



## Model No.12

# Course Specifications: Environmental impact

Faculty of Engineering at Shoubra For the academic year 2014-2015

### A- Basic Information

#### 1- Course Data

Code: GEN 382    Course Title: Environmental impact    Study year: Third year  
Specialization :  
Teaching hours  
Lecture: 2                      Tutorial:                      Practical:                      Total: 2

#### 2- Course aim

Understanding and Studying the following items:  
2.1- Introduction to Ecology  
2.2- How to evaluate the project environmentally  
2.3- assessment methods  
2.4- environmental performance evaluation  
2.5- Environmental Control Act and its applications

#### 3- Intended Learning Outcomes of Course (ILOS)

##### a- Knowledge and Understanding

On completing this course, students will be able to:  
a-1 Describe quality assurance systems, codes of practice and standards, health and safety requirements and environmental issues. (a7)

##### b- Intellectual Skills

At the end of this course, the students will be able to:  
b-1) Judge engineering decisions considering balanced costs, benefits, safety, quality, reliability, and environmental impact.(b10)  
b-2) Incorporate economic, social, environmental dimensions and risk management in design.(b11)

##### c- Professional and Practical Skills

At the end of this course, the students will be able to:  
c-1) Apply quality assurance procedures and follow codes and standards.(c10)

##### d- General and Transferable Skills

At the end of this course, the students will be able to:  
d-1) Work in stressful environment and within constraints.(d2)  
d-2) Search for information and engage in life-long self learning Environmental impact.(d7)  
d-3) Acquire entrepreneurial skills.(d8)

#### 4-Course Contents

No	Topic	No. of hours
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1	Introduction to Ecology	2
2	How to evaluate the project environmentally	4
3	assessment methods	4
4	environmental performance evaluation	6
5	Environmental Control Act and its applications	6
6	case study	2

## 5- Teaching and Learning Methods

- 5.1- Lectures
- 5.2- workshop
- 5.3- Class activity
- 5.4- Case study
- 5.5- Assignments / homework

## 6- Teaching and Learning Methods of Disables

- 6.1- nothing

## 7- Student Assessment Methods

### a. Student Assessment Methods

1	Assignments to assess knowledge and intellectual skills.
2	Quiz to assess knowledge, intellectual and professional skills.
3	Mid-term exam to assess knowledge, intellectual, professional and general skills.
4	Oral exam to assess knowledge and intellectual skills.
5	Final exam to assess knowledge, intellectual, professional and general skills.

### b. Assessment Schedule

No.	Assessment	Week
1	Assessment 1	2, 5, 9, 11
2	Quizzes	4, 6, 10, 12
3	Mid-term exam	8
4	Oral Exam	14
5	Final exam	15

### c. Weighting of Assessments

Assessment	Weight
Mid_Term Examination	10 %
Final_Term Examination	60 %
Oral Examination	20 %
Practical Examination	0 %
Semester work	5 %
Other types of assessment	5 %
Total	100 %

## 8- List of References

- Course notes
- Course notes prepared by instructor.
- Essential books
- Recommended books

## 9- Facilities required for teaching and learning

- Lecture room equipped with overhead projector

Presentation board, computer and data show  
Laboratory

**Course instructor:** Dr.

**Head of Department :** Prof. Dr. SayedAboo-Elsood Ward



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### Course Specifications: Environmental impact

for the academic year 2014-2015

Faculty of Engineering at Shoubra

**University :** Benha university

**Faculty :** Faculty of Engineering at Shoubra

**Department :** Electrical Engineering Department

**Matrix of Knowledge and Skills of the course**

No	Topic	No. of hours	ILOs	Teaching / learning methods and strategies	Assessment method
1	Introduction to Ecology	2	a1, b1	Lectures, Case study	Assignments
2	How to evaluate the project environmentally	2	a1, b1, b2, d3	Lectures, Case study	Assignments
3	How to evaluate the project environmentally	٢	a1, b1, b2, c1, d2, d3	Lectures, Case study	Assignments
4	assessment methods	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments, Quizes
5	assessment methods	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments, Quizes
6	environmental performance evaluation	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments
7	Mid term exam		a1, b1, b2		
8	environmental performance evaluation	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments
9	environmental performance evaluation	٢	a1, b1, b2, c1, d1, d2,	Lectures, Case study	Assignments

			d3		
10	Environmental Control Act and its applications	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments
11	Environmental Control Act and its applications	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments
12	Environmental Control Act and its applications	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments, Quizes
13	case study	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Assignments, Quizes
14	case study	٢	a1, b1, b2, c1, d1, d2, d3	Lectures, Case study	Oral exam
15	Final exam		a1, b1, b2		

- Course Coordinator : Dr.

- Head of Department : Prof. Dr. SayedAbou-Elsood Ward

## Matrix of course content and ILO's

**Course Title**Environmental impact **Code**GEN 382**Lecture:** 2 **Tutorial:** **Practical:** - **Total:**2

**Program on which the course is given:**B.Sc. Electrical Engineering (Communications)

**Major or minor element of program:** Major

**Department offering the program:** Electrical Engineering Department

**Department offering the course:** Electrical Engineering Department

**Academic year / level:** **Third** Year / **First** Semester**2014-2015**

**Date of specifications approval:** 20/6/2010

Course content	a1	b1	b2	c1	d1	d2	d3
Introduction to Ecology	✓	✓					
How to evaluate the project environmentally	✓	✓	✓	✓		✓	✓
assessment methods	✓	✓	✓	✓	✓	✓	✓
environmental performance evaluation	✓	✓	✓	✓	✓	✓	✓
Environmental Control Act and its applications	✓	✓	✓	✓	✓	✓	✓
case study	✓	✓	✓	✓	✓	✓	✓

## Matrix of course aims and ILO's

**Course Title** Environmental impact **Code** GEN 382 **Lecture:** 2 **Tutorial:** **Practical:** - **Total:** 2

**Program on which the course is given:** B.Sc. Electrical Engineering (Communications)

**Major or minor element of program:** Major

**Department offering the program:** Electrical Engineering Department

**Department offering the course:** Electrical Engineering Department

**Academic year / level:** Third Year / First Semester **2014-2015**

**Date of specifications approval:** 20/6/2010

Course aims	a1	b1	b2	c1	d1	d2	d3
understand and study introduction to Ecology	✓	✓					
understand and study how to evaluate the project environmentally	✓	✓	✓	✓		✓	✓
assessment methods	✓	✓	✓	✓	✓	✓	✓
environmental performance evaluation	✓	✓	✓	✓	✓	✓	✓
Environmental Control Act and its applications	✓	✓	✓	✓	✓	✓	✓

**Course coordinator:**

**Course instructor**

**Head of department:** Prof. Dr. SayedAboo-Elsood Ward

**Date:** / /