- 1. Course Code 2295
- 2. Course Title

M3e:Requirement Analysis and Design Exercises

3. Teacher

HIRAISHI, Teruhiko

4. Term

Fall 2

5. Course Requirements (Courses / Knowledge prerequisite for this course)

Requirement Analysis and Design (achievement of target level is required)

6. Course Overview and Objectives

This course intends students to acquire the practical ability of knowledge and technique on "Requirement Analysis" and "Architectures Design" by practicing through playing rolls of acquirer and supplier.

Each member belongs to a team, and the team will play the rolls both acquirer and supplier in the class.

7. Course Outline

- 1 Orientation
- 2 Determining the theme
- 3 Determine the issue to be solved
- 4 Requirement analysis
- 5 Determine the issue to be solved
- 6 Requirement analysis
- 7 Requirement analysis
- 8 Architecture design/Requirement analysis
- 9 Requirement analysis
- 10 Architecture design/Requirement analysis
- 11 Requirement Analysis
- 12 Architecture design/Requirement analysis
- 13 Architecture design
- 14 Architecture design
- 15 Prepare for final presentation
- 16 Final presentation/Finl report
- 8. Textbooks (Required Books for this course)

None.

9. Reference Books (optional books for further study)

None.

10. Course Goals (Attainment Targets)

- (1) To be able to determine the theme of the requirements as an acquirer.
- (2) To be able to develop RFP(Request for Proposal) as an acquirer.
- (3) To be able to develop the requirement definition documents as a supplier.
- (4) To be able to the system architecture documents as a supplier.
- (5)
- (6)
- (7)
- (8)

11. Correspondence relationship between Educational goals and Course goals

E	Course Goals		
High level ICT	Basic academic skills		
skills	Specialized knowledge	(1) , (2), (3), (4)	
Human skill (Tankyu skill)	Ability to continually improve own strengths		(1) , (2), (3), (4)
	Ability to discover and	Problem setting	(1)
	resolve the problem in society	r typothesis planning	(1),(2),(3)
		Hypothesis testing	(2),(3)
		Practice	(3),(4)
	Fundamental	Ability to step forward	(1),(2),(3),(4)
	Competencies for	Ability to think through	(1),(2),(3)
	Working Persons	Ability to work in a team	(1),(2),(3),(4)
Professional			

12. Evaluation

Goals	Evaluation method & point allocation					
	examination	Quiz	Reports	Presentation	Deliverables	Other
(1)			0	0	0	
(2)			0	0	0	
(3)			0	0	0	
(4)			0	0	0	
(5)						
(6)						
(7)						
(8)			20	40	20	
Allocation			30	40	30	
13. Evaluation Criteria						
Examination						
Quiz						
Reports	Confirm the	t ctudonte i	understand	the content	of the locco	n hv
	Confirm that students understand the content of the lesson by					
	describing problems and solutions based on the knowledge and					
	skills acquired in the lesson and their own thoughts.					
Presentation	For each section, students make presentation of the progress of					
	each team.					
	This presentation is evaluated by lecturer and other teams, not the					
	correctness but easiness and presentation manner.					
			ss and pres			

Deliv	As a supplier (developer), the acquirer team and the lecturer evaluate whether the developed work products meets the needs of customers and is effective.		
Othe	er		
14. /	Active Learn	ing	
Hou	rly percenta	ge of active learning within the whole class time	100%
1		ning such as problem solving assignment using the and skills acquired in class.	All the time
2	Active lear	ning such as group works and discussions.	All the time
3	Outcome p	resentations and feedbacks.	All the time
4	Students actively make decisions on how the class should be All the tim conducted.		All the time

15. Notes

This course intends to acquire practical ability by playing both acquirer and supplier roles as project teams. Through the team discussion and project management, this course intends to improve not only the students' technological skills, but also facilitation, negotiation, and presentation skills.

16. Course plan

(Notice) This plan is tentative, and might be changed at the time of delivery

Lesson '	1:	Orientation
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lecture&practice,90min

Comprehend the outline of the course.

(1) Orientation

- (2) Flow of the development processes
- (3) What is the architecture?

(4) Presentation

Lesson 2: Determining the themes

lecture&practice,90min

As an acquirer, summarize the isuue to be solved to the document

(1)Read case study

- (2)Read RFP(request for proposal)
- (3)Establish issue to be solved
- (4)Summarize the issue to the document

As a acquirerer, analyze stakeholders, and identify the issues, and purpose of the system

(1)Select issue to be solve in each team.

Lesson 3: Determine the issues to be solved

(2)Develop case study8sttory)

(3) Develop RFP(Request for Proposal)

(4) Prepare memo for Supplier's questions.

Lesson 4:Requirement analysis

As a supplier, proceed requirement definition.

(1)Structuring stakeholders

(2)Presentation

Lesson 5: Determine the issues to be solved

As a acquirerer, analyze stakeholders, and identify the issues, and purpose of the system

(1)Select issue to be solve in each team.

(2)Develop case study(sttory)

(3)Develop RFP(Request for Proposal)

(4)Prepare memo for Supplier's questions.

Lesson 6:Requirement analysis

As a supplier, proceed requirement definition.

(1)Requirement organization

(3)Fascilitation & negotiation

(3)Requirement definitioon

(4)Presentation

Lesson 7: Requirement analysis

According to the RFP from acquirer, proceed requirement analysis as a supplier(developer).

(1)Requirement Organization (2)Requirement Definitioon practice,90 min

lecture&practice,90min

lecture&practice,90min

practice,90min

Lesson 8: Architecture design/Requirement analysis

study the basis of architecture design

- (1) Outline of model
- (2) Typical models
- (3) Functional block diagram
- (4) Use case diagram
- (5) Presentation

Lesson 9:Requirement analysis

According to the requirements from acquirer, proceed requirement analysis as a supplier(developer).

(1)Stakeholder Analysis (2)Requirement Organization (3)Requirement Definitioon

Lesson 10: Architecture design/Requirement analysis

lecture&practice90 min

According to the acquirerer's request, develop architecture documents

(1)Class diagram (2)Make Development plan (3)Presentation

Lesson 11:Requirement analysis

According to the requirements from acquirer, proceed requirement analysis as a supplier(developer).

(1)Stakeholder Analysis (2)Requirement Organization (3)Requirement Definitioon

Lesson 12: Architecture design/Requirement analysis

Architecture design

(1)Architecture design based on the typical models (2)Presentation

practice,90min

practice,90min

practice,90min

Lesson 13:Architecture design

practice,90min

Architecture design

(1)Architecture design based on the typical models

Lesson 14:Architecture design

Architecture design

(1)Architecture design based on the typical models(2)Presentation

Lesson 15: Prepare for final presentation

Prepare for final presentation

(1)Prepare for presentation for all activities and deliverables in this exercise

Lesson 16: Final presentation/Final report

practice,90min

practice,90min

Final presentation

(1) Present to all activities and outcomes in all of this exercise

(2) Explanation of final report

practice,90min