

Course Specification

Advanced Safety

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

Date of specification approval:

A- Basic Information

Title: Advanced Safety Code: IND 407
Credit Hours:
Lecture: 2
Exercises 2
Total: 4

B- Professional Information

1- Overall aims of the course

- To know and understand what meant by safety and fire fighting systems.

2- Intended learning outcomes of the course (ILOs)

a. Knowledge and understanding

Upon the completion of the engineering chemistry course the student should be able to demonstrate knowledge and understanding of engineering safety, fir fighting systems

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
introduction			
advanced topics in occupational and product safety management			
Topics include: analysis of human factors related to injury prevention; research methods related to accident/incident data; safety standards development			
Methods of risk assessment and reduction; and advanced hazard communication.			
A wide variety of case studies are analyzed.			
Total			

4- Teaching and learning methods

- | | |
|--|---|
| <input checked="" type="checkbox"/> Information collection | <input checked="" type="checkbox"/> Discussions |
| <input checked="" 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

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

Weighting of assessments

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

6- List of references

6.1 Course notes

6.2 Essential books

- **Introduction to Fire Safety Management Andrew Furness CFIOSH, GIFireE, Dip2OSH, MIIRSM, MRSH Martin Muckett MA, MBA, CMIOSH, MIFireE, Dip2OSH**

6.3 Recommended books

- **Basic Guide to System Safety Second Edition**

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