



Course Specification

Ergonomic and Human Factor

Course Specifications

Program(s) in which the course is given: Industrial Engineering
Major or minor element of programs: N/A
Department offering the program: Industrial Engineering
Department offering the course: Industrial Engineering
Academic year / Level: 2009/2010 / Level 4

Date of specification approval:

A- Basic Information

Title: Ergonomic and Human Factor Code: IND 403
Credit Hours:
 Lecture: 3
 Exercises: 3
 Total: 6

B- Professional Information

1- Overall aims of the course

The course is designed to give students all information about ergonomic and human factor

2- Intended learning outcomes of the course (ILOs)

a. Knowledge and understanding

b. Intellectual skills

Analysis Creative thinking Problem solving

c. Professional and practical skills

Managing Engineering design
 Computer program Ability to diagnose
 Ability to identify the problem
 Ability to estimate cost Other

d. General and transferable skills

Computing Communication
 Management Working in group
 Use of technological tools

3- Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Ergonomic	6	3	3
Productivity and the standard of living	6	3	3
Work study	6	3	3
Human factors in the application of work study	6	3	3
Working condition	6	3	3
Introduction to method study	6	3	3
Movement of workers in the shop	6	3	3
Methods and movements at the work place	6	3	3
Total	48	24	24

4- Teaching and learning methods

- | | |
|--|---|
| <input checked="" type="checkbox"/> Information collection | <input checked="" type="checkbox"/> Discussions |
| <input type="checkbox"/> Research assignment | <input type="checkbox"/> Field visit |
| <input checked="" type="checkbox"/> Lecture | <input type="checkbox"/> Practical training / lab |
| <input checked="" type="checkbox"/> Class activities | <input checked="" type="checkbox"/> Case study |

5- Student assessment methods

- Class attendance and participation
- Homework assignments
- First midterm exam
- Final exam

Assessment schedule

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|----------------------|----------------------|
| Homework assignments | weeks 3, 5, 7, 9, 11 |
| First midterm exam | week 8 |
| Final exam | |

Weighting of assessments

- | | |
|------------------------------------|------|
| Final | 40 % |
| 7 th week Exam | 30 % |
| 12 th week Exam | 20 % |
| Class attendance and participation | 5 % |
| Homework assignments | 5 % |

6- List of references

6.1 Course notes

6.2 Essential books

- B.Kumar , 'Industrial Engineering & Management' Khana Pub., 2004
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6.3 Recommended books

- Introduction to Ergonomic
- Introduction to Work Study

7- Facilities required for teaching and learning

- Computer Lab
- Data Show
- Overhead Projector

Course Coordinator: Dr. Hesham Moursy

Program Coordinator: Prof. Dr. Attia Gomaa

General Supervisor & Vice Dean: Prof. Dr. Abdallah Saad

Date: 01 / 06 / 2010