IE-505 Total Quality Management (TQM)

Lecture Schedule	Thu: 06:30-09:00 pm	Semester	Fall 2014
Credit Hours	Three	Pre-requisite	
Instructor	Dr. Khawaja Mustafa Amin Haider	Contact	amin.haider@umt.edu.pk
Office		Office Hours	
Teaching Assistant	None	Contact	N/A
Course Description	Total quality management is a philosophy that aligns the effort of the entire organization towards producing quality, primarily for the achievement of customer satisfaction. The philosophy finds its origin in the teaching of Quality Gurus and evolved as an independent system based on a set of principles. These principles provide the basic guidelines for implementing different frameworks and techniques related to quality efforts. The course primarily focuses on these teachings and principles to investigate the different tools and techniques available for institutionalizing a system of quality.		
Expected Outcomes	The student will have the required theoretical appreciation to identify quality effort as a system that prevails throughout the organization rather than the traditional perspective contained within a specific department. The student shall also exhibit the necessary faculty for selecting, applying and interpreting the results of the different decision-making and statistical based tool for a specified quality related scenario.		
Textbooks	 The Management and Control of Quality by J R Evans and W M Lindsay Total Quality Management by D H Besterfield et al. 		
Grading Policy	Assignments and Quizzes:Presentation:Midterm [In Class]:Final:	10% 15% 25% 50%	

Lecture Plan

Weeks (Lectures)*	Topics	Readings
1	Course organization Introduction to the scope of the subject • Quality and TQM philosophy • Traditional vs. TQM approach	

2-4	Quality Gurus 1. The Early Americans Deming Juran Feigenbaum 2. Post-war Japanese Ishikawa Taguchi Shingo 3. Contemporary Western-wave Crosby Peters Moller		
5-7	TQM Principles Leadership Customer Satisfaction Process orientation Continuous improvement and Learning Empowerment and Teamwork Management by Facts Acceptability and Further issues		
	MIDTERM		
9-10	TQM Tools and Techniques – I Statistical Process Control Experimental Design and Analysis Quality Function Deployment		
11-12	TQM Tools and Techniques – II Cost of Quality Benchmarking Quality by design Failure mode and effect analysis		
13	Quality frameworks and awards Presentations – I		
14	Presentations – II Review of subject		
_	Final Exam		

^{* -} Lecture Distribution is Tentative