



Jordan University of Science and Technology
Faculty of Engineering
Chemical Engineering Department

CHE590A Special Topics A

Summer Semester 2019-2020

Course Catalog

3 Credit Hours. 3 Credit hours (3 h lectures). Principles and Philosophies of Quality, Total Quality Management, The 7 Quality Control tools, measurements and Statistics, Process Capability.

Text Book

Title	Quality
Author(s)	Donna C. S. Summers
Edition	4th Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Introduction to statistical quality control	D. C. Montgomery	5th Edition	

Instructor

Name	Prof. Majdi Al-Mahasneh
Office Location	N2 L2 / Department Main Office
Office Hours	
Email	mmajdi@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Mon, Tue, Wed : 08:30 - 10:00
Room: منصة الكترونية

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Introduction to Quality basics and Philosophy	From 1, From 2
Weeks 3, 4	Total Quality management	From 1, From 2
Weeks 5, 6	Measurements and Statistics	From 1, From 2
Weeks 7, 8	The seven Quality Control tools	From 1, From 2
Weeks 9, 10	Control Charts	From 1
Weeks 11, 12	Process capability	From 1
Weeks 13, 14	Cost of Quality	From 1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To be able to understand the need for quality control for both service and manufacturing firms. [14]	20%	
To be able to understand the role of numbers and statistics in objective quality control practices. [16]	25%	
To be able to understand the use of the quality control tools in establishing effective quality control plan. [11, 14]	35%	
To be able to recognize the concept of quality cost and how it affects the quality development in an organization [17]	20%	

Relationship to Program Student Outcomes (Out of 100%)						
1	2	3	4	5	6	7
17.50			37.50		25	20

Evaluation	
Assessment Tool	Weight
Exam 1	25%
Exam 2	25%
Hw and projet	10%
Final exam	40%

Policy

Attendance	Attendance will be checked at the beginning of each class. University regulations will be strictly followed for students exceeding the maximum number of absences.
Homework	Homework problems are assigned during lecture for practice purpose for exams. Try to solve the problems independently. The assigned problems will be collected, graded, and returned to you in lecture.
Student conduct	It is the responsibility of each student to adhere to the principles of academic integrity. Academic integrity means that a student is honest with him/herself, fellow students, instructors, and the University in matters concerning his or her educational endeavors. Cheating will not be tolerated in this course. University regulations will be pursued and enforced on any cheating student.
Course project	Students are responsible for forming a group of 4 members and choosing and presenting a project on Quality Management System for a specific company. The company should be approved by instructor before proceeding in the project. All projects are due in written report and presentations directly after 2nd midterm exam.

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