集中	1				0.5		0.5	
01ZZ412 01ZZ413	Global Communication Practice 国際環境問題と日本外交	1	通午 春B秋A	集中	1				0.5		0.5	
01ZZ414	国際ビジネスと標準化	1	春ABC	集中	1				1			
01ZZ501	<u>教育・研究指導II(教師論)</u>	1	秋ABC	集中	1				1			
0122502	<u>教育・研究指導III職業としての大学教育)</u> 「仕事と生活」と思女共同参画-WLR(ワーク・ライフ・バランス)を軸	1	春ABC	集中	1				1			
01ZZ503	「日本とエカ」と方文共同多画「WEB、ケーク・クイク・ハウクス」を軸 に未来予想図を描こう-	1	夏季休業中	集中	1				1			
01ZZ504	「魅力ある理科教員になるための生物・地学実験」	2	通年	集中	1				1			
01ZZ505	博士のキャリアパス	1	春ABC	集中	1				1			
01ZZ510	世界に挑む産業界・音界トツノリーターによる建続リレー講義:在 会其磁学グローバル人材に不可欠な教養I	1	春AB	集中	1				1			
01ZZ511	世界に挑む産業界・官界トップリーダーによる連続リレー講義:社 会基礎学―グローバル人材に不可欠な教養II―	1	春BC	集中	1				1			
01ZZ512	世界に挑む産業界・官界トップリーダーによる連続リレー講義:社 会基礎学—グローバル人材に不可欠な教養Ⅲ—	1	秋AB	集中	1				1			
01ZZ513	JAPICアドバンストディスカッションコースI-多極化時代への日本の挑戦、そして諸君の挑戦	1	春ABC	集中	1				1			
01ZZ514	スパートン・スティスカッションコースII-コーポレートガバナン ス(企業統治)についての事例研究	1	秋AB	集中	1				1			
01ZZ515	UAPICアドバンストディスカッションコースIII-テクノロジーとグロー	1	秋BC	集中	1				1			
01ZZ517	Introduction to Management	1	秋AB	集中	1				1			
01ZZ519	キャリア形成のためのセルフプロモーション実習	1	春C秋ABC	集中	1						1	
01ZZ520	「仕事と生活」と男女共同参画II-WLB(ワーク・ライフ・バランス)を	1	春季休業中	集中	1				1			
01ZZ521	電圧 本 ア 認 図 を 捕 こ つ Career Development for University Students	1	秋ABC	集中	1				1			
0177522	高校における科学コミュニケーション教育	1	春ABC	集中	1						1	
01ZZ523	ワークライフミックス- モーハウスに学ぶパラダイムシフト	1	春ABC	集中	1				1			
01ZZ524	Design/Create Future with Vitae RDF 化学物質の安全衛生管理	1	· <u>)</u> · 弄∆R	<u> 集田</u> 隼山以外	1		0.4	0.3	0.3			
01ZZ602	放射線科学 —その基礎理論と応用—	1	春A	集中	1		0.4	0.0	1			
0177603	機械工作序論と実習	1	春C夏季休業中	集中	1				1			
01ZZ604	計算科字リテラシー 計算科学リテラシー Computational Science Literacy	1	春ABC 利ABC	集中	1				1			
0122605	計算科学のための高性能並列計算技術(日本語)	1	春ABC	集中	1				1			
01ZZ607	計算科学のための高性能並列計算技術 High Performance Parallel Computing Technology for Computational Sciences	1	秋ABC	集中	1				1			
01ZZ609	Science Mini−tour to Top Research Institutes in Tsukuba Science Citv	1	秋ABC	集中	1				1			
01ZZ610	環境・エネルギー・経済(3E)概論	1	秋ABC	集中	1		0.4	0.3	0.3			
0177611	生物多様性と地球環境	1	春C 素 A D O	集中	1		0.4	0.3	0.3			
0122612	19司 共主と生物理12 日本の屋根のフィールドに出かけよう	1	音ABU 诵年	集中		1			1			L
01ZZ614	海洋生物の世界と海洋環境講座	1	夏季休業中	集中	1				1			
01ZZ615	UT-Top Academist's Lecture	1	春AB	集中以外	1				1			
U1ZZ616	ハフォーマンス&アーツにみる身体 にころの神経利学	1	<u> </u>	<u>集中</u> 隼山		+			1			
01ZZ618	科学的発見と創造性		春A	集中								
01ZZ619	宇宙の歴史	1	秋A	集中	1				1			
01ZZ621	自然災害にどう向き合うか 「あることを知った」	1	春C	集中以外	1		0.4	0.3	0.3			
0122622	<u> 考える 劉物としての人間-東四哲字からの考察</u> かたち」と「こころ」		<u>秋U谷全休美中</u> 利ABC	集甲 隼山		1			1			
01ZZ702	大学院体育1:つくばマラソン	1	春AB秋AB	<u>集中以外</u>								
01ZZ703	大学院体育2:水泳	1	春AB秋AB	集中以外								
0177704	大字院体育3:バスケットボール	1	春AB秋AB	<u>集中以外</u>	<u> </u>							ļ
0122706	<u>へそ阮14月5小ナイソーソ(果洋的身体技法)</u> 大学院体育5スノースポーツ	1	☆AB 春季休業山	素甲 集中								
01ZZ708	身体表現論 —和太鼓の実践を通して—	1	秋ABC	集中								
01ZZ710	大学院生の心身の健康管理	1	秋AB	集中以外							<u> </u>	
01ZZ711	大学院体育6:テニス 大学院体育7: 哭城海動		春AB秋AB 春ABC	<u>集中以外</u>								
01ZZ712	<u>大学院体育9:マリンスポ</u> ーツ		春BC	集中	L	L						
01ZZ715	大学院体育10:日本の体育・スポーツ文化	1	春C	集中								
0177717	大学院体育125~20~20万の世界	1	寿C	隹山いみ	1	1	l I		l I	I	1	1

*This is a sample

	Point <i>i</i>	Applic	ation S	Sheet 1 (for Master's Program	Students)	
Field	Env & Energy Risk	School Year	M2	Student's Name	XXXXXX XXXX	Name of the Chair of Achievement Level Evaluation Committee	XXXXXX XXXX

(1) To receive credits for common courses of the graduate school, common courses of the faculty, or courses of other faculties, departments, etc., you should submit a "Point Application Short". Regarding common courses of the graduate school and courses of other faculties, you should also submit "Credits for Courses of Other Faculties" to Academic Service at the Office of Graduate School of Systems and Information Engineering. (2) Applications for credits in common courses of the graduate school and common courses of the faculty: Please arrange credit applications following the instructions in the attached file "Credits in Common Courses of the Graduate School and the Faculty."

(3) For other types of credits not described above: Consult with the Chair of your Achievement Level Evaluation Committee to determine whether the credits apply to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." After the credits are determined to be applicable to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." please multiply the number of credits by whatever is applicable below and enter the result as applied points.

1) A: fundamental theory in the major field:(a) Major field: 0.5, (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
2) B: fundamental theory in a related field:(b) Related field: (0.5, (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
In cases where it is thought that neither A) "fundamental theory in the major field" nor B) "fundamental theory of a related field" applies, then the Chair should make an inquiry of the Risk Core Group at the following address in order to determine the applied points: risk-gp-core@risk.tsukuba.ac.jp

(4) Flow of the application:

1) The student sends the entire Excel file "Achievement Level Evaluation Materials" as an attachment in an e-mail to the Chair of the Achievement Level Evaluation Committee.

(1) The student sense the entre Level Evaluation Committee checks the contents of the application, then sends a request for approval to the GP Core Mailing List.
 (2) The Chair of the Achievement Level Evaluation Committee checks the contents of the application, then sends a request for approval to the GP Core Mailing List.
 (3) If the application is approved, the notice from the GP Office and the processed Excel file "Achievement Level Evaluation Materials" are sent by e-mail. If approval has been denied, then the application must be resubmitted.
 (4) Before the meeting of the Achievement Level Evaluation Committee is held, the student enters his/her grades for the applicable courses (they will be reflected automatically in the Point Sheet).

Ap	Section Selection		Name	of desire	d item	,	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	4	Date of Appli	cation	Results
plication	Courses of other departm		Universa	ıl Enegy l	Resouc	es		1.0	0.5	0.5			pplication	April 23, 2	20xx	А
1	tem number 01CM423	Syllabi Pag 312	Term of course	Time of class	Credits 2	Fotal in Poir 2.0	Appli. Reason:	I think this le specialty.	ecture is deep	ly related wit	h my	Application Divisior 1 st	approved	April 24, 20xx <mark>委員長</mark> 承認済	専攻長 承認済	
Ap	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	₽	Date of Appli	cation	Results
plication	Commo n courses	Fund	damental	ls of Risk	Engin	eering		0.4	0.3	0.3			oplication	April 26, 2	20xx	А
2	tem number 01ZZ008	Syllabi Pag -	Term of course	Time of class ensive course	Credits 1	Fotal in Poir 1.0	Appli. Reason:	I want to lease engineering.	rn the fundan	nentals of risk		Application Divisior	approved	April 27, 20xx 柔員長 承認済	専攻長 承認済	
Þ	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation		Date of Appli	cation	Results
oplication	Courses of other departm	A	Advanced R	l Course lecognitio	of Patt on	ern		1.0	0.5	0.5			Application	April 26, 2	20xx	В
3	tem number	Syllabi Pag	Term of course	Time of class	Credits	Fotal in Poir	Appli. Reason:	I think this le specialty.	ecture is deep	ly related wit	h my	Application Divisior	approv	April 27, 20xx 委員長	専攻長	
	01CK404	309	1	intensive cou	2	2.0		· ·				1st	/ed	2000 承認済	承配例	
App	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Ap	Date of Appli	cation	Results
lication	Not Selected												plication			Not Selected
4	tem number	Syllabi Pag	Term of course	Time of class	Credits	Fotal in Poir	Appli. Reason:					Application Division	approve	Approve d Date	専攻長 承認済	
Þ	Section Selection		Name	of desire	d item	0.0	(1)Maior field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	đ	Date of Appli	cation	Results
,ppli			Nume	or acone	u nom		(I)Major neia		(o)rteal World	(1)Dioda 1 613.	(b)bolving ubil.	(o)r resentation	Appli	Date et Appli		NUM
cation	Not Selected												cation a	144 ST		Not Selected
5	tem number	Syllabi Pag	Ferm of course Not Selected	Time of class	Credits	Fotal in Poir	Appli. Reason:					Application Divisior Not Selected	pproved	Approve d Date 本認済	専攻長 承認済	
Ap	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	A	Date of Appli	cation	Results
olication	Not Selected												oplication			Not Selected
6	tem number	Syllabi Pag	Term of course	Time of class	Credits	Fotal in Poir	Appli. Reason:					Application Division	approve	Approve d Date	専攻長 承認済	
\triangleright	Section		Nome	of desire	ditore	0.0	(1)Major field	(2) Dolatod field	(2) Pool Morte	(A) Broad Doro	(5)Solving abil	(6)Procentation	ğ	 ■ Date of Appli	cation	Posulto
ppli	Selection		Name	or desire	anem					(H)DI Odu Pei S.	(J)JOIVIIIY ADII.	OFTESCHILLION	Appl		cation	Nesuits
ication	Not Selected												ication			Not Selected
7	tem number	Syllabi Pag	Term of course	Time of class	Credits	Fotal in Poir	Appli. Reason:					Application Division	approve	Approve d Date 英員長	専攻長 承認済	
						0.0							4	AP 100 (A		
J	Tota As of	al Poin f <mark>1st</mark> A	ts of othe chieveme	er departn ent Level	nents e Evaluat	tc. tion	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of other	5	Credits
otali			Comn	nittee			0.0	2.68	1.46	1.46	0.0	0.0	de	epartments etc.	-	
in A	Tota As of	al Poin [:] 2nd A	ts of othe chieveme	er departn ent Level	nents e Evalua	tc. tion	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of other	0	Credits
pplic			Comn	nittee			0.0	0.0	0.0	0.0	0.0	0.0	de	epartments etc.		
ation	Tota As of	al Poin f <mark>3rd</mark> A	ts of othe chieveme Comp	er departn ent Level nittee	nents e Evalua	tc. tion	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	T de	otal Credits of other	0	Credits
1 t	Tota	al Poin	ts of othe	er departn	ients e	tc.	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	T	otal Credits of		
o 7	As of	f <mark>4th</mark> A	chieveme Comn	ent Level nittee	Evalua	tion	0.0	0.0	0.0	0.0	0.0	0.0	de	other epartments etc.	0	Credits

Course Creait Point

Date of Preparation	February 1, 20xx		School Year	M2	Field	Env	& Energ	y Risk	Student's Name		XXX	XXXX X	XXX	
Committee Section	4th Committee	aquired credits	(1)Know major	ledge of field	(2) Knov related	vledge of d fields	(3) Knov Real	wledge of World	(4) B Persp	road ective	(5) At problen	oility in n solving	(0) Fies ai	entation nd
1st a	Items of this department	11	3.6	;	2.1	18	3.	01	3.	01	0	.0	0	.0
Comr b	Items of other departments etc.	5	0.0)	2.0	68	1.	46	1.	46	0	.0	0	0
nittee	Total in the 1st Committee (a+b)	16	3.6	;	4.8	86	4.	47	4.	47	0	.0	0.	.0
^e 2nc	Items of this department	17	5.2	2	2.	5	3.	35	4.	55	3	.0	5	4
I Con	Items of other departments etc.	0	0.0)	0.0	0	0.	0	0	.0	0	.0	0	0
nmitte	I total in the 2nd Committee	33	8.8	2	7	36	7	82	9	02	3	0	5	4
	(c+h+o)	55	0.0	<u> </u>	2.	20	1.	15	J.	15	0	.0	0	<u>-</u>
	items of this department	о О	0.0		2	<u> </u>	1.	15	1.	15	0	.0	0	0
n n	Items of other departments etc.	0	0.0)	0.0	0	0.	0	0	.0	0	.0	0	.0
tee	Total in the 3rd Committee (f+g+h)	38	8.8	8	9.0	66	8.	97	10	.17	3	.0	5.	.4
Gom	Items of this department	6	2.4		0.0	0	1.	2	0	.0	1	.8	1.	.8
h k	Items of other departments etc.	0	0.0)	0.0	0	0.	0	0	.0	0	.0	0	0
Tot	al (a+b+d+e+g+h+j+k)	44	11.	2	9.0	66	10	.17	10.	17	4.	8	7.2	2
	Standard Point		8.0)	5.0)	6.	0	6.0)	4.	0	6.0)
	difference form standard poir	nt	3.2	2	4.0	66	4	17	4	17	0	8	1.3	2
Itom			Itom		(1)	(2)	(3)	(4)	(5)	(6)	Dec	Dearth	Dearth	Down
Division	Name of item		number	Credits	Major	Related	Real	Broad	Solving	Presen.	(1st Comm.)	(2nd Comm.)	(3rd Comm.)	(4th Comm.)
Common	Seminar in Risk Engineering I (till 2010 AY : Seminar in Risk Engine	ering)	01CF001	1	0.5					0.5		Α		
Common	Seminar in Risk Engineering II	0,	01CF002	2	1.0					1.0				Α
Common	Research in Risk Engineering I		01CF011	4	1.5		0.5		1.0	1.0		Α		
Common	Research in Risk Engineering II	040432	01CF012	4	1.0		1.0		1.5	0.5				Α
Common	Group Work in Risk Engineering II (ull 20	UTUAY)	01CE021	0	2.0		1.0	15	1.5	1.5		Δ		
Common	Introduction to Risk Engineering		01CF022	1		0.4	0.3	0.3	1.5	5.0	Α			
Common	Fundamentals of Risk Engineering		01CF023	1		0.4	0.3	0.3				в		
Common	(till 2009AY : Fundamentals of Risk S Internship in Risk Engineering	ecurity)	01CE031	1		•	0.3	0.3	0.4					
Total Risk	Introduction to Soft Computing I		01CF101	2		1.0	0.5	0.5	0.4					
Total Risk	Introduction to Soft Computing II		01CF102	2		1.0	0.5	0.5						
Total Risk	Seminar in Soft Computing		01CF103	1		0.5	0.25	0.25				В		
Total Risk	Theory of Stochastic Systems and Its	Application	01CF104	2		1.0	0.5	0.5						
Total Risk	Soft Data Analysis (till 2011 AY)		01CF105	2		1.0	0.5	0.5						
Total Risk	Reliability and Safety of Large-Compl	ex Systems	01CF106	2		1.0	0.5	0.5						
Total Risk	Cognitive Risk Analysis		01CF107	2		1.0	0.5	0.5			Α			
Total Risk	Integration of Information with Diversi	ty	01CF108	2		1.0	0.5	0.5						
Cyber Risl	Advanced Course in Authentication S	ystems	01CF201	2		1.0	0.5	0.5					-	
Cyber Risl	Introduction to Modern Information Processing and Communication Processing	ication Network	01CF202	2		10	0.5	0.5					В	
Cyber Risl	Advanced Course in Network Security	y I	01CF204	2		1.0	0.5	0.20						
Cyber Risl	Advanced Course in Network Security	y II	01CF205	2		1.0	0.5	0.5						
Cvber Risl	Advanced Course in Cyber Risk (till 2009 AY : Advanced Course in	Distributed	01CF206	1		0.5	0.25	0.25						
	Multimedia Systems)					0.0	0.20	0.20						
Cyber Risl	Advanced Course on Information Sec	curity	01CF207	2		1.0	0.5	0.5					С	
Jrban Risl	Risk in Urban Systems		01CF302	2		1.0	0.5	0.5						
Jrban Risl	Urban Structural Systems		01CF303	2		1.0	0.5	0.5						
Jrban Risl	Urban Risk Communication		01CF304	2		1.0	0.5	0.5				В		
Jrban Risl	Urban and Regional Analysis		01CF305	2		1.0	0.5	0.5						
Jrban Risl	Seminar in Urban Risk Analysis Risk Assessment on Energy Systems		01CF306	2	1.0	1.0	0.5	0.5			B			
Inv&Energ	Lecture on Advanced Energy Theory		01CF402	2	1.0		0.5	0.5			C			
inv&Energ	Advanced Course in Energy Science		01CF403	2	1.0		0.5	0.5			A			
inv&Energ	Seminar in Risk Analysis and Assessment on Er	nergy Systems	01CF404	1	0.5		0.25	0.25				Α		
nv&Energ	Risk in Process Systems		01CF405	2	1.0		0.5	0.5				A		
.nv&Energ	Auvanced Reliability Engineering	m (Security)	01CF406	2	1.0	0.5	0.5	0.5				В		
Common	Topics in Risk Engineering in Master's Program (Rem	note Sensing)	01CF903	1		0.5	0.25	0.25						
Common	Topics in Risk Engineering in Masters	s Program	01CF904	1		0.5	0.25	0.25						
Common	Topics in Risk Engineering in Master's Program (Relia	y) (2010AY)	1		0.5	0.25	0.25							
Common	Topics in Risk Engineering in Master's Program (Methdolog	ring) (2010AY)	1	0.5	0.5	0.25	0.25							
Common	Topics in Risk Engineering in Master's	Program I (2	2009AY)	1	0.5	0.5	0.25	0.25			A			
Common	Topics in Risk Engineering in Master's	Program III	(2009AY)	1	20	0.5	0.25	0.25				Α		
Common	Topics in Risk Engineering in Master's	Program IV	(200947)	1	. JO	0.5	0.25	0.25	1				Р	

Graph

Student's Name	XXXXXX XXXX	Field	Env & Energy Risk	Date	Feb. 1, 20xx
-					

	Aquired points as of the 1st Committee											
1ct	(1)Knowledge	(2) Knowledge	(3) Knowledge	(4) Broad	(5) Ability in	(6) Presentation						
Com	of major field	of related fields	of Real World	Perspective	problem	and Communication						
mittee	3.6	4.86	4.47	4.47	0.0	0.0						
Ratio	45.0%	97.2%	74 5%	74 5%	0.0%	0.0%						

Aquired points as of the 2nd Committee

2nd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem	(6) Presentation and Communication
mittee	8.8	7.36	7.82	9.02	3.0	5.4
Ratio	110.0%	147.2%	130.3%	150.3%	75.0%	90.0%

Aquired points as of the 3rd Committee

3rd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication	
mittee	8.8	9.66	8.97	10.17	3.0	5.4	
Ratio	110.0%	193.2%	149.5%	169.5%	75.0%	90.0%	

Aquired points as of the 4th Committee

4th	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication	
mittee	11.2	9.66	10.17	10.17	4.8	7.2	
Ratio	140.0%	193.2%	169.5%	169.5%	120.0%	120.0%	

Standard Point

Standard	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication
Point	8.0	5.0	6.0	6.0	4.0	6.0
Ratio	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



	Point Application Sheet 1 (for Master's Program Students)											
Field	Total Risk Management	School Year	M2	Student's Name	XXXXXX XXXX	Name of the Chair of Achievement Level Evaluation Committee	XXXXXX XXXX					

(1) To receive credits for common courses of the graduate school, common courses of the faculty, or courses of other faculties, departments, etc., you should submit a "Point Application Short". Regarding common courses of the graduate school and courses of other faculties, you should also submit "Credits for Courses of Other Faculties" to Academic Service at the Office of Graduate School of Systems and Information Engineering. (2) Applications for credits in common courses of the graduate school and common courses of the faculty: Please arrange credit applications following the instructions in the attached file "Credits in Common Courses of the Graduate School and the Faculty."

(3) For other types of credits not described above: Consult with the Chair of your Achievement Level Evaluation Committee to determine whether the credits apply to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." After the credits are determined to be applicable to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." please multiply the number of credits by whatever is applicable below and enter the result as applied points.

1) A: fundamental theory in the major field:(a) Major field: 0.5, (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
2) B: fundamental theory in a related field:(b) Related field: (0.5, (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
In cases where it is thought that neither A) "fundamental theory in the major field" nor B) "fundamental theory of a related field" applies, then the Chair should make an inquiry of the Risk Core Group at the following address in order to determine the applied points: risk-gp-core@risk.tsukuba.ac.jp

(4) Flow of the application:

1) The student sends the entire Excel file "Achievement Level Evaluation Materials" as an attachment in an e-mail to the Chair of the Achievement Level Evaluation Committee.

(1) The student sense the entre Level Evaluation Committee checks the contents of the application, then sends a request for approval to the GP Core Mailing List.
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 (4) Before the meeting of the Achievement Level Evaluation Committee is held, the student enters his/her grades for the applicable courses (they will be reflected automatically in the Point Sheet).

Ap	Section Selection		Name	of desire	d item	,	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	7	Date of Appli	cation	Results
plication	Courses of other departm	1	Universa	ıl Enegy l	Resouc	es		1.0	0.5	0.5			pplication	April 23, 2	20xx	А
1	tem number 01CM423	Syllabi Pag 312	Term of course	Time of class	Credits 2	Fotal in Poir 2.0	Appli. Reason:	I think this le specialty.	ecture is deep	ly related wit	h my	Application Divisior 1 st	approved	April 24, 20xx 委員長 承認済	専攻長 承認済	
App	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Ą	Date of Appli	cation	Results
olication	n courses	Intro	oduction	to Risk l	Manag	ement		0.4	0.3	0.3			plication	April 26, 2	20xx	А
2	tem number 01ZZ008	Syllabi Pag	Term of course	Time of class ensive course	Credits 1	Fotal in Poir 1.0	Appli. Reason:	I want to lease engineering.	rn the fundan	entals of risk	Σ.	Application Division	approved	April 27, 20xx 承認済	専攻長 承認済	
Ap	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	4	Date of Appli	cation	Results
plication	Courses of other departm	Α	Advanced R	l Course ecognitic	of Patt on	ern		1.0	0.5	0.5			Application	April 26, 2	20xx	В
3	tem number	Syllabi Pag	Term of course	Time of class	Credits	Fotal in Poir	Appli. Reason:	I think this le specialty.	ecture is deep	ly related wit	h my	Application Division	approve	April 27, 20xx 麦員長	専攻長 承認済	
7	01CK404	309	Nome	intensive cou		2.0	(1)Major field	(2) Dolotod field	(2) Deal World	(A) Droad Daro	(E)Coluing shil	I SL	рć	本認済 Data of Appli	oction	Beaulto
\ppl	Section Selection		Name	or desire	u nem		(T)wajor neid	(z)Related field	(3)Real World	(4) BIO20 PerS.	(c)solving abil.	OPresentation	App	Date of Appli	cation	Results
ication	Not Selected												lication	14 ±11		Not Selected
4	tem number	Syllabi Pag	Term of course Not Selected	Time of class	Credits	Fotal in Poir 0.0	Appli. Reason:					Application Division	approved	Approve d Date	専攻長 承認済	
Þ	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	4	Date of Appli	cation	Results
pplication	Not Selected							()					Application			Not Selected
5	tem number	Syllabi Pag	Term of course	Time of class	Credits	Fotal in Poir	Appli. Reason:					Application Divisior	appro	Approve 适評 本目長	専攻長	
Ů			Not Selected	l Not Selected		0.0						Not Selected	ved	d Date 承認済	本認符	
App	Section Selection		Name	of desire	d item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Ap	Date of Appli	cation	Results
olicatic	Not Selected												plication			Not Selected
ň				c 1									а	学业		Stretter
6	tem number	Syllabi Pag	l erm of course Not Selected	I Ime of class	Credits	0.0	Appli. Reason:					Application Division Not Selected	pproved	Approve d Date 分員長 承認済	専攻長 承認済	
Ap	Section Selection		Name	of desire	d item	·	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	A	Date of Appli	cation	Results
plicatio	Not Selected												pplication			Not Selected
ר 7	tem number	Syllabi Pag	Term of course	Time of class	Credits	Fotal in Poir	Appli. Reason:		1		I	Application Divisior	appro	Approve 适評 <u> 赤目</u>	専攻長	
'			Not Selected	Not Selected		0.0			-		-	Not Selected	oved	d Date 承認済	承認済	
_	Tota	al Poin	ts of othe	er departn	nents e	tc.	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of	-	On I'
otal	As of	t <mark>1st</mark> A	Comn	nittee	Evalua	lion	0.0	2.68	1.46	1.46	0.0	0.0	de	other partments etc.	ວ	Credits
ы Р	Tota As of	al Poin	ts of othe	er departn	ients e	tc. tion	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of	0	Credite
\ppli	AS 01		Comn	nittee	Lvalua	aon	0.0	0.0	0.0	0.0	0.0	0.0	de	partments etc.	U	Greatis
catior	Total Points of other departments etc. As of 3rd Achievement Level Evaluation			tc. tion	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	T de	otal Credits of other	0	Credits		
1 tc	Tota	al Poin	ts of othe	er departn	nents e	tc.	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	T	otal Credits of		
7 C	As of	f <mark>4th</mark> A	chieveme Comn	ent Level nittee	Evalua	tion	0.0	0.0	0.0	0.0	0.0	0.0	de	other partments etc.	0	Credits

Course Creait Point

Date of Preparation	February 1, 20xx		School Year	M2	Field	Total R	isk Man	agement	Student's Name		XXX	XXXX X	XXX	
Committee Section	4th Committee	aquired credits	(1)Know major	ledge of field	(2) Knov related	vledge of d fields	(3) Knov Real	wledge of World	(4) B Persp	road ective	(5) Ab problem	oility in n solving	(o) Fies ai	entation nd
1st a	Items of this department	7	3.6	;	0.4	48	2.	16	2.	16	0	.0	0	0
Com b	Items of other departments etc.	5	0.0)	2.0	68	1.	46	1.	46	0	.0	0	0
nittee	Total in the 1st Committee (a+b)	12	3.6	;	3.1	16	3.	62	3.62		0	.0	0.0	
e 2nd	Items of this department	11	3.6	;	1.(0	1.	7	2.9		3.0		5.4	
	Items of other departments etc. 0 0.0)	0	- n	0	0	-	0	0	0	0	0
nmitt	Itotal in the 2nd Committee			,)	4	16	5	22	6	52	2	0	5	1
ee 3	(e+h+o)	23	1.2	<u> </u>	4.	2	J.	5Z 6	0.	5Z	3	.0) 	4 0
a g	Items of this department	6	0.0)	3.4	2	1.	0	1	.0	U	.0	U	0
h h	Items of other departments etc.	0	0.0)	0.0	0	0.	0	0	.0	0	.0	0	.0
itee	Total in the 3rd Committee (f+g+h)	29	7.2	2	7.:	36	6.	92	8.	12	3	.0	5.	.4
Corr	Items of this department	6	2.4	ŀ	0.0	0	1.	2	0	.0	1	.8	1.	.8
[™] k	Items of other departments etc.	0	0.0)	0.0	0	0.	0	0	.0	0	.0	0	0
Tot	al (a+b+d+e+q+h+i+k)	35	9.6	3	7.3	36	8.	12	8.1	12	4.	8	7.2	2
	Standard Point		8.0		5 ()	6	0	6 ()	4	0	6 ()
	difference form standard poin	ıt	16	5	2:	36	2	12	2	12	0.5	8	1 1	>
ltors			1.0		(1)	(2)	(3)	(1)	(5)	(6)	0.	-		Der 1
Division	Name of item		number	Credits	Major	(2) Related	Real	Broad	Solving	Presen.	Result (1st Comm.)	Result (2nd Comm.)	Result (3rd Comm.)	Kesult (4th Comm.)
Common	Seminar in Risk Engineering I (till 2010 AY : Seminar in Risk Engine	erina)	01CF001	1	0.5					0.5		Α		
Common	Seminar in Risk Engineering II	3/	01CF002	2	1.0					1.0				Α
Common	Research in Risk Engineering I		01CF011	4	1.5		0.5		1.0	1.0		Α		
Common	Research in Risk Engineering II	240.434	01CF012	4	1.0		1.0		1.5	0.5				Α
Common	Research in Risk Engineering II (till 20 Group Work in Risk Engineering	J10AY)	0105021	6	2.0		1.0	15	1.5	1.5				
Common	Introduction to Risk Engineering		01CF021	1		0.4	0.3	0.3	1.5	5.0	Α			
Common	Fundamentals of Risk Engineering		01CE023	1		0.4	0.3	0.3						
Common	(till 2009AY : Fundamentals of Risk S	ecurity)	0105023	1		0.4	0.5	0.0	0.4					
Common Total Risk	Internship in Risk Engineering		01CF031	2	10		0.3	0.3	0.4		Δ			
Total Risk	Introduction to Soft Computing I		01CF102	2	1.0		0.5	0.5			A			
Total Risk	Seminar in Soft Computing		01CF103	1	0.5		0.25	0.25				Α		
Total Risk	Theory of Stochastic Systems and Its	Application	01CF104	2	1.0		0.5	0.5						
Total Risk	Soft Data Analysis (till 2011 AY)		01CF105	2	1.0		0.5	0.5						
Total Risk	Data Mining Engineering Reliability and Safety of Large-Comple	ex Systems	01CF109	2	1.0		0.5	0.5						
Total Risk	Cognitive Risk Analysis	on o jotomie	01CF107	2	1.0		0.5	0.5			Α			
Total Risk	Integration of Information with Diversi	ty	01CF108	2	1.0		0.5	0.5						
Cyber Risl	Advanced Course in Authentication S	ystems	01CF201	2		1.0	0.5	0.5						
Cyber Risl	Introduction to Modern Information Processing and Commun	nication Network	01CF202	2		1.0	0.5	0.5					Α	
Cyber Risi	Advanced Course in Network Security		01CF203	2		0.5	0.25	0.25						
Cyber Risl	Advanced Course in Network Security	/ 11	01CF205	2		1.0	0.5	0.5						
Dub an Dial	Advanced Course in Cyber Risk	Diatributad	0105006	1		0.5	0.05	0.05						
Syder Risi	Multimedia Systems)	Distributed	010F206	1		0.5	0.25	0.25						
Cyber Risl	Advanced Course on Information Sec	urity	01CF207	2		1.0	0.5	0.5					С	
Jrban Risl	Urban Risk Management		01CF301	2		1.0	0.5	0.5						
Jrban Risi	Urban Structural Systems		01CF302	2		1.0	0.5	0.5						
Jrban Risl	Urban Risk Communication		01CF304	2		1.0	0.5	0.5				В		
Jrban Risl	Urban and Regional Analysis		01CF305	2		1.0	0.5	0.5						
Jrban Risl	Seminar in Urban Risk Analysis		01CF306	2		1.0	0.5	0.5						
nv&Energ	KISK Assessment on Energy Systems		01CF401	2		1.0	0.5	0.5					۸	
Inv&Energ	Advanced Course in Energy Science		01CF402	2		1.0	0.5	0.5					~	
Inv&Energ	Seminar in Risk Analysis and Assessment on Er	ergy Systems	01CF404	1		0.5	0.25	0.25						
nv&Energ	Risk in Process Systems		01CF405	2		1.0	0.5	0.5						
Inv&Energ	Advanced Reliability Engineering		01CF406	2		1.0	0.5	0.5				D		
Common	Topics in Risk Engineering in Master's Program	n (Security)	01CF902	1		0.5	0.25	0.25						
Common	n Topics in Risk Engineering in Master's Program (Remote Sensing) 01CF900 n Topics in Risk Engineering in Waster's Program 01CE00.		01CF903	1		0.5	0.25	0.25						
Common	(Human Factors) Topics in Risk Engineering in Master's Program (Relia	ability and Safet	y) (2010AY)	1		0.5	0.25	0.25						
Common	Topics in Risk Engineering in Master's Program (Methdolog	y of Risk Enginee	ring) (2010AY)	1		0.5	0.25	0.25						
Common	Topics in Risk Engineering in Master's	Program I (2	2009AY)	1		0.5	0.25	0.25						
Common	Topics in Risk Engineering in Master's	Program II ((2009AY)	1	0.5	0.5	0.25	0.25						
Common	Topics in Risk Engineering in Master's	Program III	(∠009AY)	1	0.541		0.25	0.25						

Graph

Student's Name	XXXXXX XXXX	Field	Total Risk Management	Date	Feb. 1, 20xx
-					

	Aquired points as of the 1st Committee													
1st	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem	(6) Presentation and Communication								
mittee	3.6	3.16	3.62	3.62	0.0	0.0								
Ratio	45.0%	63.2%	60.3%	60.3%	0.0%	0.0%								

Aquired points as of the 2nd Committee

2nd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem	(6) Presentation and Communication
mittee	7.2	4.16	5.32	6.52	3.0	5.4
Ratio	90.0%	83.2%	88.7%	108.7%	75.0%	90.0%

Aquired points as of the 3rd Committee

3rd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication
mittee	7.2	7.36	6.92	8.12	3.0	5.4
Ratio	90.0%	147.2%	115.3%	135.3%	75.0%	90.0%

Aquired points as of the 4th Committee

4th Com	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication
mittee	9.6	7.36	8.12	8.12	4.8	7.2
Ratio	120.0%	147.2%	135.3%	135.3%	120.0%	120.0%

Standard Point

	(1)Knowledge of major	(2) Knowledge of	(3) Knowledge of Real	(4) Broad Darapaotivo	(5) Ability in problem	(6) Presentation and
Standard Point	rd field	related fields World		(4) Bload Perspective	solving	Communication
	8.0	5.0	6.0	6.0	4.0	6.0
	010				ne	
Ratio	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



	Point Application Sheet 1 (for Master's Program Students)											
Field	Cyber Risk	School Year	M2	Student's Name	****	Name of the Chair of Achievement Level Evaluation Committee	*****					

(1) To receive credits for common courses of the graduate school, common courses of the faculty, or courses of other faculties, departments, etc., you should submit a "Point Application Sheet." Regarding common courses of the graduate school and courses of other faculties, you should also submit "Credits for Courses of Other Faculties" to Academic Service at the Office of Graduate School of Systems and Information Engineering. (2) Applications for credits in common courses of the graduate school and common courses of the faculty: Please arrange credit applications following the instructions in the attached file "Credits in Common Courses of the Graduate School and the Faculty."

(3) For other types of credits not described above: Consult with the Chair of your Achievement Level Evaluation Committee to determine whether the credits apply to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." After the credits are determined to be applicable to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." please multiply the number of credits by whatever is applicable below and enter the result as applied points.

1) A: fundamental theory in the major field: (a) Major field: 0.5, (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
2) B: fundamental theory in a related field: (b) Related field: (0.5, (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
In cases where it is thought that neither A) "fundamental theory in the major field" nor B) "fundamental theory of a related field" applies, then the Chair should make an inquiry of the Risk Core Group at the following address in order to determine the applied points: risk-gp-core@risk.tsukuba.ac.jp

(4) Flow of the application:

1) The student sends the entire Excel file "Achievement Level Evaluation Materials" as an attachment in an e-mail to the Chair of the Achievement Level Evaluation Committee.

If the subcit statist the curice Level Two anatom matching as an address as an address of the chain of the Calibration Committee Contents of the application, then sends a request for approval to the GP Core Mailing List.
 If the application is approved, the notice from the GP Office and the processed Excel file "Achievement Level Evaluation Committee checks the contents of the application, then sends a request for approval to the GP Core Mailing List.
 Before the meeting of the Achievement Level Evaluation Committee is held, the student enters his/her grades for the applicable courses (they will be reflected automatically in the Point Sheet).

Ap	Section Selection		Nam	e of desir	ed item	1	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	A	Date of Appli	cation	Results
plication	other departmen		Informa (Comp	tion Syste uter Scier	em Des nce Dep	ign o.)		1.0	0.5	0.5			pplication	April 23,	20xx	А
1	tem number 01CH207	iSyllabi F 313	ag Term of cou 2	rseTime of clas	Credits	Fotal in Poir 2.0	Appli. Reason:	It is important speciality	nt to learn abo	out this topic	for my	Application Division	approved	Approve d Date 分子	専攻長 承認済	
App	Section Selection Courses of		Name	e of desir	ed item	1	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Ą	Date of Appli	cation	Results
lication	other departmen ts		Secu (Comp	urity Meel uter Scien	nanism nce Dep	o.)	1.0		0.5	0.5			plication	April 26, 2	20xx	В
2	tem number 01CH208	ßyllabi F 313	agiTerm of cou 2	rseTime of clas	es Credits	Fotal in Poir 2.0	Appli. Reason:	It is strongly	related to my	/ speciality		Application Division	approved	Approve d Date 本認済	専攻長 承認済	
Ap	Section Selection	1	Name	e of desir	ed item	l	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Þ	Date of Appli	cation	Results
plication	courses of the graduate	E	thics for	Engineer	s in Bus	siness		0.8	0.6	0.6			pplication	April 26,	20xx	А
~	tem number	6yllabi F	ageTerm of cou	rseTime of clas	s Credits	Fotal in Poir	Appli. Reason:	To be engine	eer who can f	eedback to so	ciety in	Application Division	app	Approve 造評	車攻長	
3	01ZZ102	90	1	ensive cour	e 2	2.0		leaning ethic	cs			3rd	rove	d Date	承認済	
⊳	Section Selection		Nam	a of desir	ed item	2.0	(1)Major field	(2)Related field	(3)Real World	(4)Broad Porc	(5)Solving abil	(6)Presentation	2	Date of Appli	cation	Resulte
ldd	Section Selection		Naille	e or desir	eu iteili					(+) biodu reis.	(Joonning abil.	(OF TESEIIId(1011	App		cation	Results
ication	Not Selected												dication	14-57		Not Selected
4	tem number	i Syllabi F	ageTerm of cou	rseTime of clas	s Credits	Fotal in Poir	Appli. Reason:					Application Division	prod	Approve	専攻長	
-			Not Select	ed Not Selecte	d	0.0						Not Selected	ved	d Date 承認済	本認済	
Ap	Section Selection		Nam	e of desir	ed item	l	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Þ	Date of Appli	cation	Results
plication	Not Selected												pplication			Not Selected
_	tem number	6yllabi F	ag Term of cou	rseTime of clas	s Credits	Fotal in Poir	Appli. Reason:					Application Division	app	Approve 達評	直攻長	
5			Not Select	ed Not Selecte	d	0.0						Not Selected	rovec	d Date	承認済	
⊳	Section Selection		Nam	e of desir	ed item	0.0	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers	(5)Solving abil	(6)Presentation		Date of Appli	cation	Results
ldd			Nam			1	(I)Major neia		(o)rical world	(4)Diodu 1 013.	(o)oonning abii.	(o) resentation	App	Dute of Apple	oution	Results
icatior	Not Selected												lication			Not Selected
_	tom numbor	Svllabi F	aruTerm of oou	red Time of close	e Cradita	Fotal in Poir	Appli Passon	I	I	I		Application Division	a	達評	where when the state	
6	lem number	рупарт Р	age entri of cou	isernine of clas			Appli. Reason:					Application Divisio	oprov	Approve d Date	専攻長	
	500%08		Not Select	ed Not Selecte	d	0.0						Not Selected	éd	承認済	小哈伊	
App	Selection		Name	e of desir	ed item		(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	A	Date of Appli	cation	Results
olica	Not	1											oplica			Not
ation	Selected												tion			Selected
7	tem number	isyllabi F	ag Term of cou	rseTime of clas	s Credits	Fotal in Poir	Appli. Reason:					Application Division	appro	Approve 注評	専攻長	
'			Not Select	ed Not Selecte	d	0.0						Not Selected	oved	d Date 承認済	承認済	
	Tota	al Po	ints of oth	ner depart	ments e	tc.	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of		
Total	As of	of 1st	Achieven Corr	nent Level nmittee	Evalua	tion	1.0	1.2	1.1	1.1	0.0	0.0	de	other epartments etc.	4	Credits
⊒.	Tota	al Po	ints of oth	ner depart	ments e	tc.	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of		
Appl	As of	f 2nd	Achieven Com	nent Leve Imittee	Evalua	ition	0.0	0.0	0.0	0.0	0.0	0.0	de	other epartments etc.	0	Credits
i C B	Tota	al Po	ints of oth	ner depart	ments e	tc.	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of		
tion 1	As of	f 3rd	Achieven Corr	nent Level Imittee	Evalua	tion	0.0	0.96	0.72	0.72	0.0	0.0	de	other epartments etc.	2	Credits
t	Tota	al Po	nts of oth	ner depart	ments e	tc.	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Т	otal Credits of		
7 0	As of	f 4th	Achieven Corr	nent Level Imittee	Evalua	tion	0.0	0.0	0.0	0.0	0.0	0.0	de	other epartments etc.	0	Credits

Course Creait Point

Date of Preparation	February 1st, 20xx		School Year	M2	Field	(yber Ris	sk	Student's Name		**	**** ***	**	
Committee Section	4th Committee	aquired credits	(1)Knowl major	edge of field	(2) Know related	vledge of I fields	(3) Knov Real	wledge of World	(4) B Persp	road ective	(5) Ab problem	oility in n solving	(0) Fless ar	id nicotion
1st a	Items of this department	5.0)	4.	52	4.	94	4.	94	0	.0	0.	0	
Com b	Items of other departments etc.	4	1.0)	1.2	2	1.1		1.1		0.0		0.	0
mitte	Total in the 1st Committee (a+b)	23	60)	5	72	6	04	6	04	0	0	0	0
e 2n	Items of this department	10	2.0	1	0.0	2	1	26	2	26	2	1Q	4	0
	items of this department	10	2.4	•	0.0	<u> </u>	1.	30	Z.,	20	<u> </u>	10	4.	0
e e	Items of other departments etc.	0	0.0)	0.0)	0.	0	0	.0	0	.0	0.	0
f		33	8.4		6.	52	7.	4	8	.3	3.	18	4.	8
g 3rd	Items of this department	0	0.0)	0.0	D	0.	0	0	.0	0	.0	0.	0
Com h	Items of other departments etc.	2	0.0)	0.9	96	0.	72	0.	72	0	.0	0.	0
mitte	Total in the 3rd Committee (f+a+b)	35	84	1	7.	18	8	12	9	02	3	18	4	8
	Items of this department	0	0.4		0.0	10 N	0.	0	0.	02	0.	0		0
4th		0	0.0		0.0		0.	0	0	.0	0	.0	0.	0
¥ K	Items of other departments etc.	0	0.0)	0.0)	0.	0	0	.0	0	.0	0.	0
Tot	al (a+b+d+e+g+h+j+k)	35	8.4	ļ	7.4	48	8.	12	9.0)2	3.1	18	4.8	8
	Standard Point		8.0)	5.0)	6.	0	6.0)	4.()	6.0)
	difference form standard poir	nt	0.4		2.4	48	2.	12	3.0)2	-0.	82	-1.3	20
Item Division	Name of item		Item	Credits	(1)	(2) Deleted	(3)	(4)	(5)	(6)	Result	Result	Result	Result
Common	Seminar in Risk Engineering I			1		Related	Real	ыраа	Solving	0.5	(TSI Comm.)	(2110 Comm.)	(Sid Comm.)	en comm)
Common	(till 2010 AY : Seminar in Risk Engine	eering)			0.0					0.0		A		
Common	Seminar in Risk Engineering II		01CF002	2	1.0		0.5		10	1.0		٨		
Common	Research in Risk Engineering I		01CF012	4	1.5		1.0		1.0	0.5		A		
Common	Research in Risk Engineering II (till 2	010AY)	0101012	6	2.0		1.0		1.5	1.5				
Common	Group Work in Risk Engineering		01CF021	2	-		-	1.5	1.5	3.0		В		
Common	Introduction to Risk Engineering		01CF022	1		0.4	0.3	0.3			В			
Common	Fundamentals of Risk Engineering (till 2009AY : Fundamentals of Risk S	01CF023	1		0.4	0.3	0.3			С				
Common	Internship in Risk Engineering	• /	01CF031	1			0.3	0.3	0.4			Α		
Total Risk	Introduction to Soft Computing I		01CF101	2		1.0	0.5	0.5			В			
Total Risk	Introduction to Soft Computing II		01CF102	2		1.0	0.5	0.5			В			
Total Risk	Seminar in Soft Computing	Annlingtion	01CF103	1		0.5	0.25	0.25						
Total Risk	Soft Data Analysis (till 2011 AY)	Application	01CF104	2		1.0	0.5	0.5			U U			
Total Risk	Data Mining Engineering		01CF109	2		1.0	0.5	0.5						
Total Risk	Reliability and Safety of Large-Compl	lex Systems	01CF106	2		1.0	0.5	0.5						
Total Risk	Cognitive Risk Analysis		01CF107	2		1.0	0.5	0.5						
Total Risk	Integration of Information with Diversi	ity	01CF108	2	4.0	1.0	0.5	0.5						
Cyber Risk	Advanced Course in Authentication S	ystems	01CF201	2	1.0		0.5	0.5			A			
Cyber Risk	Advanced Modern Information Processing and Commun	nication Network	01CF202	1	0.5		0.5	0.5			A			
Cyber Risk	Advanced Course in Network Security	y I	01CF204	2	1.0		0.5	0.5	<u> </u>					
Cyber Risł	Advanced Course in Network Securit	y II	01CF205	2	1.0		0.5	0.5			В			
Cyber Risł	Advanced Course in Cyber Risk (till 2009 AY : Advanced Course in	Distributed	01CF206	1	0.5		0.25	0.25			Α			
Dub D' - I	Multimedia Systems)	ourity (0105007		4.0		05	05			В			
Jrban Risk	Auvanceu Course on information Sec	Junity	01CF207	2	1.0	10	0.5	0.5			В			
Jrban Risk	Risk in Urban Systems		01CF302	2		1.0	0.5	0.5						
Jrban Risk	Urban Structural Systems		01CF303	2		1.0	0.5	0.5						
Jrban Risk	Urban Risk Communication		01CF304	2		1.0	0.5	0.5				С		
Jrban Risk	Urban and Regional Analysis		01CF305	2		1.0	0.5	0.5	<u> </u>					
Jrban Risk	Seminar in Urban Risk Analysis		01CF306	2		1.0	0.5	0.5						
nv&Energ	Risk Assessment on Energy Systems		01CF401	2		1.0	0.5	0.5			B			
nv&Energ	Lecture on Advanced Energy Theory Advanced Course in Energy Science		01CF403	2		1.0	0.5	0.5				D		
nv&Energ	Seminar in Risk Analysis and Assessment on Energy Systems		01CF404	1		0.5	0.25	0.25						
nv&Energ	Risk in Process Systems	ss Systems		2		1.0	0.5	0.5						
nv&Energ	Advanced Reliability Engineering	ed Reliability Engineering		2		1.0	0.5	0.5						
Common	Topics in Risk Engineering in Master's Progra	01CF902	1		0.5	0.25	0.25							
Common	TOPICS IN KISK Engineering in Master's Program (Rem TOPICS IN KISK Engineering in Waster's	01CF903	1		0.5	0.25	0.25							
Common	(Human Factors) Topics in Risk Engineering in Master's Program (Relia	ability and Safet	y) (2010AY)	1		0.5	0.25	0.25						
Common	Topics in Risk Engineering in Master's Program (Methdolog	y of Risk Engineer	ring) (2010AY)	1		0.5	0.25	0.25	† – – –					
Common	Topics in Risk Engineering in Master's	Program I (2	2009AY)	1		0.5	0.25	0.25						
Common	Topics in Risk Engineering in Master's	Program II ((2009AY)	1	0.5		0.25	0.25						
Common	Topics in Risk Engineering in Master's	Program III	(2009AY)	1	44	0.5	0.25	0.25						
Common	LLODICS IN KISK Engineering in Master's	Program IV	(2009AY)	1		115	111.75	11125	1	1				

Graph

Student's Name	*****	Field	Cyber Risk	Date	Feb. 1st, 20xx

	Aquired points as of the 1st Committee											
1et	(1)Knowledge	(2) Knowledge	(3) Knowledge	(4) Broad	(5) Ability in	(6) Presentation						
Com	of major field	of related fields	of Real World	Perspective	solving	Communication						
mittee	6.0	5.72	6.04	6.04	0.0	0.0						
Ratio	75.0%	114.4%	100.7%	100.7%	0.0%	0.0%						

Aquired points as of the 2nd Committee

2nd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem	(6) Presentation and Communication
mittee	8.4	6.52	7.4	8.3	3.18	4.8
Ratio	105.0%	130.4%	123.3%	138.3%	79.5%	80.0%

Aquired points as of the 3rd Committee

3rd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication
mittee	8.4	7.48	8.12	9.02	3.18	4.8
Ratio	105.0%	149.6%	135.3%	150.3%	79.5%	80.0%

Aquired points as of the 4th Committee

4th	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication
mittee	8.4	7.48	8.12	9.02	3.18	4.8
Ratio	105.0%	149.6%	135.3%	150.3%	79.5%	80.0%

Standard Point

Standard Point	(1)Knowledge of major field	(2) Knowledge of related fields (3) Knowledge of Real World ((4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication
	8.0	5.0	6.0	6.0	4.0	6.0
Ratio	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



	Point Application Sheet 1 (for Master's Program Students)									
Field	Urban Risk	School Year	M2	Student's Name	•• ••	Name of the Chair of Achievement Level Evaluation Committee	00 00			

(1) To receive credits for common courses of the graduate school, common courses of the faculty, or courses of other faculties, departments, etc., you should submit a "Point Application Short". Regarding common courses of the graduate school and courses of other faculties, you should also submit "Credits for Courses of Other Faculties" to Academic Service at the Office of Graduate School of Systems and Information Engineering. (2) Applications for credits in common courses of the graduate school and common courses of the faculty: Please arrange credit applications following the instructions in the attached file "Credits in Common Courses of the Graduate School and the Faculty."

(3) For other types of credits not described above: Consult with the Chair of your Achievement Level Evaluation Committee to determine whether the credits apply to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." After the credits are determined to be applicable to either A) "fundamental theory in the major field" or B) "fundamental theory of a related field." please multiply the number of credits by whatever is applicable below and enter the result as applied points.

1) A: fundamental theory in the major field: (a) Major field: 0.5, (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
2) B: fundamental theory in a related field: (b) Related field: (c) (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
2) B: fundamental theory in a related field: (b) Related field: (c) (c) Understanding of real world problems: 0.25, (d) Ability to approach problems from a broad perspective: 0.25
In cases where it is thought that neither A) "fundamental theory in the major field" nor B) "fundamental theory of a related field" applies, then the Chair should make an inquiry of the Risk Core Group at the following address in order to determine the applied points: risk-gp-core@risk.tsukuba.ac.jp

(4) Flow of the application:

1) The student sends the entire Excel file "Achievement Level Evaluation Materials" as an attachment in an e-mail to the Chair of the Achievement Level Evaluation Committee.

a) The Student series are think Exect the Achievement Level Evaluation Committee checks the contents of the Achievement Level Evaluation Committee checks the contents of the Application, then sends a request for approval to the GP Core Mailing List.
 a) If the application is approved, the notice from the GP Office and the processed Excel file "Achievement Level Evaluation Committee checks the contents of the Achievement Level Evaluation Committee checks the contents of the Achievement Level Evaluation Committee checks the contents of the Achievement Level Evaluation Committee checks the contents of the Application Materials" are sent by e-mail. If approval has been denied, then the application must be resubmitted.
 4) Before the meeting of the Achievement Level Evaluation Committee is held, the student enters his/her grades for the applicable courses (they will be reflected automatically in the Point Sheet).

ð	Section Selection	Name of desired item	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Þ	Date of Application	Results
plication	other departmen	Spatial Information Science (Dept. of Social System Engineering)		1.0	0.5	0.5			pplication	April 23, 20xx	В
1	tem number 01CB321	Syllabi Page Term of course Time of class Credits Total in Poin P287 1 tensive c 2 2.0	Appli. Reason:	I think this le speciality.	ecture is deep	ly related wit	h my	Application Division	approved	Approve d Date 	
Ap	Section Selection	Name of desired item	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Þ	Date of Application	Results
plicatior	Courses of other departmen	Special Lecture in Urban Planning I (Dept. of Social System Engineering)		0.5	0.25	0.25			pplication	April 26, 20xx	А
2	ts tem number 01CB437	syllabi Pagferm of courseTime of class Credits Fotal in Poir	Appli. Reason:	I think this le speciality.	ecture is deep	ly related wit	h my	Application Division	approved	Approve d Date 使型波波 译字 委員長 承認済	
⊳	Section Selection	Name of desired item	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers	(5)Solving abil	(6)Presentation	4	Date of Application	Results
pplication	Courses of other departmen ts	Special Lecture in Urban Planning II (Dept. of Social System Engineering)		0.5	0.25	0.25	(0)0011119 0211		Application	April 27, 20xx	A
3	tem number 01CB438	Syllabi Pag Term of course Time of class Credits Total in Poir P288 pt Selectensive cou 1 1.0	Appli. Reason:	I think this le speciality.	ecture is deep	ly related wit	h my	Application Divisior 3rd	approved	Approve d Date d Date 支員長 承認済	
Þ	Section Selection	Name of desired item	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation		Date of Application	Results
oplication	Courses of other departmen ts	Special Lecture in MPP IV (Dept. of Business and Policy Science)		0.5	0.25	0.25			Application	April 27, 20xx	А
4	tem number 01CD274	syllabi PageTerm of courseTime of class Credits Total in Poin P294 1 ensive course 1 1.0	Appli. Reason:	I think this le speciality.	ecture is deep	ly related wit	h my	Application Division 3rd	approved	Approve d Date 	
Ap	Section Selection	Name of desired item	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	A	Date of Application	Results
plication	Com. courses of the	Scientific Writing in English- Practice						1.0	pplication	April 27, 20xx	С
5	tem number 01ZZ017	Syllabi PagFerm of course Time of class Credits Fotal in Poir — 1 ensive course 1 1.0	Appli. Reason:	I want to gai	n an understa	nding of Eng	lish writing.	Application Division 3rd	approved	Approve d Date d Date 量 承認済	
Þ	Section Selection	Name of desired item	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation		Date of Application	Results
oplication	Not Selected								Application		Not Selected
6	tem numbei	Syllabi PageTerm of courseTime of class Credits Total in Poin Not Selected Not Selected 0.0	Appli. Reason:					Application Divisior Not Selected	approved	Approve d Date []] 達評 委員長 承認済	
Ap	Section Selection	Name of desired item	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	Þ	Date of Application	Results
plication	Not Selected								pplication		Not Selected
7	tem numbe	Syllabi Pag Term of course Time of class Credits Total in Point Not Selected Not Selected 0.0	Appli. Reason:					Application Division	approved	Approve d Date 意員長 承認済	
	Tet	al Points of other departments at	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers	(5)Solving abil	(6)Presentation	т	otal Credits of	
Total	As o	f 1st Achievement Level Evaluation Committee	0.0	1.6	0.8	0.8	0.0	0.0	de	other 3	Credits
in Ap	Tota As of	al Points of other departments etc. 2nd Achievement Level Evaluation	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	T	otal Credits of other 0	Credits
plic		Commutee	0.0	5.5	0.0	0.0	0.0	5.5	ue	partments etc.	
ation '	Tot: As o	al Points of other departments etc. f <mark>3rd</mark> Achievement Level Evaluation Committee	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	T de	otal Credits of other 3 partments etc.	Credits
1 to 7	Tota As o	al Points of other departments etc. f 4th Achievement Level Evaluation Committee	(1)Major field	(2)Related field	(3)Real World	(4)Broad Pers.	(5)Solving abil.	(6)Presentation	T de	otal Credits of other 0 partments etc.	Credits

Course oreare round	Course	Credit	Point
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Date Prepar	e of ration	February 1, 20xx		School Year	M2	Field	τ	Jrban Ri	sk	Student's Name			•• ••)	
Comm Sectio	nittee n	4th Committee	aquired credits	(1)Know major	ledge of field	(2) Knov related	vledge of d fields	(3) Kno Real	wledge of World	(4) E Persp	lroad ective	(5) Ab problem	oility in n solving	(0) Fies ar	entation nd
1st (а	Items of this department	15	3.4	Ļ	4.	56	4.	22	4.	22	0	.0	0.	.0
Comr	b	Items of other departments etc.	3	0.0)	1.0	6	0.	8	0	.8	0	.0	0.	.0
nittee	С	Total in the 1st Committee (a+b)	18	3.4	L .	6.	16	5.	02	5.	02	0	.0	0	.0
e 2no	d	Items of this department	11	4.6	<u> </u>	0.0	0	1	7	2	9	3	0	5	4
d Co	u		0	4.0	, \	0.0	0	0	<u>,</u>	-	<u></u>	0	0	0	<u>, </u>
mmit	e	I total in the 2nd Committee	0	0.0	<u>,</u>	0.0		0.		-	.0	0	.0	0.	.0
tee	t	(c+d+o)	29	8.0)	6.	16	6.	72	1.	92	3	.0	5.	.4
3rd C	g	Items of this department	0	0.0)	0.0	0	0.	0	0	.0	0	.0	0.	.0
òmn	h	Items of other departments etc.	3	0.0)	1.	2	0.	6	0	.6	0	.0	0.	.8
nittee	i	Total in the 3rd Committee (f+g+h)	32	8.0)	7.3	36	7.	32	8.	52	3	.0	6	.2
C.	i.	Items of this department	6	2.4	L	0.0	0	1.	2	0	.0	1	.8	1.	.8
4th	ן ר	Itoms of other departments ato	0	0.0	<u> </u>	0.0	- N	0		0	0	0	0	0	0
+	R	items of other departments etc.	0	0.0	,	0.0	0	0.		U	.0	0	.0	U.	.0
	lota	al (a+b+d+e+g+h+j+k)	38	10.	4	7.	36	8.	52	8.	52	4.	8	8.0)
		Standard Point		8.0)	5.0)	6.	0	6.0)	4.0	0	6.0)
L		difference form standard poir	nt	2.4	ļ	2.3	36	2.	52	2.	52	0.0	8	2.0)
Ite	m	Name of item		Item	Credits	(1)	(2)	(3)	(4)	(5)	(6)	Result	Result	Result	Result
Com	mon	Seminar in Risk Engineering I			1	Major	Related	Real	Broad	Solving	Presen.	(1st Comm.)	(2nd Comm.)	(3rd Comm.)	(ath Comm.)
00111	mon	(till 2010 AY : Seminar in Risk Engine	ering)	0101001	1	0.5					0.5		^		
Com	mon	Seminar in Risk Engineering I		01CF002	2	1.0		0.5		10	1.0				A
Com	mon	Research in Risk Engineering I		01CF011	4	1.5		1.0		1.0	0.5		~		Δ
Com	mon	Research in Risk Engineering II (till 2	010AY)		6	2.0		1.0		1.5	1.5				~
Com	mon	Group Work in Risk Engineering		01CF021	2				1.5	1.5	3.0		Α		
Com	mon	n Introduction to Risk Engineering		01CF022	1		0.4	0.3	0.3			Α			
Com	mon	Fundamentals of Risk Engineering (till 2009AY - Fundamentals of Risk Security)		01CF023	1		0.4	0.3	0.3			Α			
Com	mon	Internship in Risk Engineering		01CF031	1			0.3	0.3	0.4					
Total	Risk	sk Introduction to Soft Computing I		01CF101	2		1.0	0.5	0.5			Α			
Total	Risk	sk Introduction to Soft Computing II		01CF102	2		1.0	0.5	0.5						
Total	Risk	Seminar in Soft Computing		01CF103	1		0.5	0.25	0.25						
Total Total	Risk	Theory of Stochastic Systems and Its Soft Data Analysis (till 2011 AX)	Application	01CF104	2		1.0	0.5	0.5			D			
Total	Risk	Data Mining Engineering		01CF103	2		1.0	0.5	0.5						
Total	Risk	Reliability and Safety of Large-Compl	ex Systems	01CF106	2		1.0	0.5	0.5						
Total	Risk	Cognitive Risk Analysis		01CF107	2		1.0	0.5	0.5			В			
Total	Risk	Integration of Information with Diversi	ty	01CF108	2		1.0	0.5	0.5						
Cyber	Risk	Advanced Course in Authentication S	ystems	01CF201	2		1.0	0.5	0.5			C			
Cyber	· Risk	Introduction to Modern Information Processing and Commu	ication Network	01CF202	2 1		1.0	0.5	0.5						
Cyber	Risk	Advanced Course in Network Security	y I	01CF204	2		1.0	0.23	0.23						
Cyber	· Risł	Advanced Course in Network Security	y II	01CF205	2		1.0	0.5	0.5						
D I	. D:-I	Advanced Course in Cyber Risk	Distributed	0105006	1		0.5	0.05	0.25						
Jyber	TUSP	Multimedia Systems)		0107200			0.0	0.20	0.20						
Cyber	Risk	Advanced Course on Information Sec	urity	01CF207	2		1.0	0.5	0.5	<u> </u>					
Jrban	Risk	Urban Risk Management		01CF301	2	1.0		0.5	0.5			A			
Jrban Jrban		Urban Structural Systems		01CF302	2	1.0		0.5	0.5			A			
Jrban	Risk	is Urban Structural Systems 01 is Urban Risk Communication 01		01CF304	2	1.0		0.5	0.5				A		
Jrban	Risk	Rist Urban and Regional Analysis 010		01CF305	2	1.0		0.5	0.5			В			
Jrban	Risk	Risk Seminar in Urban Risk Analysis 01CF3		01CF306	2	1.0		0.5	0.5				В		
inv&E	nerg	erg Risk Assessment on Energy Systems 01CF4		01CF401	2		1.0	0.5	0.5						
Inv&E	nerg	erg Advanced Course in Energy Science 01CF40		01CF402	2		1.0	0.5	0.5						
inv&E	nerg	erg Seminar in Risk Analysis and Assessment on Energy Systems 01CF403		01CF403	2		0.5	0.5	0.5						
inv&E	nerg	rg Risk in Process Systems 01CF405		2		1.0	0.5	0.5							
inv&E	nerg	erg Advanced Reliability Engineering 01CF406		2		1.0	0.5	0.5							
Com	mon	Topics in Risk Engineering in Master's Progra	m (Security)	01CF902	1		0.5	0.25	0.25						
Com	Topics in Risk Engineering in Master's Program (Remote Sensing) 01CF903		1		0.5	0.25	0.25								
Com	Interior in Pick Engineering III Master's Program 01CF904		1		0.5	0.25	0.25								
Com	mon	יטויט וח אואג Engineering in Master's Program (Relia	y of Risk Engineer	y) (∠U1UAY) ring) (2010AY)	1		0.5	0.25	0.25						
Com	mon	Topics in Risk Engineering in Master's	Program I (2009AY)	1		0.5	0.25	0.25			A			
Com	mon	Topics in Risk Engineering in Master's	Program II (, (2009AY)	1		0.5	0.25	0.25	1					
Com	mon	Topics in Risk Engineering in Master's	Program III	(2009AY)	1	47	0.5	0.25	0.25						
Com	mon	Topics in Risk Engineering in Master's	Program IV	(2009AY)	1		05	0 25	0.25		I –				

Graph

	Aquired points as of the 1st Committee										
1st Com mittee	(1)Knowledge (2) Knowledge of major field of related fields		(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem	(6) Presentation and Communication					
	3.4	6.16	5.02	5.02	0.0	0.0					
Ratio	42 5%	123 2%	83 7%	83 7%	0.0%	0.0%					

Aquired points as of the 2nd Committee

2nd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication
Com mittee	8.0	6.16	6.72	7.92	3.0	5.4
Ratio	100.0%	123.2%	112.0%	132.0%	75.0%	90.0%

Aquired points as of the 3rd Committee

3rd	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem solving	(6) Presentation and Communication	
mittee	8.0	7.36	7.32	8.52	3.0	6.2	
Ratio	100.0%	147.2%	122.0%	142.0%	75.0%	103.3%	

Aquired points as of the 4th Committee

4th	(1)Knowledge of major field	(2) Knowledge of related fields	(3) Knowledge of Real World	(4) Broad Perspective	(5) Ability in problem	(6) Presentation and Communication	
mittee	10.4	7.36	8.52	8.52	4.8	8.0	
Ratio	130.0%	147.2%	142.0%	142.0%	120.0%	133.3%	

Standard Point

Standard	(1)Knowledge of major field	(2) Knowledge of related fields	2) Knowledge of (3) Knowledge of Real related fields World		(5) Ability in problem solving	(6) Presentation and Communication
Point	8.0	5.0	6.0	6.0	4.0	6.0
Ratio	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



6 Basic philosophy of the Student Achievement Assessment System

Arrangement for the Student Achievement Assessment in the Master's Program

1. Implementation and approval of the student achievement assessment with the Student Achievement Assessment Committee

1) The Student Achievement Assessment Committee

In order to assess the student achievement, a Student Achievement Assessment Committee is organized by the department for each student.

2) Implementing and approving the achievement assessment

The Student Achievement Assessment is done by the Student Achievement Assessment Committee, and is approved by the chair of the Department.

3) Committee members

Each Student Achievement Assessment Committee comprises a chair of the committee and other 2 or 3 committee members.

2. The role of the student achievement assessment in completing the program

The achievement assessment is treated as part of the final examination that is given in conjunction with the Master's thesis defense. In order to pass the final examination, in most cases it is necessary to have an affirmative result for all items of the achievement assessment.

3. Decision for approval or disapproval of the student achievement at the final examination

The decision for approval or disapproval will be made, by the department, based on the evaluation results of the written self-assessment described in clause 4.

4. Department's evaluation of student's self-assessment of the achievement

 The self-assessment of achievements is a report written by the students themselves to describe their academic achievements that may not be measured by coursework alone. Within the written selfassessment, a study plan based on subject points (see clause 5 below) must be undertaken while referring to the number of acquired course points. In addition, it is necessary to provide the following two types of academic evidence to support the academic status:-

- (a) Academic materials created during the course of academic work, such as study notes, research reports, paper manuscripts, and so on.
- (b) Student portfolio that summarizes the student's academic status for each month.
- 2) In order for students to pass the final examination, all qualification items in the self-assessment sheet have attained the level for "completing the Master's program", and they must be approved by the Student Achievement Assessment Committee.

5. Course Credit points

As explained below, it is advisable to acquire the standard number of points for each student's achievement's attributes by taking common courses and major courses. Points are calculated based on the "Table of Corresponding Points for Course Assessment Items" listed in Appendix d. However, the point table can be modified if the Achievement Assessment Committee approves.

1) Points for major courses

For each major course, the number of credits is equivalent to the total number of points, and the points are assigned to one or more student achievement assessment's attributes. The assignment of points is determined by the major department as it considers the status of each field and research group. A's are given a point score of 1.2, B's are given a score of 1, and C's are given a score of 0.8.

2) Points for common courses

In most cases, points for shared courses are set according to Appendix d. A's are given a point score of 1.2, B's are given a score of 1, and C's are given a score of 0.8.

- 3) Standard points for each qualification item
 It would be advisable to acquire the following total points for major and shared courses:(a) Knowledge of fundamental theory in the major field, 8 points
 (b) Knowledge of fundamental theory of related fields, 5 points
 (c) Understanding of real world problems, 6 points
 (d) Ability in recognizing problems from a broad perspective, 6 points
 (e) Ability in problem solving from objectives to solutions, 4 points
 (f) Presentation and communication skills 6 points
- Points for common graduate courses, common courses for Graduate School of Systems and Information Engineering, other Graduate School courses, other major department courses, special lectures, etc.

For courses not listed in Appendices c and d, the point weighting is the same as for major courses, that is, the number of credits = the total number of points, and grades of A, B and C are given point scores of 1.2, 1.0, and 0.8, respectively. However, assigning the points to student's achievement attributes is done after consulting with the academic supervisor(s). A written explanation for the reason to change the assignment should be submitted to the chair of the major department through the Achievement

Assessment Committee. If it is approved by the chair of the department, then those acquired course credits can be calculated and assigned as points for qualification items.

6. Additional Subject Assigned by Student Achievement Assessment Committee to Fulfil the Minimum Criteria of Student Achievement Assessment

Before the final examination, a number of achievement assessments are made within the period specified by the Department. For students who appear that they will not reach their department's level of achievement before the final examination due to problems with the required courses and/or the self-assessments, the Achievement Assessment Committee can assign additional subjects through the academic supervisor. The student then can complete and submit the additional subject(s), etc., to get an improved assessment and have his/her assessment points increased.

7. Special points in the achievement assessment

For some students who have exceptional results, the academic advisor can send an application to the Achievement Assessment Committee for additional points. If accepted, an additional number of points for the achievement assessment can be awarded by the chair of the Department.

8. Other Utilization of Student Achievement Assessment Point

The points acquired from the achievement assessment can be used for student recognition awards and so on.

9. This arrangement will apply to students who enter the program in the 2008 academic year and later.

10. The modification of this arrangement is subject to the approval by the department of Risk Engineering.

Arrangement for the Student Achievement Assessment in the Doctoral Program

1. Implementation and Approval of the student achievement assessment with the Achievement Assessment Committee

- The Achievement Assessment Committee
 In order to assess the student achievement, a Student Achievement Assessment Committee is
 organized by the department for each student.
- Implementation and Approval of the student achievement assessment The Student Achievement Assessment is done by the Student Achievement Assessment Committee, and is approved by the chair of the Department.
- Committee members
 Each Student Achievement Assessment Committee consists of the chair of the committee and other 2 or 3 committee members.

2. The role of the achievement assessment in completing the program

The achievement assessment is treated as part of the final examination that is given in conjunction with the doctor's thesis defense. In order to pass the final examination, in most cases it is necessary to have an affirmative result for all items of the achievement assessment.

3. Decision for approval or disapproval of the student achievement at the final examination

The decision for approval or disapproval will be made, by the department, based on the evaluation results of the written self-assessment described in clause 4.

4. Department's evaluation of student's self-assessment of the achievement

- The self-assessment of achievements is a report written by the students themselves to describe their academic achievements that may not be measured by coursework alone. In addition, it is necessary to provide the following two types of academic evidence to support the academic status:-
 - (a) Academic materials created during the course of academic work, such as study notes, research reports, paper manuscripts, and so on.

- (b) Student portfolio that summarizes the student's academic status for each month. (Global COE students are exempt from creating this portfolio.)
- 2) In order for students to pass the final examination, all qualification items in the self-assessment sheet have attained the level for "completing the Doctoral program", and they must be approved by the Student Achievement Assessment Committee.

5. Additional Subject Assigned by Student Achievement Assessment Committee to Fulfil the Minimum Criteria of Student Achievement Assessment

Before the final examination, a number of achievement assessments are made within the period specified by the Department. For students who appear that they will not reach their department's level of achievement before the final examination due to problems with the required courses and/or the self-assessments, the Achievement Assessment Committee can assign additional subjects through the academic supervisor. The student then can complete and submit the additional subject(s), etc., to get an improved assessment and have his/her assessment points increased.

6. Use of the student's achievement assessment

The student's achievement assessment can be used for student recognition awards and so on.

7. The Department's achievement assessment for students in the early completion program

The achievement of students in the early completion program is evaluated within the framework specified by the program. The assessment done in the early completion program and the regular assessment done in the department are compatible to each other.

8. This arrangement will apply to students who enter the program in the 2008 academic year and later.

9. The modification of this arrangement is subject to the approval by the department of Risk Engineering.

Student Achievement Assessment Standards for Self-Assessment

1. Master's program achievement assessment for the written self-assessment

When acquired the courses points, students should make a comprehensive self-assessment of each of the qualification items using the contents of their study programs and academic evidence. Students can also include the contents of their studies that they have done on their own. The standards of achievements for reaching the level for completing the Master's program are as follows:-

- 1) Evidence exists of academic work for each course.
- 2) An appropriate study plan for obtaining enough courses points has been undertaken. This should be clearly shown by comparing acquired course points and required course points in the written self-assessment.

Please note that for each qualification item, it is advisable to make a total assessment of related items, even if the courses are different.

2. Doctoral program achievement assessment for the written self-assessment

The standards for determining whether or not the level of achievement is at the level for completing the Doctoral program differs depending on the qualification item.

1) For scientific research results:

The standard shall be based on fulfilling the number of publicly released papers determined as a standard for writing the Doctoral dissertation.

- For knowledge of fundamental theory in the major field: The standard shall be based on fulfilling the number of publicly released papers and acquiring the theoretical base for that purpose.
- 3) For knowledge of fundamental theory of related fields:

For one or more acquired course credits for the applicable item or, mainly the Research in Risk Engineering in the Doctoral program and the Advanced Seminar of Risk Engineering in the Doctoral program, a description shall be made based on the applicable academic evidence. If an applicable course has not been taken, then the equivalent of one or more credits of study time is required.

- 4) For the ability in recognizing problems from a broad perspective, ability in problem solving from objectives to solutions, and understanding of real-world problems: The standards are the same as in 3) above
- 5) For presentation and communication skills:

The standard is based on one or more acquired course credits for the applicable item. Alternatively, if there is an equivalent consisting of at least 3 research presentations in a 3-year period, the standard is based on discussion in the course of Research in Risk Engineering in the Doctoral program, etc.

- 6) For ability to contribute to international professional societies in the major field: The standard is based on at least 3 presentations made in a 3-year period in a foreign language, or the equivalent in international experience.
- 7) For 3) 5) above, the student can include experience as a TA or RA, assisting with group work, and experience providing assistance to students in a research laboratory.

Educational Goals and Method of Study in the Department of Risk Engineering

1. Educational Goals

As the information networks and other vast systems of today become more widespread, they will wield greater influence and pose new challenges to our security. The aim of the department of Risk Engineering is to provide an environment that prepares students with the high level technical expertise and ability necessary to use an engineering-based approach to identify risks and so play a valuable role in society.

Our overall goal is to prepare the students with the knowledge and skills required to either lead or participate in all stages of a project from the initial identification of risk problems through the processes necessary to find a concrete solution. They will acquire the basic theory of risk analysis, assessment, and related information-processing technology. In addition, they will develop strong leadership abilities as their knowledge grows, and their perspective widens.

With these **educational goals** in mind, the Department of Risk Engineering will provide students with an in-depth understanding of:

- a. The basic theory of risk analysis and assessment.
- b. Information processing technology related to risk analysis and assessment.
- c. The problem areas related to risk engineering.
- d. The subject of risk engineering from a broad perspective.
- e. The processes involved in solving risk problems from setting to solution.
- f. The shared roles within a research project and the leadership abilities necessary to oversee such a project

With the aim to educate the talented person as a person who can play an active part in the real world, basic theory and skills will be thought in the Master's Program. For the students in the doctoral program, high level theories and skills will be taught for items c. to f. The doctoral program also aims to polish the talented person not only as a highly regarded researcher or good engineer at international level but also as a person who is superior in presentation and communication skills.

2. Learning structure for achieving the educational goals

The educational goals of the Department of Risk Engineering entail the above 6 items. In the Master's program, the qualitative attributes of student's competencies or student's achievement that will be assessed for qualification of the degree are:-

- A. Knowledge of fundamental/basic theory in the major field
- B. Knowledge of fundamental/basic theory of related fields
- C. Understanding of real world problems
- D. Ability in recognizing problems from a broad perspective
- E. Ability in problem solving from objectives to solutions
- F. Presentation and communication skills.

The Department's educational goals and the student achievement's assessment items are different elements/processes of the department's education system but related to each other. The following is an explanation of how both the goals and the achievement items can be achieved simultaneously within the curriculum. In order to understand the relationship, an overview of the major field and related fields would be useful.

1) Achieving Educational Goals a, c and d

Major field

In general, a major field refers to the field to which the student's supervisor(s) belongs. The Department of Risk Engineering has four fields: "Total Risk Management", "Cyber Risk", "Urban Risk", and "Environmental and Energy Risk."

Obtaining at least 8 credits from his or her main field in conjunction with Risk Engineering Research I and II in the Master's program will fulfil the requirements for the educational goal a, "*Knowledge of basic theory for analyzing and assessing risk*," and the student achievement item A, "*Knowledge of fundamental/basic theory in the major field*." In addition, because the core subjects in the major field include the aspects of C, "*Understanding of real world problems*," and D, "*Ability in recognizing problems from a broad perspective*," of the achievement items, the subjects also cover c, "*The problem areas related to risk engineering*," and d, "*The subjects of risk engineering from a broad perspective*," in the educational goals of the Risk Engineering Department.

Related fields

The remaining three fields other than the major field are the "related fields." Each student must obtain 8 units from the related fields. This will allow the student to simultaneously acquire B, "*Knowledge of fundamental/basic theory of related fields*", "*C. Understanding of real world problems*," and D, "*Ability in recognizing problems from a broad perspective*," of the achievement items by learning

about the problems and its' solution in the related fields. This also fulfils items c and d in the educational goals.

As a means to acquire units in related fields, for example, if a student's major field is "Total Risk Management," he or she could select subjects from mostly "Cyber Risk" or take courses from the related three fields in equal proportion. The first selection of related field subject emphasizes the acquisition of "*Knowledge of fundamental/basic theory of related fields*" while the latter selection emphasize "*Ability in recognizing problems from a broad perspective.*"

It should be noted that while it is possible to take some general university courses and courses for other majors in place of some related fields, the student should have a clear idea of how these courses are related to the student's achievement assessment attribute and educational goals of his or her major and be able to explain how such courses are relevant.

2) Achieving Educational Goals b, e and f

In order to achieve the educational goal b, "*Information processing technology related to risk analysis and assessment*", it is necessary to complete Risk Engineering Research I and II in the Master's program. Secondly, as noted in the syllabi, it is possible to further enhance these courses through lecture courses, for example in the field of Cyber Risk.

Educational goal e, "*The ability processes involved in solving risk problems from setting to solution*," is closely related to student achievement assessment attribute E, "*The ability in problem solving from objectives to solution*." Therefore, requirements include not only the Research in Risk Engineering I and II in master's program, but also the Group Work in Risk Engineering.

Regarding educational goal f, "*The shared roles within a research project and the leadership abilities necessary to oversee such a project*," it is very important for a student to be involved in and contribute to the Group Work in Risk Engineering.

As we have seen, if you follow a standard curriculum, the items brought up in the educational goals and the 6 student achievement assessment attributes are covered at the same time.

3) Talent profiles of engineer in each major field

In each major field, the talent profiles of engineers trained in the related fields are shown below.

Major-field: Total Risk Management

Cyber risk	An engineer who is capable of totally managing and controlling risks of a system by learning the basic theoretical systems concerning risks, such as uncertainty theories, e.g. probability theory, data analysis and system reliability technology based on statistical methods, as well as human risk perception and decision making. As the related fields, the engineer also has deep interest in information processing technologies which are the basement for information and network security, and risk analysis and assessment.
Environmental & Energy System Risk	An engineer who is capable of totally managing and controlling risks of a system by learning the basic theoretical systems concerning risks, such as uncertainty theories, e.g. probability theory, data analysis and system reliability technology based on statistical methods, as well as human risk perception and decision making. As the related fields, the engineer also has deep interest in regional environmental pollution and global-scale environmental problems or risk analysis and assessment technologies for energy systems.
Urban Risk	An engineer who is capable of totally managing and controlling risks of a system by learning the basic theoretical systems concerning risks, such as uncertainty theories, e.g. probability theory, data analysis and system reliability technology based on statistical methods, as well as human risk perception and decision making. As the related fields, the engineer also has deep interest in totally management and control of risks that exist in urban areas, such as natural disasters (earthquakes, typhoons, and floods), fires, accidents, and crime.
Wide Selection of Each Field	An engineer who is capable of totally managing and controlling risks of a system by learning the basic theoretical systems concerning risks, such as uncertainty theories, e.g. probability theory, data analysis and system reliability technology based on statistical methods, as well as human risk perception and decision making. The engineer also has wider interest in related fields such as cyber risks, urban risks, and environment and energy system risks.

Major-field: Cyber Risk Management

Total risk	An engineer who is capable of working out countermeasures from the standpoint of information processing technologies such as information security by learning broad theoretical systems concerning cyber risks, e.g., information and network security and modern information theories which include them. As related fields, the engineer also has a deep interest in basic theoretical systems concerning risks, such as the uncertainty theories, e.g., probability theory, data analysis and system reliability technologies based on statistical methods, and human risk perception and decision making theories.
Environmental & Energy System Risk	An engineer who is capable of working out countermeasures from the standpoint of information processing technologies such as information security by learning broad theoretical systems concerning cyber risks, e.g., information and network security and modern information theories which include them. As related fields, the engineer also has a deep interest in regional environmental pollution and global-scale environmental problems or risk analysis and assessment technologies for energy systems.
Urban Risk	An engineer who is capable of working out countermeasures from the standpoint of information processing technologies such as information security by learning broad theoretical systems concerning cyber risks, e.g., information and network security and modern information theories which include them. As related fields, the engineer also has a deep interest in comprehensive management and control technologies for risks that exist in urban areas, such as natural disasters (earthquakes, typhoons, and floods), fires, accidents, and crime.
Wide Selection of Each Field	An engineer who is capable of working out countermeasures from the standpoint of information processing technologies such as information security by learning broad theoretical systems concerning cyber risks, e.g., information and network security and modern information theories which include them. The engineer also has wider interest in related fields such as total risk management, environment and energy system risks, and urban and disaster risks.

Major-field: Environmental and Energy System Risk Management

Total risk	An engineer who is capable of totally managing and controlling supply risks for energy systems, and environmental risks, such as global warming and air and water pollution, by learning environment and energy engineering which systematize the problems of environment and energy systems from the standpoint of resources, technology, and economics. As the related fields, the engineer also has deep interest in basic theoretical systems concerning risks, such as uncertainty theories, e.g., probability theories, data analysis and system reliability technology based on statistical methods, and human risk perception and decision making theories.
Cyber risk	An engineer who is capable of totally managing and controlling supply risks for energy systems, and environmental risks, such as global warming and air and water pollution, by learning environment and energy engineering which systematize the problems of environment and energy systems from the standpoint of resources, technology, and economics.
	As the related fields, the engineer also has deep interest in information processing technologies which are the basements for information and network security, and risk analyses and assessment.
Urban Risk	An engineer who is capable of totally managing and controlling supply risks for energy systems, and environmental risks, such as global warming and air and water pollution, by learning environment and energy engineering which systematize the problems of environment and energy systems from the standpoint of resources, technology, and economics. As the related fields, the engineer also has deep interest in totally management and control of risks that exist in urban areas, such as natural disasters (earthquakes, typhoons, and floods), fires, accidents, and crime.
Wide Selection of Each Field	An engineer who is capable of totally managing and controlling supply risks for energy systems, and environmental risks, such as global warming and air and water pollution, by learning environment and energy engineering which systematize the problems of environment and energy systems from the standpoint of resources, technology, and economics. The engineer also has wider interest in related fields such as total risk management, cyber risks, and urban risks, etc.

Major-field: Urban Risk Management

Total risk	An engineer who is capable of totally managing and controlling the risks that exist in urban areas, such as natural disasters (earthquakes, typhoons, floods), fires, accidents, and crime, based on planning theories etc. which consider analysis method for urban spatial structures, and risk concept (i.e., perception, assessment, analysis, and communication of urban risks). As the related fields, the engineer also has deep interest in basic theoretical systems concerning risks, such as uncertainty theories, e.g., probability theory, data analysis and system reliability technology based on statistical methods, and human risk perception and decision making.
Cyber risk	An engineer who is capable of totally managing and controlling the risks that exist in urban areas, such as natural disasters (earthquakes, typhoons, floods), fires, accidents, and crime, based on planning theories etc. which consider analysis method for urban spatial structures, and risk concept (i.e., perception, assessment, analysis, and communication of urban risks). As the related fields, the engineer also has deep interest in information processing technologies which are the basement for information and network security, and risk analyses and assessment.
Environmental & Energy System Risk	An engineer who is capable of totally managing and controlling the risks that exist in urban areas, such as natural disasters (earthquakes, typhoons, floods), fires, accidents, and crime, based on planning theories etc. which consider analysis method for urban spatial structures, and risk concept (i.e., perception, assessment, analysis, and communication of urban risks). As the related fields, the engineer also has deep interest in regional environmental pollution, global-scale environmental problems, and risk analysis and assessment technologies for energy systems.
Wide Selection of Each Field	An engineer who is capable of totally managing and controlling the risks that exist in urban areas, such as natural disasters (earthquakes, typhoons, floods), fires, accidents, and crime, based on planning theories etc. which consider analysis method for urban spatial structures, and risk concept (i.e., perception, assessment, analysis, and communication of urban risks). The engineer also has wider interest in related fields such as total risk management, cyber risk, environment and energy system risks, etc.

Student Achievement Assessment System for Master's Program Students

1. Purpose of the student achievement assessment.

In the Department of Risk Engineering, "student achievement assessment" based on the Department's educational goals has been implemented from 2008. The achievement assessment system involves assessments of the educational processes that simultaneously meet the educational goals of our major and the general educational targets as a graduate student (the 6 attributes). To everyone who is entering the Master's program, we hope that this explanation will help in understanding the achievement assessment system and that the achievement assessment system is helpful to check his or her study progress.

2. Role of the student achievement assessment for completion of the course

The graduate school requires students to pass the final exam in order for the students to obtain the master's degree. For the Risk Engineering Major students, the final examination includes being certified by the Department that "the student has achieved at or above the level needed to complete the program for all qualification assessment items." Document 3 gives a basic arrangement for the achievement assessment. Thus, to complete the program, the following three conditions shall be fulfilled:

- 1) Acquiring the required number of course credits.
- 2) Completing the thesis and passing the thesis defense.
- 3) All students' achievement assessment items have reached the level needed to complete the program.

3. The student achievement assessment

The Student Achievement Assessment is done based on a written self-assessment of all achievements (see Documents 1 and 5). The written self-assessment is the student's own report of his or her academic achievements that may not be completely measured with only coursework. The report should be written to portray the student's academic status in the best light. Assessments are made a total of 4 times: end of the second semester in the first year, end of the first year, end of the second semester in the second year. Samples of written self-assessments of achievements are provided as shown Appendix d. Please ask your academic advisor for guidance.

4. Academic evidence and course points

There are two main pillars which support the written self-assessment of all achievements: (1) The Academic Evidence - which forms the backbone of the self-assessment, and (2) The Course's Credit Points - which provide a quantitative means of assessing whether or not each student's achievement attributes has been fulfilled.

- 1) There are two types of academic evidences which form the backbone of the self-assessment.
 - a) Academic materials that the student had created during the program.

For example, the notes that were taken for Research in Risk Engineering in the Master's program, Group Work in Risk Engineering, internship, etc., research notes for lab seminars, paper manuscripts prepared for academic conferences, meetings, and so on. When necessary, please refer to these materials with writing self-assessments. Since you may be required to submit these materials to provide firm support for your self-assessment, you should save them.

b) Monthly student portfolio.

This is a summary of the student's monthly activities and performance. A sample is provided in Appendix a. Since the portfolio is compiled monthly, students will use them as a reference when preparing their self-assessments.

2) Course Credit points acquired from completing a course.

The required course credit points differ depending on the field, so please refer to the table for the requirement of your field in Appendix d. You should study the table following the curriculum model and arrange your academic schedule so that you will acquire a good balance of points by acquiring the required credit units. The academic study plan will be formulated based on these course points. It will be necessary to refer to the acquired course points to provide information about the progress of your academic study plan within the written self-assessment.

5. Special note

It may appear that making the self-assessment is a complicated matter. Once you grow accustomed to it, however, it can be done in a short period of time, and you will begin to feel that it has many advantages for checking your academic progress. If you have any questions, please feel free to consult not only with your supervisors, but also with the core teaching assistants (TAs). The core TAs who are in the PhD program are particularly experienced because they created such materials in previous years, so they will be happy to give you kind advice. These materials should be submitted through a TA.

6. Advice window

If problems cannot be resolved by consulting with a supervisor or TA, then please consult with one of the following advice windows:

- 1) Professors in charge of the improvement of the graduate school educational system (Prof. Sadaaki Miyamoto, and Dr. Yasunori Endo)
- 2) Chair of the Department of Risk Engineering

7. The applicability of the achievement assessment system

The achievement assessment system shall be applied to students who have entered the Master program in the 2008 academic year or later.

8. The achievement assessment for students who entered the program before the 2007 academic year (for reference)

Students who entered the program before the 2007 academic year do not have to undergo the achievement assessment during the final exam. In this way, the achievement assessment is not a requirement for completing the program. However, it is hoped that new students understand the above purposes, and will prepare and submit self-assessments of their achievements.

Student Achievement Assessment System for Doctoral Program Students

1. Purpose of the student achievement assessment

In the Department of Risk Engineering, "student achievement assessment" based on the Department's educational goals has been implemented from 2008. The achievement assessment system involves assessments of the educational processes that simultaneously meet the educational goals of the major and the general educational targets of the graduate student (the 8 attributes). To everyone who is entering the Doctoral program, we hope that this explanation will help in understanding the achievement assessment system and that the achievement assessment system is helpful to check his or her study progress.

2. Role of the student achievement assessment for completion of the course

The graduate school requires students to pass the final exam in order for the students to obtain the master's degree. For the Risk Engineering Major students, the final examination includes being certified by the Department that "the student has achieved at or above the level needed to complete the program for all qualification assessment items." Document 4 gives a basic arrangement for the achievement assessment. Thus, to complete the program, the following three conditions shall be fulfilled:

- 1) Acquiring the required number of course credits
- 2) Completing the Doctoral dissertation and passing the dissertation defense
- 3) All students' achievement assessment items have reached the level needed to complete the program

3. The student achievement assessment

As is noted in Documents 4 and 5, there is no consideration of "the points acquired from credits." The qualifications are done by professors' assessment based on the student's self-assessment. Reasons for this are that the number of credits to be acquired is relatively small, and that achievement proceeds mainly within the academic research. The written self-assessment is a report that students make themselves about the status of their academic achievements that may not be measured with coursework alone. Students should write the self-assessment so that it portrays their achievements in the best light. Written self-assessments are submitted twice per academic year: at the end of the second semester, and at the end of the academic year (please see the samples in Appendix e). Please ask your academic supervisor(s) for assistance.

4. Academic evidence

Academic evidence supports the written self-assessment. There are two types of academic evidence:-

1) Academic Materials created during the course of study.

For example, study notes taken for the Research in Risk Engineering in the Doctoral program, Advanced Seminar in Risk Engineering in the Doctoral program, Doctoral Project Research, etc. research reports for laboratory seminars, paper manuscripts prepared for seminars, conferences, etc. When necessary, please refer to these materials with writing self-assessments. Since you may be required to submit these materials to provide firm support for your self-assessment, you should save them.

2) Monthly student portfolio.

This is a summary of the student's monthly performance. A sample is provided in Appendix b. Students should use this portfolio as a reference when preparing their self-assessments.

5. Special note

It may appear that making the self-assessment is a complicated matter. Once you grow accustomed to it, however, it can be done in a short period of time, and you will begin to feel that it has many advantages for checking your academic progress. If you have any questions, please feel free to consult not only with your supervisors, but also with the core teaching assistants (TAs). The core TAs who are in the PhD program are particularly experienced because they created such materials in previous years, so they will be happy to give you kind advice. These materials should be submitted through a TA.

6. Advice window

If problems cannot be resolved by consulting with a supervisor or TA, then please consult with one of the following advice windows:

- 1) Professors in charge of the improvement of the graduate school educational system (Prof. Sadaaki Miyamoto, and Dr. Yasunori Endo)
- 2) Chair of the Department of Risk Engineering

7. For students in the early completion program

The achievement of students in the early completion program is evaluated within the framework specified by the program. The assessment done in the early completion program and the regular assessment done in the department are compatible to each other. In most cases, the students are not required to prepare two sets of materials.

8. For students in the Global COE program

Since students in the Global COE program tend to have heavy duties, the students are exempt from creating a student portfolio. However, they are required to write self-assessments of their achievements and submit academic evidences. In this case, academic evidence would include materials made for the works in the Global COE program.

9. The application of the achievement assessment system

The achievement assessment system shall apply to students who entered the doctoral program in the 2008 academic year or later.

10. The achievement assessment for students who entered the program before the 2007 academic year (for reference)

Students who entered the program before the 2007 academic year do not have to undergo the achievement assessment during the final exam. In this way, the achievement assessment is not a requirement for completing the program. However, it is hoped that new students understand the above purposes, will prepare and submit self-assessments of their achievements.