



وكالة الجامعة للشؤون التعليمية
البرامج الدراسية والتطوير

(5)

مختصر توصيف التلوث البيئي

Environmental pollution

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| | البيئي | : |
| | BIOL-242 | : |
| | - | : |
| | - | : |
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| | 2 | : |
| Module Title: | Environmental pollution | |
| Module ID: | BIOL-242 | |
| Prerequisite (Co-requisite) : | - | |
| Co-requisite : | - | |
| Course Level: | 4 th level | |
| Credit Hours: | 2 | |

:(Course Information) *

Module Description

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The course interested in studying some of the elements of environmental pollution such as solid, liquid and gaseous pollutants, noise and radioactive pollutants and their impact on the organism. Studying the source and effects of water pollutants, source and effects of air pollutants and their classifications, source and effect of soil pollutants, source of noise pollutants, and source and effect of ionizing radiation.

Module Aims

أهداف المقرر :

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| 1 | Studying the concept of environmental pollution and their elements. | |
| 2 | Studying the types of solid, liquid, and gaseous pollutants. | |
| 3 | Studying the source and effects of water pollutants. | |
| 4 | Studying the source and effects of air pollutants. | |
| 5 | Studying the source and effect of soil pollutants. | |
| 6 | Studying the source and effect of noise pollutants. | |
| 7 | Studying the source and effect of ionizing radiation. | |

Learning Outcomes:

مخرجات التعليم:

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| 1 | Knowledge about the environmental pollutants and their elements. | |
| 2 | Knowledge about the sources and effects of water, air, soil, noise, and radiation pollutants. | |
| 3 | Knowledge about the prevention and control of environmental pollutants. | |
| 4 | Knowledge about greenhouse effect, ozone depletion, photochemical smog, aerosols, and acid - rain. | |
| 5 | Knowledge about the concepts of nuclear chemistry and terms used in radiations ecology. | |
| 6 | Knowledge about the potential effect of various forms of pollution on public health. | |

Course Contents

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| ساعات التدريس (Hours) | الأسابيع (Weeks) | (Subjects) |
|--------------------------|---------------------|---|
| 6 | 3 | Water pollution: 1. Introduction. 2. Water pollutants: sources and effects. 3. Prevention and control of water pollution. |
| 10 | 5 | Air pollution: 1. Introduction. 2. Air pollutants and their classification. 3. Sources and effects of air pollutants. 4. Greenhouse effect. 5. Ozone depletion. 6. Photochemical smog. 7. Aerosols. 8. Acid - rain. 9. Control of air pollution. |
| 6 | 3 | Soil pollution: 1. Introduction. 2. Sources and effects of soil pollution. 3. Effects of soil pollutants. 4. Prevention and control of soil pollution. |
| 2 | 1 | Noise pollution: 1. Introduction. 2. Sources of noise pollution. 3. Control of noise pollution. |
| 4 | 2 | Radiation pollution: 1. Introduction. |

2. Concepts of nuclear chemistry and terms used in radiations ecology.
3. Sources of ionizing radiations.
4. Effects of ionizing radiations.

Textbook and References:

:

| ISBN | Publishing Year | Publisher | اسم المؤلف (رئيسي) Author's Name | Textbook title |
|----------------|-----------------|---------------------|--|---|
| 9789380428024 | 2010 | Narendra Pub | P.Panday, Bhola Mahato, R.K. Singh, L.B. Singh and B.N. Pandey | A Text Book of Environmental Pollution |
| | Publishing Year | Publisher | اسم المؤلف (رئيسي) Author's Name | Reference |
| 9788121923859 | 2012 | S. Chand Publishing | R K Khitoliya | Environmental pollution- Management and control for sustainable development |
| 10: 0521736692 | 2013 | Amazon | Marquita K. Hill | Understanding Environmental Pollution |

