



Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name Ecology

Course number BIOL2307

Faculty

Department

Course type College Needs

Course level 2

Credit hours (theoretical) 3

Credit hours (practical) 0

Course Prerequisites

Course Objectives

- 1 Understanding the students the basic concepts of ecology
- 2 Provide students with some of the necessary research and exploration skills
- 3 Enable students to identify the components of ecosystems
- 4 Introduce students to environmental pollutants and disposal methods
- 5 Provide the theoretical side and focus on the practical aspects of Applied

Intended Learning Outcomes

Knowledge and Understanding	 The diference between individuals, population, community and Ecosystem
	* classification of Ecology
	 composition of the ecosystem including biotic & abiotic factors
	* Food chains & food web and ecological pyramids
	* factors affect on distribution of living organisms
	* Ecological indicators and Biological interrelationships
	* Biodiversity of organisms
	* Types of pollutions
	* Nutrient cycling and pollution
Intellectual Skills	 The trade-off between the population and the community
	 Differentiation between the biotic and abiotic factors
	* Discover the dangers of pollutant
	* Correct reading food map
Professional Skills	* Design study check the difference betweenindividuals, population, community
	 Useing the food chains for obtaining the needed energy
	 Utilization the distribution of living organisms to Know the topography of ecosystem
	* Dealing with environmental pollutants and use them
	* Dealing with environmental pollutants and use them
General Skill	* Critical Thinking
	* Comparison between alternatives and decision-making
	* Presentation and interpretation of results

Course Contents

- 1 Introduction to Ecology& concept of ecology
- 2 $\,$ $\,$ the individuals ,population, community and Ecosystem
- 3 classification of Ecology
- 4 composition of the ecosystem including biotic & abiotic factors
- 5 Food chains & food web and ecological pyramids
- 6 factors affect on distribution of living organisms
- 7 Ecological indicators and Biological interrelationships
- 8 Biodiversity of organisms
- 9 Types of pollutions
- 10 Nutrient cycling and pollution

Teaching and Learning Methods

- 1 Lectures
- 2 Debate
- 3 Additional readings

Students Assessment

Assessment Method	<u>TIME</u>	MARKS
First hour exam	30minutes	15
Second hour exam	30minutes	15
Attendence		10
Research and Reports		10
Final exam	120minutes	50