

**OSTİM TECHNICAL UNIVERSITY
ENGINEERING FACULTY**

**IENG 304 – WORK STUDY AND
ERGONOMICS
COURSE CURRICULUM FORM
2022-2023**

IENG 304 – Work Study and Ergonomics							
Course Name	Course Code	Period	Hour	Application Time	Lab Time	Credit	ECTS
Work Study and Ergonomics	IENG 304	4	1	0	0	4	5

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
The importance and application of work study.

Course Content
To gain the ability to identify the problems that are the subject of Work Study, to apply and analyze Method Study and Work Measurement studies in the business environment.

Weekly Topics and Related Preparation Studies		
Week	Topics	Preliminary
1	Historical development of work study and industrial engineering.	
2	The concept of work and productivity, the definition of work study, its aims, scope and application stages.	
3	Definition, aims and application areas of method study.	
4	Levels and application stages of method study	
5	Selection of the work to be studied, collecting and recording information about the selected work.	
6	Examination of the existing method and development of a better method.	
7	Implementation of the developed method, monitoring the application and making necessary corrections.	
8	Midterm Exam	
9	Scope, objectives and techniques of work measurement	
10	Making work measurement, definition and application stages of time study.	
11	Making work measurement, definition and application stages of time study.	
12	Work Sampling definition and application stages	

13	Synthetic Times	
14	Predictive motion time study definition and applications.	
15	Calculation of standard times for machine work.	
16	Final Exam	

Resources (Textbook and Supplementary Books)
<p>Akal Zuhal, “İş Etüdü”, Milli Prodüktivite Yayınları No:29, Ankara, 2000 2) Orhan Kuruüzüm, “Verimliliği Artırmada İş Etüdü Teori ve Uygulamaları”, İTÜ Yayınları No:1497, İstanbul, 1992 3) Emin Kahya, “İş Etüdü”, Osmangazi Üniversitesi MMF Endüstri Müh. Böl. Yayını, Eskişehir, 2004 4) Mustafa Kurt, Metin Dağdeviren, “İş Etüdü”, Gazi Kitabevi, Ankara, 2003</p>

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	4	64
Laboratory			
Application			
Course Specific Internship			
Field Study			
Out of Class Study Time	16	4	64
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	(160/30 =5)		160