

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IND345	Ergonomics	6	3	0	0	3	4

Prerequisites

Admission Requirements

Language of Instruction French

Course Type Elective

Course Level Bachelor Degree

Objective This course is intended to give an overview of ergonomics and human factors design principles to allow the student to gain an insight into the area of human performance in the workplace.

Content

- Introduction to Ergonomics
- Ergonomics in the Workplace
- Macro ergonomics and industrial examples
- The dimensions of macro ergonomics and industrial examples
- Micro ergonomics and industrial examples
- The dimensions of micro ergonomics and industrial examples
- Anthropometry and industrial examples
- Identify and solve problems of ergonomics in the company
- Working Study - Time Analysis
- Ergonomics in the Office
- Ergonomics in the Construction Sector
- Ergonomics in the Healthcare Sector

References

1. R.S. Bridger, 2003, "Introduction to Ergonomics", (2nd edition), McGraw-Hill Companies.
2. K. Kroemer, H. Kroemer, K. Kroemer-Elbert, 2001, "Ergonomics: How to design for ease and efficiency", (2nd edition), Prentice Hall.
3. M.P. Groover, 2007, Work Systems and the Methods, Measurement, and Management of Work, Prentice Hall.
4. Necmettin Erkan, 2000, "Ergonomi", (5th edition), MPM yayınları, No:373.

Theory Topics

Week	Weekly Contents
1	Introduction to Ergonomics
2	Ergonomics in the Workplace
3	Macro ergonomics and industrial examples
4	The dimensions of macro ergonomics and industrial examples
5	Micro ergonomics and industrial examples
6	The dimensions of micro ergonomics and industrial examples
7	Midterm
8	Anthropometry and industrial examples
9	Identify and solve problems of ergonomics in the company
10	Working Study - Time Analysis
11	Ergonomics in the Office
12	Ergonomics in the Construction Sector
13	Ergonomics in the Healthcare Sector
14	Presentations industrial ergonomics projects made by students