DEGREE CURRICULUM

INDUSTRIAL LEGISLATION AND INTEGRATED MANAGEMENT

Coordination: PALA JORBA, JOAN

Academic year 2021-22

INDUSTRIAL LEGISLATION AND INTEGRATED MANA... 2021-22

Subject's general information

<table>
<tr><td>Subject name</td><td>INDUSTRIAL LEGISLATION AND INTEGRATED MANAGEMENT</td></tr>
<tr><td>Code</td><td>102490</td></tr>
<tr><td>Semester</td><td>2nd Q(SEMESTER) CONTINUED EVALUATION</td></tr>
<tr><td>Typology</td><td>
<table>
<tr><th>Degree</th><th>Course</th><th>Typology</th><th>Modality</th></tr>
<tr><td>Bachelor's degree in Industrial Organization and Logistics Engineering</td><td>3</td><td>COMPULSORY</td><td>Attendance-based</td></tr>
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<tr><td>Course number of credits (ECTS)</td><td>6</td></tr>
<tr><td>Type of activity, credits, and groups</td><td>
<table>
<tr><th>Activity type</th><th>PRAULA</th><th>TEORIA</th></tr>
<tr><td>Number of credits</td><td>3</td><td>3</td></tr>
<tr><td>Number of groups</td><td>1</td><td>1</td></tr>
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<tr><td>Coordination</td><td>PALA JORBA, JOAN</td></tr>
<tr><td>Department</td><td>INFORMÀTICA I ENGINYERIA INDUSTRIAL</td></tr>
<tr><td>Teaching load distribution between lectures and independent student work</td><td>Lecture activities: 60 hours (50% on line)
Independent study work: 90 hours</td></tr>
<tr><td>Important information on data processing</td><td>Consult this link for more information.</td></tr>
<tr><td>Language</td><td>Catalan</td></tr>
<tr><td>Distribution of credits</td><td>3 Theory
3 Practice</td></tr>
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Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ESTEBAN DALMAU, BERNAT	bernat.esteban@udl.cat	,5	
PALA JORBA, JOAN	joan.pala@udl.cat	5,5	

Learning objectives

Industrial legislation

• Know the Spanish regulatory system in the industrial and security areas.

• Recognize, identify and manage the main industrial and safety regulations.

• Ability to interpret and apply industrial legislation in representative cases and examples in an industrial environment.

Industrial management

• Know the implementation of quality management systems, environment and PRL

• Perform the integration of the previous systems, in a single system.

• Know the techniques of innovation and creativity, with capacity for implementation.

Competences

Basic

B03 That students have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include a reflection on relevant social, scientific or ethical issues.

B04 That students can transmit information, ideas, problems and solutions to a specialized and non-specialized public.

General competences

CG5. To carry out measurements, calculations, valuations, appraisals, surveys, studies, reports, work plans and other analogous work.

CG6. To implement specifications, regulations and mandatory rules.

CG8. To apply the principles and methods of quality.

CG10. To work in a multilingual and multidisciplinary environment.

CG11. To understand and apply the necessary legislation in the exercise of the profession of Industrial Organization Engineer

Specific competences

CE17. To recognize the organisational structure and the functions of a Project Office.

CE21. To acquire capacity to manage human resources and risk prevention and safety at work.

CE28. To acquire capacity to design and optimize industrial plants and productive processes.

Transversal

CT3. To iImplement new technologies and technologies of information and communication.

Subject contents

1. Regulation and ordering

Regulatory regulation in Spain

European Legislation European Directives

State Legislation

Autonomic legislation

Local regulations

Law, Decree Law, Decree, Ordinances

2. Initial regulatory aspects

Standardization, approval, accreditation, certification.

3. Licenses of activities and works.

Basic industrial urbanism.

Urban compatibility certificate

Prevention and control of activities law

Licenses of works (linked with activities)

4. Regulation linked to environmental licenses.

RSCIEI and CTE (restricted to industrial casuistry)

Serious accidents

Industrial waste

Soil contamination

Air pollution and odor

Water pollution and discharges

Acoustic pollution

5. Industrial safety regulations

electrical s installations of high tension

Low-voltage electrical installations

Installation of gaseous fuels

oil installations

Storage facilities for chemical products

Pressure equipment installations

Refrigeration installations

Lifting equipment installations

6. Machine safety

Manufacturing, adaptation, verification

Applicable casuistry. Schematic procedure.

7. CE Marking

Raw materials and manufactured products

Free movement

Labeled. Content

Obligations and responsibilities

8. Industrial Property

Patents

Utility models

Brands

Logos

9. Management areas

9.1. Quality management

General requirements of the UNE-EN ISO 9001: 2008 standard

Implementation process

Documentation control

Certification

EFQM excellence model

Quality costs

9.2. The environmental management

General requirements and environmental policy

Planning of the implantation

Environmental legislation, standard UNE-EN ISO 14001: 2004 and the European Regulation (EMAS II) of Management (761/2001)

The initial environmental review in the SGA

Planning, implementation and operation of the GHS

Verification and certification of the SGA

9.3. The management of safety and prevention of occupational risks.

The law of prevention of occupational risks

The preventive action

Organization of prevention

The OHSAS 18001 standard. The ILO guidelines and other models

The certification.

9.4. The management of research, development and innovation.

Definition and basic concepts of I + D + I

The management of R + D + I projects according to the UNE 166001 standard

The management of R & D + I in the company according to the UNE 166002 standard

The certification process

10. Implementation and development of the integrated management system

10.1. Process management.

The mission, vision and strategy of the company

The process architecture of the company

The measure of the effectiveness of the process: the control of processes

The definition of the management system of the company

10.2. Requirements of the integrated management system. Management models: ISO 9001, ISO 14001, OHSAS 18001 and UNE 166001/2 standards

10.3. Design and implementation of the integrated management system of the company

10.4. Audits in the SIG

Methodology

The development of the subject is based on 3 actions:

1) Master classes
Presentation of the concepts, principles and fundamental relationships of each topic
Statement of examples that illustrate its application
2) Problems
Discussion and resolution of exercises, problems and applications related to the concepts of each topic.
Basically work on the problems proposed in the collection of problems of the subject
3) Practices (Exercises - problems)
Practical realization of the concepts achieved

Development plan

Week	methodology	Theme	classroom hours	autonomous work hours
1	Master class Problems	1. Regulation and ordering 2. Initial regulatory aspects	4	6
2	Master class Problems	3. Licenses of activities and works.	4	6
3	Master class Problems	4. Regulation linked to environmental licenses. (1)	4	6
4	Master class Problems	...4. Regulation linked to environmental licenses. (2)	4	6
5	Master class Problems	5. Industrial safety regulations (1)	4	6
6	Master class Problems	...5. Industrial safety regulations (2)	4	6
7	Master class Problems	...5. Industrial safety regulations (3)	4	6
8	Master class Problems	6. Machine safety	4	6
9	Master class Problems	7. CE Marking	4	6
10	Master class Problems	8. Industrial Property	4	6
11	Master class Problems	9. Management areas (1)	4	6
12	Master class Problems	...9. Management areas (2)	4	6
13	Master class Problems	10. Implementation and development of the integrated management system (1)	4	6
14	Master class Problems	...10. Implementation and development of the integrated management system (2)	4	6
15	Tutorials		4	6
		TOTAL	60	90

Evaluation

There will be a continuous evaluation of the subject and those who do not follow the continuous evaluation will be able to apply for the alternative evaluation.

Qualification of the subject according to the continuous evaluation:
- 45% Exercises and activities block 1
- 45% Exercises and activities block 2.
- 10% Oral presentation

Qualification of the subject according to the alternative evaluation:
- 30% Test 1.
- 30% Test 2.

• 40% Exercises and activities.

Bibliography

BASIC:
Technical regulations and safety regulations to be studied during the course.
AENOR. (2008). UNE-EN ISO 9001: 2008. Quality management systems. Requirements (ISO 9001: 2008)
AENOR. (2004). UNE-EN ISO 14001: 2004 / AC: 2009. Environmental management systems. Requirements with guidance for use. (ISO 14001: 2004 /
Cor 1: 2009)
EC. 82009. Regulation (EC) no. 1221/2009 of the European Parliament and of the Council. Voluntary participation of organizations in a system
Community environmental management and audit (EMAS)
OHSAS. (2007). OHSAS 18001: 2007. Occupational safety and health management systems
AENOR. (2005). UNE 66177: 2005. Management systems. Guide for the integration of management systems
CIDEM (Center for Innovation and Business Development). 2004. Integrated management systems. Generalitat of Catalonia. work Department
and Industry. ISBN 84-393-6388-5
CIDEM (Center for Innovation and Business Development). 2005. The Systematization of innovation: standards of the UNE 166,000 R & D + I series.
Generalitat of Catalonia. Department of Labor and Industry. ISBN 84-393-6690-6

COMPLEMENTARY:
The one that is indicated of each subject during the course.