

1. Course Title (Course Code)

Project Management (2231)

2. Instructor

Chika Yoshida

3. Term

Spring 1

4. Outline and Objectives

The purpose of this course is to give students an understanding of Project Management (PM) concepts including Project Knowledge Body of Knowledge (PMBok) through lecture, discussion. It applies practical case study on “Pasta Bridge Constriction Project” as group exercise as a project work. Students will be able to learn how to deliver projects on time and under budget with high quality. They will also learn the importance of communication on team. The course will be run via lectures, interactive group discussion, and “Pasta Bridge Constriction” as a project work.

5. Goals (Attainment Targets)

The primary aim of this course is to make students understand the principal of Project Management and each body of knowledge. Students are also learn how to execute and manage project through an actual project of “Pasta Bridge Constriction as a project leader or the member. It acquaint students to gain 'professional skills as Project Managers who are able to take active leadership roles in achieving project outcomes.

- (1). Able to explain the Project Management Body of Knowledge as a base of Project Management.
- (2). Able to make Work Break down Structures and schedule with PART/CPM to start the project.
- (3). Able to explain Earned Value Management for project planning and execution.
- (4). Able to explain Project Risks and way of management.
- (5). Able to explain Project Contract Variation.
- (6). Able to execute an actual Project work as a member or the leader to understand roles of PM.

6. Correspondence relationship between Educational goals and Course goals

Educational goals			Course goals
High level ICT skill	Basic academic skills		(1), (2), (6)
	Specialized knowledge and literacy		(3), (4), (5)
Human skill (Tankyu skill)	Ability to continually improve own strengths		(1), (2), (6)
	Ability to discover and resolve the problem in society	Problem setting	(3), (4), (5), (6)
		Hypothesis planning	(3), (4), (5), (6)
		Hypothesis testing	(3), (4), (5), (6)
		Practice	(6)
	Fundamental Competencies for Working Persons	Ability to step forward	(6)
		Ability to think through	(2), (3), (4), (5), (6)
		Ability to work in a team	(6)
Professional ethics			(4), (5), (6)

7. Course Requirements

None.

8. Textbooks

None.

9. Reference Books

- Software Project Management For Dummies by Teresa Luckey and Joseph Phillips
- AMA Handbook of Project Management by Paul c. Dinsmore, Jeannette Cabanis-Brewin
- A Guide to Project Management Body of Knowledge (PMBOK Guide)

10. Evaluation

Goals	Evaluation method & point					
	term-end exam	quiz	report	presentation	deliverable	other
(1)				○	○	
(2)				○	○	
(3)				○	○	
(4)				○	○	
(5)				○	○	
(6)				○	○	
Allocation				60	40	

11. Notes

The lecture contents will be listed on Moodle and exercise material will be provided to you in the class.

Course Schedule

(Notice) This schedule is a tentative plan; there might be changes, additions, and revisions etc. at the time of delivering the course.

Lesson 1-2: Introduction to Project Management

(Lecture, 90min. Exercise, 90 min.)

Explanation of Course logistics and overview of Project Management with WBS

- Course Orientation.
- What a project is?
- Characteristics of Project.
- Execute Project Successfully.
- Basic Process of Software Development Project.
- Group project description (Pasta Bridge)
- What is Work Breakdown Structures
- Group Exercise (WBS)

Lesson 3-4: Planning Project

(Lecture, 90min. Exercise, 90 min.)

To learn about Project Time Estimation

- Project Scheduling
- How to make Network Diagram
- Using PERT for Estimation
- Calculate with CPM
- Group Exercise (PERT/CPM)

Lesson 5-6: Controlling Project

(Lecture, 90min. Exercise, 90 min.)

To learn how to use Earned Value Management in Project

- What is Earned Valued Management
- EVM Procedure for Project Progress Management
- Words and meaning for EVM (PV/AC/EV/SPI/CPI/ETC/EAC/VAC)
- Group Exercise (EVM)

Lesson 7-8: Project Risk Management

(Lecture, 90min. Exercise, 90 min.)

To learn how to manage Risk on Project:

- Risk Standard Awareness
- Risk Management Process
- Risk Identification Tool / Technique
- Risk Analysis
- Risk Response Planning
- Level of Risk Management
- Group Exercise (Risk Response)

Lesson 9-10: Group Work for Intermediate Report and Presentation

(Exercise, 90 min. Presentation, 90 min.)

To learn how to make Planning Report for project through the Group work and the presentation.

Group Exercise Required Contents:

- Work Breakdown Structures,
- Schedule (PERT CPM Chart /Network Diagram / Gantt chart)
- Resource assignment Plan
- Cost Estimation
- Risk Management Plan

Lesson 11-12: Project Contract Management

(Lecture, 90min. Exercise, 90 min.)

To learn various kind of project contract and the purpose.

- Variation of Project Contract and the differences.
- A case of Oresund Project by Fixed Price Award Fee (FPAF)
- A case of Cost Reimbursement
- Federal Acquisition Regulation (FAR)
- Project contract type in Japan
- Group Exercise (Project Contract)

Lesson 13-14: Project vs. Organization / Human Resource Management

(Lecture, 90min. Exercise, 90 min.)

To learn how to improve project quality by teaming.

- Types of Project Team
- Autonomous Project Team
- Wisdom of Team
- Agile Project Management
- Autonomous Project team
- Group Exercise (Command Control type vs. Autonomous type)

Lesson 15: Final Presentation of Pasta Bridge Project / Summary

(Presentation, 60 min. Lecture, 30 min)

To confirm understanding and assessment

Group Presentation Required Contents:

- Result of EVM
- Design Concept of the Pasta Bridge
- Specification of Pasta Bridge summary and Result,
- Actual cost and the return plan
- Group Comments what you gain through the project
- Course Summary