

Number of units 4	T 2	Pr -	Th 2	Number of weekly hours	Annual System 30 weeks	Al-Esra'a University College Department: Engineering of Refrigeration and Air Conditioning Technologies
				Engineering Management & Quality Control		Fourth stage

Course Objective

Teaching the student, the principles of engineering management and quality control.

week	Topic	Lab. Experiment Assignments	Notes
1	Introduction		
2	The role of industrial revolution		
٣	Industrial unit site - effecting factors on selecting site		
٤	Transferring methods and cases		
٥	(Factory planning)productive plant		
٦	Types of production lines		
٧	Product design and design effecting factors		
٨	Critical path method		
٩	production capacity		
١٠	Scheduling and loading production		
١١	Production steps		
١٢	Methods of material storage		
١٣	Industrial safety		
١٤	Time study		

۱۵	Work study		
Half-year break			
۱۶	Economic study		
۱۷	Methods of economic study		
۱۸	Introduction of maintenance		
۱۹	Maintenancetypes		
۲۰	Using methods of operation research in production		
۲۱	Case study of operation research		
۲۲	Production waiting line		
۲۳	Examples of production waiting line		
۲۴	Introduction of quality control		
۲۵	Statistics principles		
۲۶	Probability theory		
۲۷	Applications of probability distributions in quality control		
۲۸	Quality control charts		
۲۹	Example of quality control charts		
۳۰	Failure rate		