

Code	INI322	Prerequisites	CBM206
Name	Quality Tools	Co-requisites	None

Credits	Contact Hours	
02	22	
Categorization of credits		
Math and basic science		
Engineering topic	Х	
Other		

Coordinator's name Henry Alexander Soriano Andujar

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Cantu Delgado, H. (2006). Desarrolando una cultura de calidad (2nd edition). Mexico. Evan J, Lindsay W (2015). Quality Management and Control (9th Edition). Cengage Learning

Gryna, FM, Chua, R., & DeFeo, J.A. (2007). Juran Method: Quality Analysis and Planning. Juran, Joseph M. (Prol.); McGraw-Hill/Interamericana Editores, SA De CV (ed.); Blacksmith, M. Jesus (Trad.). 5th ed., Mexico.

Gutiérrez Pulido, H. (s/f). Calidad Total y Productividad (3rd Edition). McGraw Hill Hay, J. Edward. (2002) Just in time. Bogota, Editorial Norma

Juran, J. (s/f). Juran Method: Analisis y Planeacion de la Calidad (5th Edition). McGraw Hill

## Other supplemental materials

Description			
The purpose of the course is to stimulate the development of the intellectual abilities			
and technical skills necessary to use the quality tools that serve to determine, measure,			
analyze and propose solutions to the identified problems that interfere with the			
performance of the organization's processes. helping to improve quality indicators.			
The content of the subject offers the learning of techniques that help define, analyze,			
measure and propose solutions to problems or failures that interfere with the proper			
functioning of production processes. The	herefore, they allow greater control of		
improvements or processes in decision making.			
The second se	⊠ Required		
Type of course			

Specific goals for the course	

□Elective

Outcomes of	1. Identify the causes of engineering problems using the different
instruction	quality tools.
	2.Discriminate and apply tools to improve processes according to
	the problems identified through analysis.
	3. Demonstrate the ability to lead and participate in teams
	efficiently and effectively.
	4. Demonstrate openness towards constructive criticism and the
	recognition of needs for self-improvement, participating in
	training and feedback activities inside and outside the classroom.
	5. Establish a relationship between strategy and processes based
	on the planning, nature and limitations of any organization.
	6. Prepare standardized documentation, ensuring a unified
	language of the different elements of a process.
Student outcomes	SO1. Identify, formulate, and solve complex engineering
	problems by applying the principles of engineering, science, and
	mathematics.
	SO2. Apply the engineering design process to produce solutions
	that meet specific needs, taking into account public health and
	safety, global, cultural, social, environmental, and economic
	factors, as well as any other factor as appropriate to the discipline.
	SO3. Communicate effectively with a variety of audiences.
	SO5. Function effectively as a member or leader of a team setting
	goals, planning tasks, meeting deadlines, and creating a
	collaborative and inclusive environment.

topics

Unit I. Introduction to Quality Tools Unit II. Philosophy and Reference Frames Unit III. Sampling and Inspection Unit IV. Quality Tools