

Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	SIX SIGMA MANAGEMENT	Instructor	HSU-HUA LEE
Course Class	TLGXD1A DOCTORAL PROGRAM, DEPARTMENT OF MANAGEMENT SCIENCES, 1A	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	SDG4 Quality education		
Departmental Aim of Education			
<ul style="list-style-type: none"> I. Become proficient at Management Sciences skills. II. Learn about self-development and personal growth. III. 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. 			
Subject Departmental core competences			
<ul style="list-style-type: none"> A. Decision-making analysis ability.(ratio:50.00) B. Statistical analysis ability.(ratio:50.00) 			
Subject Schoolwide essential virtues			
<ul style="list-style-type: none"> 1. A global perspective. (ratio:50.00) 2. Information literacy. (ratio:50.00) 			
Course Introduction	To learn the practice and the research about Six Sigma Management using the approach of DMAIC		

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	To learn the practice and the research about Six Sigma Management using the approach of DMAIC	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	AB	12	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written), Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	110/09/22 ~ 110/09/28	Introduction to six sigma management	
2	110/09/29 ~ 110/10/05	DMAIC definition	
3	110/10/06 ~ 110/10/12	Define phase (1) VOC	
4	110/10/13 ~ 110/10/19	Define phase (2) QFD	
5	110/10/20 ~ 110/10/26	Define phase (3) Kano Model	
6	110/10/27 ~ 110/11/02	Measure phase (1) FMEA	
7	110/11/03 ~ 110/11/09	Measure phase (2) C&E Matrix	
8	110/11/10 ~ 110/11/16	Measure phase (3) Measurement	
9	110/11/17 ~ 110/11/23	Visit company	
10	110/11/24 ~ 110/11/30	Midterm Exam Week	
11	110/12/01 ~ 110/12/07	Analyze phase - analysis method	

12	110/12/08 ~ 110/12/14	Visit company	
13	110/12/15 ~ 110/12/21	Improve phase (1)/ join the conference in May held by Department of Management Sciences	
14	110/12/22 ~ 110/12/28	Improve phase (2)	
15	110/12/29 ~ 111/01/04	Control phase	
16	111/01/05 ~ 111/01/11	Invite for Speech/ Visit company	
17	111/01/12 ~ 111/01/18	Outgoing teaching by joining the conference or visiting company/ field trip	
18	111/01/19 ~ 111/01/25	Final exam week	
Requirement	Pay attention to attendance, attention, and assignment Please join the conference in May held by Department of Management Sciences		
Teaching Facility	Computer		
Textbooks and Teaching Materials	Quality management, six sigma management		
References	Six sigma management related papers and books		
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 15.0 % ◆ Mark of Usual : 15.0 % ◆ Midterm Exam : 30.0 % ◆ Final Exam : 40.0 % ◆ Other < > : %		
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.		