

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: :

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

d.General and Transferable Skills: :

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

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 :

| Topic | No. of hours | Lecture | Tutorial / Practical |
|--|--------------|---------|----------------------|
| 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 :

| Methods of assessment | Relative weight % | Week No | Assess What |
|-----------------------|-------------------|---------|-------------|
| 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