

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

**b.Intellectual Skills: :**

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

**c.Professional and Practical Skills: :**

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

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

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

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

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Tutorial / Practical</b>
Introduction to environmental science	2	2	
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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 :**

<b>Methods of assessment</b>	<b>Relative weight %</b>	<b>Week No</b>	<b>Assess What</b>
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](http://www.ekb.eg)