

Faculty of Computers and Information Technology

Environmental Sciences

Information :

Course Code : ENV 101

Level : Undergraduate

Course Hours : 2.00- Hours

Department : University Requirments

Area Of Study :

Apply the basic concepts, terminology, principles and theories in area of environmental science.
Demonstrate professional responsibilities, ethical, cultural and societal aspects in area of environmental science.
Deal with the individual, social, environmental, organizational and economic implications of the application of environmental science.
Use effectively communication skills to emphasize research methodology, to encourage critical thinking, and to convey a scientific as well as systematic approach to environmental awareness.

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 - | Discuss essential concepts and knowledge related to the environment |
| 2 - | Identify different sources of pollution and its impact on the environment |
| 3 - | Identify knowledge gained into spreading awareness about protecting the environment |

b.Intellectual Skills: :

- | | |
|-----|---|
| 1 - | Analyze the reasons of environmental pollution to apply on personal relationships |
| 2 - | Implement the solutions of assessing human behavior toward the environment |

c.Professional and Practical Skills: :

- | | |
|-----|--|
| 1 - | Run observational methods to describe, explain, predict and control the pollution of the environment |
| 2 - | Use ecology to influence and improve live of living organisms |
| 3 - | Install and maintain different tools to improve the ecosystem |

d.General and Transferable Skills: :

- | | |
|-----|--|
| 1 - | Communicate effectively with others by applying the information they gained about how to protect the earth |
| 2 - | Apply communication skills and techniques in presentations and report writing for range of audiences using various methods and tools |

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to environmental science	2	2	
Introduction to environmental science	2	2	
Definition of the environment and all related factors affecting the environment.	2	2	
Air pollution- Indoor/ outdoor air pollution.	2	2	
Air pollution- Indoor/ outdoor air pollution.	2	2	
Air pollution control, Impact of acid rain on the environment.	2	2	
Mid Term Exam	1		
Climate change.The greenhouse effect. Ozone layer decay.	2	2	
Water resources	2	2	
Water pollution.	2	2	
Noise pollution.	2	2	
Land pollution and reclamation	2	2	
Solids and hazardous waste. Resources, waste disposal methods	2	2	
Final Exam	2		

Teaching And Learning Methodologies :

Interactive Lectures including discussion
Self-Study (Project / Reading Materials / Online Material / Presentations)
Case Studies

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00	14	
Individual Projects	5.00		
Midterm Exam (s)	30.00	9	
Presentations	5.00		
Quizzes	10.00		

Course Notes :

Course Notes are available with all the slides used in lectures in electronic form on Learning Management System (Moodle)

Web Sites :

www.ekb.eg