

Botany program's description

Identification Card	
Program:	Botany
Program Code:	BOT
Qualification Level:	6 (Bachelor)
Department:	Botany and Microbiology
College:	Science
University:	King Saud University
Program's Main Location:	Al Daryah, Riyadh
Program's Branches:	N/A
Total credit hours:	136
Exit Points:	N/A

Botany Program's Mission

Providing distinguished education and advanced scientific research to meet the needs of the community through an innovative and stimulating academic and administrative environment, with the optimal use of technology and local and international partnership in the field of Botany.

General description

The Botany program was established to provide students with sound plant biology knowledge and understanding. The program is designed to encompass diverse fields of fundamental plant study that cover broad concepts of general plant biology, plant taxonomy, physiology, cell and tissue organization, genetics, molecular biology, ecology, environment, biodiversity of plants, flora, and anatomy. The program aims to achieve its mission through quality education, innovative scientific research, and community service. It prepares students for research, education, and management careers, provides human resources to government organizations, creates job opportunities, and promotes plant biodiversity conservation.

The aim is to achieve sustainable development targets and prepare youth in plant sciences. This includes educators, administrators, herbarium specialists, laboratory technicians, research assistants, botany researchers, and technicians from various ministries, including the Ministry of Higher Education, Environment, Water, and Agriculture, the National Authority for Wildlife Maintenance, Agriculture, and the General Authority for Meteorology and Environmental Protection.

Botany program's study plan

The Botany program's study plan is structured across nine levels, systematically building students' knowledge, skills, and values in Botany and related disciplines. In the initial levels, students engage in foundational courses such as Differential Calculus, General Chemistry, and English Language, alongside introductory subjects like IT Skills and Entrepreneurship. As they advance, specialized courses like General Botany, Principles of Flowering Plants, Taxonomy, Plant Ecological Factors, Cytology, Plant Anatomy, and Plant Physiology provide training in practical laboratory techniques. Advanced levels focus on principles of plant growth and its regulators and valuable methods in environmental science. pursuing a significant research project and extensive training in field trips. Electives throughout the curriculum allow for customization and exploration of specific interests within the field, ensuring that graduates are equipped for various professional opportunities in Botany.

Facilities and Equipment

The Botany program offers 30 modern classrooms with audiovisual facilities and capacities of 30 to 50 students, fostering an interactive learning environment. It features 18 well-equipped laboratories stocked with essential tools and materials for practical sessions, supported by a Departmental Laboratory and Safety Committee that ensures regular maintenance and updates. Safety is prioritized, with first-aid kits available in all laboratories, enhancing the overall educational experience.

Jobs for which students are qualified

Graduates of the botany program can pursue a wide range of careers, including positions as educators, administrators, herbarium experts, laboratory technicians, research assistants, technicians, researchers in botany, and positions in various government departments. Additionally included are the National Authority for Wildlife, Agriculture, and the National Center for Environmental Compliance, as well as the Ministry of Higher Education, Environment, Water, and Agriculture.

Program Description's Approval Data

Council / Committee	Botany and Microbiology department
Reference No.	Program Description 2024
Date	10/ 2024