Sanaa University
Faculty of Agriculture, Foods, and Environment
Department of Plant Protection

Department Mission:

The department aspires to prepare qualified cadres capable of competing in the local and regional labor market and meeting the research needs necessary for the sustainable development of human and natural resources in the field of plant protection. The department also aims to link with the local community by providing scientific and research support to those working in agriculture and solving agricultural problems in the field of plant protection.

Department Vision:

Excelling in teaching, learning, scientific research, and community service in the field of plant protection.

Department Aims:

Preparing qualified and competent cadres with scientific and practical expertise to achieve the highest standards of quality and excellence by providing a conducive environment for higher education and scientific research.
Conducting applied scientific research and studies to address the challenges faced by the agricultural sector in the field of plant health.
Contributing to community service by diagnosing the causes of plant diseases and pests, analyzing pesticide residues and their environmental impact, promoting the beekeeping sector and its products, and offering tailored scientific consultations.
Engaging faculty members in departmental seminars to foster knowledge and expertise exchange, leveraging discussions to pique the interest of faculty members and teaching assistants, instilling in students scientific thinking and discussion methodologies, and cultivating their critical research evaluation skills.
Equipping laboratories with all necessary resources to streamline the practical aspects of various courses, upgrading lecture halls and outfitting them with audiovisual equipment, enhancing the departmental library by stocking it with the latest specialized books and periodicals, and connecting it to the internet.
Formulating integrated management programs for the causes of plant diseases and pests in the local environment and devising modern, innovative, and non-traditional control methods.
Establishing postgraduate programs, commencing with a master's degree in economic insects and agricultural zoology; plant sciences and its diseases; and pesticide and environmental pollution sciences.
Emphasizing collaboration with various research institutions and the local private sector to hold specialized conferences, seminars, and scientific workshops. This collaboration aims to develop the fields of plant protection and higher education, contribute to enriching scientific research in crop protection and environmental preservation, and undertake research projects that help solve environmental problems and optimize pesticide use. Furthermore, the department keeps pace with modern developments and trends in pest control methods.

Brief about the department

The department was established in the academic year 1996–1997 to address the growing need for well-qualified scientific cadres capable of assuming the responsibilities of the agricultural renaissance in the Republic of Yemen, particularly in the field of plant protection. The department focuses on three main areas: 1) economic entomology and agricultural zoology; 2) plant sciences and its diseases; and 3) pesticide and environmental pollution sciences.
The department currently has sixteen teaching staff, including six professors, five associate professors, and five assistant professors specializing in the aforementioned specializations. In addition, there are a number of teaching assistants, including technicians, instructors, demonstrators, and those abroad on scholarships.
The department has its own beehive building, which has enabled the training of cadres in beekeeping and honey production, as well as other bee products such as wax, royal jelly, and propolis, highlighting their therapeutic importance. In addition, the department has the capacity to establish and manufacture beehives.

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Study Pan of the Plant Protection Program

(PLP)

First Level Courses	
First Semester	Second Semester
Arabic Language (1)	Physics & Meteorology
Islamic Culture	Principles of Statistics
General Chemistry	Organic Chemistry
General Botany	Principles of Agricultural Economics
Mathematics	General Zoology
Agriculture in Yemeni Environment	Principles of Ecology
National culture	Arabic Language (2)
Geology	Conflict with the Israeli enemy

Second Level Courses	
First Semester	Second Semester
Soil Fundamentals	Principles of Food Science
General Microbiology	Principles of Crops Protection
Biochemistry	English Language (2)
Principles of Animal Production	Principles of Genetics
English Language (1)	Principles of Horticulture
Principles of Crops Production	Plant Physiology
Principles of Agricultural Engineering	Principles of Human Nutrition
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Career Opportunities

Potential Career Opportunities for Graduates:

In the Ministry of Agriculture and its affiliated bodies and institutions
As a plant protection researcher in research centers and universities
As a plant quarantine officer at various customs ports
As a honeybee breeding and production specialist and in apiary management
In the private sector, companies investing in the agricultural sector
Organizations and funds implementing agricultural projects
As a specialist in the control of grain pests, stored materials, and public health pests
As an advisor for companies working in the field of pesticide import and trade.

Community services

Community services provided by the department include the following:
Organizing training courses and workshops in the fields of beekeeping, pest control, and plant diseases.
Conducting examinations to identify the causes of plant diseases and pests and effective control methods.
Providing consultations in the field of plant protection to relevant entities in the country and private agricultural sectors.
Conducting research funded by both the public and private sectors to develop innovative solutions to address challenges related to plant diseases, pests, and their effective control.

Graduate Attributes:

Upon successful completion of the Plant Protection program, the graduate will be able to:
Demonstrate knowledge and understanding of the role of agricultural engineers in society.
Utilize and manage available agricultural resources.
Manage agricultural facilities related to plant protection and conservation.
Utilize appropriate technologies to address agricultural problems, particularly in the field of plant protection.
Effectively demonstrate professional skills.
Preserve natural resources and biodiversity.
Demonstrate a high level of awareness of legal, ethical, and social issues related to agriculture.
Demonstrate the ability to develop their performance and be qualified for self-directed and continuous learning.
Pursue postgraduate studies and engage in research.
Employ appropriate pest and disease control methods, prioritizing environmentally friendly approaches to minimize environmental impact.
Develop plans to prevent the spread of pests and diseases.
Plan and implement an integrated pest and disease management program.
Keep pests and diseases below the economic threshold of damage.
Assess the risks of pesticides to non-target organisms.