Al-Balqa Applied University

Faculty of Agricultural Technology

Master of Science (M.Sc.) in Water Resources and Environmental Management

Study Plan/Comprehensive Program

The curriculum for the M.Sc. in Water Resources and Environmental Management degree consist of 33 credit hours (C.H.) distributed as follows:

**A. Obligatory Courses: 21 credit hours:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course No.**  | **Title** | **C.H.** | **Weekly hours** | **Pre-requisite** |
| **Lecture** | **Laboratory** |
| 504009731 | Water resources | 3 | 3 | - | - |
| 504009734 | Design of hydraulic structures | 3 | 2 | 3 | - |
| 504009721 | Unit process operation of water treatment | 3 | 2 | 3 | - |
| 504009722 | Water pollution control | 3 | 3 | - | - |
| 504009742 | Irrigation science theory | 3 | 3 | - | - |
| 504009797 | Project | 3 | 3 | - | - |
| 504129713 | Advanced biostatistics | 3 | 3 | - | - |

**B. Elective Courses: 12 credit hours to be chosen from the following:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course No.**  | **Title** | **C.H.** | **Weekly hours** | **Pre-requisite** |
| **Lecture** | **Laboratory** |
| 504009733 | Groundwater hydraulics | 3 | 3 | - | - |
| 504009741 | Advanced soil physics | 3 | 3 | - | - |
| 504009744 | Soil and water conservation | 3 | 3 | - | - |
| 504009746 | Environmental soil chemistry | 3 | 2 | 3 | - |
| 504009723 | Advanced waste management | 3 | 3 | - |  |
| 504009725 | Environmental impact assessment | 3 | 3 | - |  |
| 504124743 | Environmental biotechnology | 3 | 3 | - |  |

**C. Comprehensive Exam (504009798).**