**Course Description Form**

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| 1. Course Name:
 |
| **Environmental pollution** |
| 1. Course Code:
 |
| **306CHEC** |
| 1. Semester / Year:
 |
|  Firs t semester/third stage |
| 1. Description Preparation Date:
 |
| 1/10/2024 |
| 1. Available Attendance Forms:
 |
| Weekly/ mandatory  |
| 1. Number of Credit Hours (30) / Number of Units (2)
 |
| 30 h- 2 unit  |
| 1. Course administrator's name (mention all, if more than one name)
 |
| Name: Wafaa Sh. Al-ZuhairiEmail: wafaashamkhi@uodiyala.edu.iq |
| 1. Course Objectives
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| **Course Objectives** | **1- Giving the student broad information about environmental pollution and knowing all the sources that lead to environmental pollution around us.****2- How the student knows how to treat pollution and get rid of its sources.** **3- Giving the student sufficient information about water pollution, soil pollution, and air pollution, knowing the chemical sources related to them, and how to get rid of harmful environmental pollutants in safe ways.** |
| 1. Teaching and Learning Strategies
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| **Strategy** | * Lectures using data show
* Oral explanation
* Illustration using white board and animated vedios
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| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1 | 2 |  | Sufficient information about the environment around us | Blackboard/Powerpoint | Daily exams and homework, in addition to monthly exams |
| 2 | 2 | Water Pollution | Adequate information about the sources of water pollution | = | = |
| 3 | 2 | air pollution | Sufficient information about air pollution around us | = | = |
| 4 | 2 | Oil pollution | Sufficient information about oil pollution and its impact on the environment | = | = |
| 5 | 2 | Radioactive pollution | Pollution resulting from radioactive elements | = | = |
| 6 | 2 | Climate change | Sufficient information about climate change and its impact on the environment | = | = |
| 7 | 2 | Heavy elements | Sufficient information about pollution resulting from heavy metals and its impact on the environment | = | = |
| 8 | 2 | First month exam | A theoretical exam in the subject mentioned above | = | = |
| 9 | 2 | Soil contamination | Soil pollution and what are the sources of this pollution | = | = |
| 10 | 2 | Renewable energy | Adequate information about renewable energy and the sources of this energy | = | = |
| 11 | 2 | Green buildings and their role in reducing environmental pollution | The role of green buildings in reducing environmental pollution | = | = |
| 12 | 2 | Depleted uranium | Pollution from depleted uranium | = | = |
| 13 | 2 | Water analyses | Sufficient information about water analyses | = | = |
| 14 | 2 | Noise Pollution | Sufficient information about noise pollution in the environment around us | = | = |
| 15 | 2 | Second month exam | A theoretical exam in the subject mentioned above |  |  |
| 1. Course Evaluation
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| Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc  |
| 1. Learning and Teaching Resources
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| Required textbooks (curricular books, if any) | Environmental Chemistry book / written by Gary Van Loon and Steven J. Duffy |
| Main references (sources) | Environmental pollution, its sources and typesScience and Technology Magazine |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites |  |