

**Course Handbook**

Ministry of Higher Education and Scientific research

Salahaddin University- Erbil

College of Education/ Shaqlawa

Biology Department

Third Class Students

Subject: **Pollution**

Academic Year: 2022-2023

Lecturer's name:

Lec. Peshraw abdulkarem Othman

**Course Book**

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| **1. Course name** | Ecology | |
| **2. Lecturer in charge** | Lec. Peshraw abdulkarem othman | |
| **3. Department/ College** | Biology Dept./ College of Education/Shaqlawa | |
| **4. Contact** | E-mail: [beshroo.othman@su.edu.krd](mailto:beshroo.othman@su.edu.krd)  Tel: 00964 750 4558317 | |
| **5. Time (in hours) per week** | Total (7) hours weekly:  Theory (1) hrs.  Lab. (6) hrs. | |
| **6. Office hours** | 2 Hours per week | |
| **7. Course code** |  | |
| 8 .Course Description:  The purpose of this course is to provide an overview of pollution from the level of individual  organisms to populations, communities, ecosystems and the biosphere. It examines the  physical, chemical, and biological components of ecological interactions, air pollution and foot prints | | |
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| **15. Course Reading List and References**    1\Wildlife Habitat Management by Brenda C. McComb  ISBN: 9781439878569  Publication Date: 2015  2\ State Wildlife Management and a Conservation by Thomas J. Ryder  ISBN: 9781421424460  Publication Date: 2018  3\Behavioural Responses to a Changing World: Mechanisms and Consequences by Ulrika Candolin,  Bob B.M. Wong  ISBN: 0199602573  Publication Date: 2012  4\ Capitalizing on Nature: Ecosystems as Natural Assets by Edward B. Barbier  ISBN: 0521189276  Publication Date: 2011 | | |
| **16. The Topics (Theory)** | | **2 hours weekly** |
| **17. Examinations:**  Seasonal Examination & Final Examination | | |
| **18. Questions Example Design:**  Q1\ write about green house effect ?  Q2\define the Pollution ?  Q3\what’s mean contamination ?  Q4\write about temperature aversion?  Q5\How can we protect from Ultra-Violet ?  Q6\ What’s humans challenge for pollution ?  Q7\ write deference between pollution and contamination ?  Q8\ explain troposphere ?  Q9\How can extend temperature aversion ?  Q10\Who can energy allowed our life ?  Q11\Classify pollution?  Q12\Negative lapse rate?  Q13\Positive lapse rate?  Q14\foot prints?  Q15\environment problems?  Q16\Exponential growth?  Q17\Lithosphere?  Q18\ozone?  Q19\Air pollution?  Q20\Components of Air pollution problems ?  Q21\Androgenic air pollution?  Q22\ Types of air pollution ?  Q23\Primary pollutant?  Q24\ Too much Ultra-Violet result ?  Q25\Atmosphere ? | | |
| **19. External Evaluator**    I do approve the content of this course-book. It does cover the general concepts of general virology. The topics are broad and are aimed to equip students with required knowledge to enable them to understand the viruses concept equipment in latter stages. | | |