



COURSE / MODULE / BLOCK DETAILS

ACADEMIC YEAR / SEMESTER

Offered by: Endüstri Mühendisliği			
Course Title: ERGONOMIC ASSESSMENT AND JOB SAFETY		Course Org. Title: ERGONOMIC ASSESSMENT AND JOB SAFETY	
Course Level: Lisans		Course Code: IND 4920	
Language of Instruction: İngilizce		Form Submitting/Renewal Date 22/08/2013	
Weekly Course Hours: 3		Course Coordinator: YRD.DOÇENT BURCU FELEKOĞLU	
Theory	Application	Laboratory	National Credit: 3
3	0	0	ECTS Credit: 4



DOKUZ EYLUL UNIVERSITY

FACULTY OF ENGINEERING OFFICE OF THE DEAN



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Offered to:	Course Status: Compulsory/Elective
Name of the Department:	
Industrial Engineering	Elective Course

Wire: 0 232 301 72 15

Fax: 0 232 301 72 10

Access: <http://www.eng.deu.edu.tr>

Address: Dokuz Eylül Üniversitesi Tınaztepe Yerleşkesi 35160 Buca/İZMİR E-mail: muhendislik@deu.edu.tr



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Instructor/s:

Wire: 0 232 301 72 15

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Access: <http://www.eng.deu.edu.tr>

Address: Dokuz Eylül Üniversitesi Tınaztepe Yerleşkesi 35160 Buca/İZMİR E-mail: muhendislik@deu.edu.tr



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Course Objective:

This course aims to provide students an understanding of various ergonomic assessment techniques and how these assessments can be used for reducing the potential for accidents, injury and ill health, improving performance and productivity.

Learning Outcomes:

- 1 Ability to describe the importance of ergonomic assessment and job safety
- 2 Ability to describe how the demands on the worker when performing a job can be assessed from an ergonomics perspective
- 3 Ability to describe how the equipment used when performing a job can be assessed from an ergonomics perspective
- 4 Ability to describe how the information used when performing a job can be assessed from an ergonomics perspective
- 5 Ability to describe how the physical environment related to a job can be assessed from an ergonomics perspective

Learning and Teaching Strategies:

Lecture notes will be provided using whiteboard and visual presentations. Real world examples will be provided. Individual and team work exercises will be performed.

Assessment Methods:

Name	Code	Calculation formula
Vize	VZ	
Ödev	OD	
Final	FN	
Bütünleme Notu	BUT	
BNS	BNS	$VZ * 025 + D * 025 + FN * 050$
Bütünleme Sonu Başarı Notu	BBN	$VZ * 025 + D * 025 + BUT * 050$

Further Notes about Assessment Methods:



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Assessment Criteria:

Textbook(s)/References/Materials:

Lecturer notes

Textbook:

Marras, William S. And Karwowski, Waldemar (2006) Fundamentals and Assessment Tools for Occupational Ergonomics (The Occupational Ergonomics Handbook), 2nd Ed. CRC Press, Taylor & Francis Group

Wickens, Christopher D., Lee, John D., Liu, Yili and Gordon-Becker, Sallie (2003) An Introduction to Human Factors Engineering. 2nd Ed. Pearson.

Course Policies and Rules:

Contact Details for the Instructor:

Asst. Prof. Dr. Burcu Felekoglu
Email: burcu.felekoglu@deu.edu.tr
Tel: 0 232 3017616

Office Hours:

To be announced at the beginning of the semester.

Course Outline:

Week	Topics:	Notes:
1	Introduction - Humans in work system environment	
2	Importance of ergonomics and job safety	



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3	Assessing the demands on the worker
4	Assessing the demands on the worker
5	Assessing the equipment used
6	Assessing the equipment used
7	Assessing the information used
8	Assessing the information used
9	Mid-term exam
10	Assessing the physical environment
11	Assessing the physical environment
12	Group presentations
13	Group presentations
14	Group presentations



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ECTS Table

Course Activities	Number	Duration (hour)	Total Work Load (hour)
In Class Activities			
Lectures	10	3	30

Exams

Final	1	3	3
Midterm	1	2	2

Out Class activities

Preparations before/after weekly lectures	10	1	10
Preparation for midterm exam	1	15	15
Preparation for final exam	1	20	20
Preparing assignments	1	20	20
Total Work Load (hour)			100
ECTS Credits of the Course= Total Work Load (hour) / 25			4