

PhD in Botany

Program's description

Identification Card

Program:	PhD in Botany
Program Code:	BOT
Qualification Level:	8 (PhD Degree)
Department:	Botany and Microbiology
College:	Science
University:	King Saud University
Program's Main Location:	Al Daryah, Riyadh
Program's Branches:	NA
Total credit hours:	25
Exit Points:	NA

PhD in Botany's Mission

To promote the highest quality graduate education and build scientists and research scholars with advanced knowledge to improve society through service and collaboration.

General description

The program equips students to become proficient scientists in botany, using advanced methodologies in molecular biology, plant physiology, and genetics. It emphasizes practical training and interdisciplinary research collaborations, preparing graduates for significant scientific contributions.

Study plan

Duration: Spanning over six levels of study.

Core Courses: Cover topics such as Advanced Plant Anatomy, Plant and Habitat Features in Saudi Arabia, Advanced Stress Physiology, and a Seminar.

Level	Course Code	Course Title	Credit Hours
	BOT 611	Advanced Plant Anatomy	2
	BOT 641	Plant and Habitat Features in Saudi Arabia	2
Level 1	BOT 651	Gene Regulation and Development Patterns	2
	BOT 671	Advanced Stress Physiology	2
	BOT 691	Seminar	1
Level 3	COM 700	Comprehensive Exam	0
Level 4	BOT 699	Research Proposal Preparation	1
Levels 5 & 6	BOT 700	Thesis	6

Elective Courses: 9 credit hours in Level 2, covering topics in Experimental Taxonomy, Genetic Engineering, and Plant Cell Metabolism.

Course Code	Course Title	Credit Hours
BOT 621	Advanced Experimental Taxonomy	2
BOT 642	Seed Ecology	2
BOT 652	Introduction to Genetic Engineering	2
BOT 672	Advanced Study in Growth Regulators	2
BOT 673	Plant Cell Metabolism	2
BOT 674	Seed Physiology	2
BOT 692	Special Topics	3

Comprehensive Exam: Conducted in Level 3, followed by research proposal preparation and the execution of the research thesis.

Total Credit Hours: 25 hours.

Facilities and Equipment

The PhD in Botany program provides 30 modern classrooms equipped with audiovisual facilities, accommodating 30 to 50 students, enhancing an interactive learning environment. It also includes 20 well-equipped laboratories stocked with essential tools and materials for practical sessions, supported by a Laboratory and Safety Committee that ensures regular maintenance and updates. Safety is prioritized with first-aid kits available in all laboratories, enriching the overall educational experience.

Jobs opportunities

Research Scientist, Environmental Consultant, Plant Breeder, Ecologist, Botanist, and positions in education and ministries like the Ministry of Environment and Agriculture.



King Saud University
Botany and Microbiology Department

Program Description's Approval Data	
Council / Committee	Botany and Microbiology department
Reference No.	Program description 2024
Date	October 2024