

**OSTİM TECHNICAL UNIVERSITY
ENGINEERING FACULTY**

**IENG 306 – QUALITY PLANNING AND CONTROL
COURSE CURRICULUM FORM
2022-2023**

IENG 306 – Quality Planning and Control							
Course Name	Course Code	Period	Hour	Application Time	Lab Time	Credit	ECTS
Quality Planning and Control	IENG 306	6	3	0	0	3	4

Precondition	No
Language of the Course	English
Type of the Course	Compulsory
Course Level	Bachelor Degree
Method of Teaching	Face to face, Online
Course Learning and Teaching Techniques	Lecture, Question and Answer, Application

The Aim of Course
To introduce the place and importance of quality in production and service systems. To teach methods related to quality design, planning and control at all stages of a production and service process.

Course Content
Ability to research and apply appropriate methods that can be used to solve real-life problems related to quality planning, control and improvement.

Weekly Topics and Related Preparation Studies		
Week	Topics	Preliminary
1	Introduction	
2	Quality management	
3	Standard and specification	
4	Tolerances	
5	Reliability	
6	Reliability	
7	Statistical process control	
8	Midterm Exam	
9	Statistical process control	
10	Statistical process control	
11	Statistical process control	
12	Acceptance sampling	
13	Acceptance sampling	
14	Acceptance sampling	
15	Acceptance sampling	
16	Final Exam	

Resources (Textbook and Supplementary Books)

1. Mitra, A., (1998), Fundamentals of Quality Control and Improvement, Prentice Hall. (Ders Kitabı)
2. Montgomery, C. D., (1997), Introduction to Statistical Quality Control, John Wiley & Sons.

Evaluation System

Studies	Number	Contribution Margin
Continue		
Laboratory		
Application		
Field Study		
Course Specific Internship (if applicable)		
Quizzes/Studio/Critical		
Homework		
Presentation		
Projects		
Report		
Seminar		
Midterm Exams/Midterm Jury	1	% 40
General Exam/Final Jury	1	% 60
Total		% 100
Contribution to the Success Grade of Mid-Semester Studies		% 40
Contribution of End of Semester Studies to Success Grade		% 60
Total		% 100

Course Category

Basic Vocational Courses	X
Specialization/Field Courses	
Support Lessons	
Communication and Management Skills Lessons	
Transferable Skills Lessons	

Relation of Course Learning Outcomes and Program Qualification						
No	Program Qualifications / Outcomes	Contribution Level				
		1	2	3	4	5
1	Ability to design, conduct experiments, collect data, evaluate and interpret results for the analysis and solution of Industrial Engineering problems.					x
2	To be able to use course information in solving industrial engineering problems.					x
3	Acquisition of analytical thinking skills				x	
4	Ability to use information technologies required for Industrial Engineering applications.			x		
5	Having an up-to-date and sufficient background in engineering, mathematics, science and social sciences related to industrial engineering; To be able to use the theoretical and applied knowledge in these fields together in solving industrial engineering problems.					x

ECTS/Workload Table			
Activities	Number	Duration (Hours)	Total Workload
Lesson hours (Including the exam week: 16 x total lesson hours)	16	3	48
Laboratory			
Application			
Course Specific Internship			
Field Study			
Out of Class Study Time	16	3	48
Presentation/Seminar Preparation			
Projects			
Reports			
Homeworks			
Quizzes/Studio Critic			
Preparation Time for Midterm Exams/Midterm Jury	1	16	16
Preparation Time for the General Exam/General Jury	1	16	16
Total Workload	(128/30 =4)		128