

**Faculty of Engineering & Technology**

**Environmental Sciences**

**Information :**

**Course Code :** ENV 101

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** University Requirments

**Area Of Study :**

This course aims at:

1. Enrich the student's awareness of environment and its problems
2. Enrich the student's awareness of the abusing risks of the environment.

**Description :**

This course helps the students to develop knowledge required to critically evaluate environmental problems and issues, and provide applied solutions. The course is decidedly interdisciplinary in nature, focusing on the underlying natural processes relating to the environment, understanding and employing the scientific methods. The course includes studying natural resources, the relationship between environmental issues and society, as well as sustainable development. The course also perceives how respective official and nonofficial institutions deal with these issues and what sort of impact they have

**Course outcomes :**

**a.Knowledge and Understanding: :**

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|-----|--|
| 1 - | a2. Define the modern life bad impact on environment.                          |
| 2 - | a1. Define fundamental concepts and theories related to environmental science. |

**d.General and Transferable Skills: :**

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|-----|--|
| 1 - | d3. Communicate effectively.   |
| 2 - | d2. Work in a team.  |
| 3 - | d1. Exploit a range of learning resources about environmental science. |

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to environmental science	2	1	0
Natural resources management. Ecological footprint, population and consumption as well as sustainability	2	1	0
Air pollution	2	1	0
Temperature inversion. Indoor air pollution. Air pollution control, solutions to acid rain.	2	1	0
Climate change. Troposphere, stratosphere. The greenhouse effect. Ozone layer decay. Future climate prediction	2	1	0
Water resources	2	1	0

### **Course Topic And Contents :**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Tutorial / Practical</b>
Water pollution and water quality. Eutrofication, ground water	2	1	0
Solids and hazardous waste. Resources, waste disposal methods	2	1	0
Environmental legislations	2	1	0
Energy use and conversion	4	2	0
Land reclamation	4	2	0
Project presentation	4	2	0

### **Teaching And Learning Methodologies :**

Interactive Lectures including discussion

Self-Study (Project / Reading Materials / Presentations)

Case Studies

### **Course Assessment :**

<b>Methods of assessment</b>	<b>Relative weight %</b>	<b>Week No</b>	<b>Assess What</b>
Final exam	40.00		
First Mid Term Exam	15.00		
Individual Project	5.00		
Presentation	5.00		
Quizzes	10.00		
Second Mid Term Exam	15.00		

### **Web Sites :**

[www.ekb.eg](http://www.ekb.eg)