

MSc. Lands and Water

College of Agriculture Sciences

King Faisal University

Program Name	MSc. Lands and Water
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1. Introduction

Since land and water are the most crucial elements in our live, the department intended offering this program, which covers the two vital areas lands and water sciences. The department of Environment & Agricultural Natural Resources started conducting this program in the Hijri year 1407 upon satisfying the qualified staff capability requirement, who have been capable of, teaching, advising and supervising all related scientific researches.

2. Program Information

Program Name	MSc. Lands and Water
College	College of Agriculture Sciences
Department	Environment & Agricultural Natural Resources
Track	Lands and Water
Level	Postgraduate
Degree	MSc
Years of Study	2 Years
Credit Hours	30 or 42
Language	English

3. Admission Requirements

The admission in the program demands fulfilling all requirements placed in graduate studies rules for Saudi universities; in addition to that, the program requires the following:

- Candidate must have a bachelor's degree in agricultural sciences and food from King Faisal University or equivalent; with a general assessment of not less than (very good). In certain circumstances and subject to the recommendation from the department council and the approval of the college council, the department may accept admitting the student who has received a good (conditional) with a condition that he must have achieved an average of very good in the courses of specialization during the bachelor's stage. The acceptance is final only after two semesters upon gaining a cumulative not less than (very good), and notify the College Deanship of Graduate Studies then.
- The applicant should pass the personal interview or any other examinations conducted by the department for this purpose, and then successfully passes an intensive program in

English for at least one full semester before the beginning of the study for the master's program.

- Candidate admission will not be considered as (final) until the completion of two major semesters and obtaining a cumulative average of at least (very good).
- Candidate must meet the conditions set by the college for admission such as exams, personal interviews and others.
- Candidate must have a good conduct.
- Candidate must be medically fit.
- Candidate must consider a full-time study mode. However, the faculty council may approve part-time work upon the recommendation of the relevant department's council, and if the student is an employee, the approval of his supervisor will be needed.

4. Study Plan

This program is offered by the Department of Environment and Natural Resources and grants a master's degree in the field of land and water sciences. The graduate courses offered by the department include a comprehensive package that provides the student with basic information in the direction in which he will specialize. The courses summarized as follow:

Compulsory courses:

All students enrolled for postgraduate studies in the department are required to study them compulsively and they are:

Course Code	Course Title	Credit Hours
1601-0154	Advanced environmental physics	3
1602-0154	Advanced environmental chemistry	3
1603-0154	Advanced soil fertility	3
1604-0154	Soil genesis and classification	3
1605-0154	Clay minerals	3
1606-0154	Physical chemistry of soil	3
1607-0154	Land reclamation	3
1608-0154	Soil surveying	3
1609-0154	Soil pollution	3
1610-0154	Soil water plant relationship	3
1611-0154	Desertification problems & control	3
1612-0154	Special topics in soil & water	3
1613-0154	Soil & water seminars	3
1614-0154	Irrigation technology	3
1615-0154	Drainage system for agricultural land	3
1616-0154	Computer application in irrigation	3
1617-0154	Well hydrology	3
1618-0154	Water quality and pollution	3
1619-0154	ground water exploration	3
1620-0154	Ground water flow in porous media	3
1621-0154	Water resources planning and management	3
1622-0154	Agro-meteorology	3
1623-0154	Microclimatology	3
1624-0154	Thesis	6

Supervision

The student supervisory committee shall select the courses required to complete the Master's degree from among the postgraduate courses which fit student's area, either within the department or from outside, according to the objectives and needs of the study.