Tamkang University Academic Year 105, 2nd Semester Course Syllabus

Course Title	SIX SIGMA MANAGEMENT	Instructor	HSU-HUA LEE
Course Class	TLGXD1A DOCTORAL PROGRAM, DEPARTMENT OF MANAGEMENT SCIENCES, 1A	Details	SelectiveOne Semester3 Credits

Departmental Aim of Education

- I . Become proficient at Management Sciences skills.
- II. Learn about self-development and personal growth.
- ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$. Make connections between theory and practice.
- IV. Enhance team cooperation and communication.
- V. Cultivate analytical and decision making skills.
- VI. Value the sustainable operation of organizations.

Departmental core competences

- A. Decision-making analysis ability.
- B. Statistical analysis ability.
- C. Finance and economics analysis ability.
- D. Organizational business management ability.
- E. Teamwork ability.
- F. Self-management ability.
- G. Ethics application ability.

	Course Introduction	To learn the practice and the research about Six Sigma Management using the approach of DMAIC
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The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

P6-Origination

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation,

(iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

	Teaching Objectives		Relevance	
No			Departmental core competences	
1	To learn the practice and the research about Six Sigma Management		АВ	
	using the approach of DMAIC			

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To learn the practice and the research about Six Sigma Management using the approach of DMAIC	Lecture, Discussion, Practicum, Visit, Problem solving, Speech	Practicum, Report, Participation

	Essential	Qualities of TKU Students	Descrip	tion
		pective	Helping students develop a broader perspective from which to understand international affairs and global development.	
\Diamond	Information li	teracy	Becoming adept at using information technology and learning the proper way to process information.	
◆ A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.	
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
•	Independent :	thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
\Diamond	A cheerful atti	itude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
△ A spirit of teamwork and dedication		mwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.	
♦ A sense of aesthetic appreciation		sthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.	
			Course Schedule	
Week	Date	5	Subject/Topics	Note
1	106/02/13 ~ 106/02/19	Introduction to six sigma ma	anagement	
2	106/02/20 ~ 106/02/26	DMAIC definition		
3	106/02/27 ~ 106/03/05	Define phase (1) VOC		
4	106/03/06 ~ 106/03/12	Define phase (2) QFD		
5	106/03/13 ~ 106/03/19	Define phase (3) Kano Mode	Define phase (3) Kano Model	
6	106/03/20 ~ 106/03/26	Measure phase (1) FMEA		
7	106/03/27 ~ 106/04/02	Measure phase (2) C&E Matrix		
8	106/04/03 ~ 106/04/09	Measure phase (3) Measurement		
9	106/04/10 ~ 106/04/16	Define and Measure Study		
10	106/04/17 ~ 106/04/23	Midterm Exam Week		
	106/04/24 ~ 106/04/30	Analyze phase (1) basic analysis		
11		Analyze phase (2) Analysis method		

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13	106/05/08 ~ 106/05/14	Improve phase (1)/ join the conference in May held by	
		Department of Management Sciences	
14 106/05/15 ~ 106/05/21		Improve phase (2)	
15 106/05/22 ~ Col		Control phase	
16 106/05/29 ~ 106/06/04		Invite for Speech	
17	106/06/05 ~ 106/06/11	Outgoing teaching by joining the conference or visiting company/ field trip	
18	18 106/06/12 ~ Final exam week 106/06/18 Final exam week		
Re	quirement	Pay attention to attendance, attention, and assignment	
Teaching Facility		Computer	
Textbook(s)		Quality management, six sigma management	
Reference(s)		Six sigma management related papers and books	
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		 ↑ Attendance: 15.0 %	
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.	

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