**College:** Applied Science

**Department:** [Applied and Molecular Biology](https://ptuk.online/?page_id=11368)

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| course number | Course name | C.H | **Related to sustainability** (social, environmental, cultural, economic) |
| **15030430** | **Environmental cleanup and waste Management** | **3** | environmental |
| **15030431** | **Mycology** | **3** | environmental |
| **15030426** | **Pest management and control** | **3** | environmental, economic |
| **15030413** | **Environmental pollution and human health** | **3** | environmental, social |

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| **Course number** | **Course name** | **C.H** | **Description** |
| **15030430** | **Environmental cleanup and waste Management** | **3** | **This course includes methods of waste management and cleaning the environment from waste by chemical and biological methods, with a focus on the use of microbes in the air, soil, water, liquid and solid waste, and their role in dismantling these various chemicals in these media.** |
| **15030431** | **Mycology** | **3** | **It includes the study of organisms in the kingdom of fungi, especially what causes diseases to plants and animals. The course also deals with the use of fungi in biological control of various diseases and their application in the production of biological materials. In addition to its important role in analyzing the remains of living organisms, the cycles of chemical elements in the environment, and their symbiotic relationships with plants.** |
| **15030426** | **Pest management and control** | **3** | **This course aims to provide students with information about the negative effects of using chemical pesticides to control pests on the environment and how to manage them in order to achieve economic abundance of crops without negatively affecting the environment and public health, through the use of biological alternatives.** |
| **15030413** | **Environmental pollution and human health** | **3** | **This course covers the elements of the environment and the types and sources of chemical, physical and biological pollutants in the components of the environment such as water, air, soil and food and their impact on human health and related diseases and how to detect and reduce their impact. Studying the different types of fermentation and their role in the production of medical and industrial materials, in addition to acid fermentation and its importance in the food industry and the production of acids with industrial applications. It also teaches students how to use genetic engineering applications in modifying living organisms to become more effective and efficient in fermentation processes to produce biogas and get rid of pollutants. and environmental waste** |