

UNR2603 Environmental Sciences and Technology**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
None	1	1	2	0	0	2

COURSE AIM

- To raise the level of environmental awareness of the students, and provide them with the necessary knowledge, capabilities and attitude. This will enable them to deal more positively with environmental resources and their components, through learning about the diversity and complexity within the environment and the changes and transformations that occur through human activities.
- To raise the environmental awareness of the student regarding the importance of applying the sustainability aspects for computing projects as well as the preventive technology for environmental conservation.

COURSE WEEKLY CONTENTS

1	Environmental sciences and definitions of Physical, chemical , biological, and social environments and environmental studies
2	Ecology and ecological system, formations, functions and limiting factors, energy transfer and materials cycling in ecosystem
3	Changing the role of technology, sustainability and preventive technology
4	Green technology and sustainable communities
5	Population and population growth and resources depletion and pollution.
6	Air pollution sources, types and control, smoke, fogs and smog phenomena. Greenhouse gases and impacts on the environment
7	Climate change and sea level rise and its management
8	Acid rains and its effects on soil, water and biological systems
9	2 hrs revision and 2 hrs the seventh week assessment -
10	Tropospheric and stratospheric ozone sources, roles and effects
11	Water pollution types, sources and treatments
12	Radiation and radioactivity and health hazards and radiation protection
13	Waste sources, types and management
14	Discussion of reports as and 12th week assessment
15	Environmental auditing, impacts assessment and methodology

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	←		30	MARKS		→	30
8 to 12	←		20	MARKS		→	20
1 to 15	←		10	MARKS		→	10
16 or 17	40	Final					40

REFERENCES

Textbook	• Cheryl Simon and Ruth Dyries, One Earth, One Future – Our Changing Global Environment, International Pub & Dis House.
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