



# DEPARTMENT OF PLANT PROTECTION

Adana 2023 - 2024

# DEPARTMENT OF PLANT PROTECTION

The Department of Plant Protection was established as the Plant Protection Rostrum on 17.03.1970 and then turned into the Department of Plant Protection in 1982.



- ▶ Undergraduate education started in 1980-1981 with 11 students. Master and Doctoral education is also provided in the department under the Institute of Natural and Applied Sciences, courses are also open to students of other departments.

	Number of graduates	Those continuing education	Number of courses offered by the department
<b>Under graduate</b>	1311	383	60 compulsory <u>52 optional</u> 112 totally
<b>Master science</b>	382	105	73
<b>PhD</b>	197	43	52

Since the department was established, research and works have been carried out on insects, mites, nematodes, viruses, viroids, bacteria, fungi and weeds that cause significant losses in plants, especially citrus fruits, cotton, grains, fruit-vineyards and vegetables, which are the important cultural plants of our region.

- ▶ The most suitable control methods against the agents, which cause significant yield losses in agricultural areas and damage to a extent that limits agricultural production, are being researched and put into practice, taking into account environmental pollution, natural balance and economy.

- ▶ No matter how much the product obtained per unit area is increased with modern agricultural techniques, unless a conscious struggle is made, a large part of the product is damaged by diseases (**fungi, bacteria, viruses, etc.**), pests (**insects, mites and nematodes**) and weeds.

- ▶ Product loss caused by these diseases, pests and weeds is at a very high level of 25-30 % on average in the world.
- ▶ In order to prevent these losses, plant protection procedures must be carried out in the most appropriate way. DEPARTMENT OF PLANT PROTECTION, which has academic staff specialized in their fields, is working to find solutions to these problems.

# PLANT PROTECTION

```
graph TD; A[PLANT PROTECTION] --> B[Entomology]; A --> C[Phytopathology];
```

## Entomology

- Insects
- Mites
- Nematodes

## Phytopathology

- Viruses
- Viroids
- Bacteria
- Fungi
- Weeds



# Study Subjects

## Department of Entomology

- ▶ Research is carried out on identification, diagnosis and biology of insect, mite (spider) and nematode species that are harmful in agricultural areas and the development of integrated pest management methods against them.

## Department of Phytopathology

- ▶ Disease agents as such viruses, bacteria, fungi that cause damage in agricultural areas, as well as weeds and their control are investigated.
- ▶ In addition, researches are carried out to produce virus-free citrus saplings and develop of plant varieties resistant to diseases, pests and environmental factors using biotechnological methods.

# LABORATORIES

## Department of Entomology

- 1) Acharology
- 2) Biological control
- 3) Insect biotechnology
- 4) Vegetable pests
- 5) Industrial plant pests
- 6) Cereal pests
- 7) Nematology
- 8) Citrus pests

## Department of Phytopathology

- 1) Bacteriology
- 2) Biotechnology
- 3) Herbology
- 4) Mycology
- 5) Citrus diseases
- 6) Virology

# Laboratories







## Contributions of our Department to Country's Agriculture and Çukurova Region

- ▶ Since its establishment, the plant protection department has adopted the principle of solving the plant health problems encountered in the Çukurova region. To solve these problems, it has carried out many national projects with institutions such as The Scientific And Technological Research Council of Turkey (TÜBİTAK) and State Planning Organization (DPT). It has also successfully completed international projects.
- ▶ Department contributed to the world science and the Turkish economy publishing the results of these projects in both national and international journals, symposiums and congresses

# J O I N T P P O R T B I T I E S

- ▶ Ministry of Agriculture,,
- ▶ Provincial/District Directorate of Agriculture
- ▶ Plant Protection Branch Directorate  
((Including internal quarantine)
- ▶ Quarantine Directorate  
(External quarantine - Exported and imported products)
- ▶ Research institutes,
- ▶ Regional Agricultural Protection Research Institutes
- ▶ Agricultural Research Institutes
- ▶ Faculty of Agriculture, Departments of Plant Protection
- ▶ Agricultural Chemical Companies
- ▶ Seed Production Companies
- ▶ Insect producing companies - Biological control
- ▶ Disinfestation Companies
- ▶ Environmental Health Disinfestation
- ▶ Agricultural Consultancy Companies
- ▶ Private Agricultural Production Company and Greenhouses
- ▶ Pesticide Companies

## DEPARTMENT OF ENTOMOLOGY ACADEMIC STAFF STUATION

	Lecturer	Research Assistant
Acarolgy	2	0
Biological Control	1	0
Insect Biotechnology	1	1
Vegetable pests	1	0
Industrial plant pests	1	0
Cereal pests	1	0
Nematology	2	1
Citrus pests	1	1
<b>Total</b>	<b>10</b>	<b>3</b>



## DEPARTMENT OF PHYTOPATHOLOGY ACADEMIC STAFF STUATION

	Lecturer	Research Assistant
Bacteriology	1	0
Biotechnology	1	0
Herbology	1	1
Mycology	2	1
Citrus Viruses	2	1
Virology	3	0
<b>Total</b>	<b>10</b>	<b>3</b>

## PLANT PROTECTION GENERAL STAFF STAFF STUATION

	Entomology	Phytopathology
Lecturer	10	10
Research Assistant	3	3
Administrative staff		2
Servant		2
Driver		1

**TOTAL STAFF 31**

# PLANT PROTECTION DEPARTMENT PHYSICAL CONDITION

- ▶ Two blocks of buildings with a total of 5 floors
- ▶ 3 classrooms
- ▶ 5 male-female WC
- ▶ 14 laboratories
- ▶ 2 application laboratories
- ▶ 3 meeting rooms
- ▶ 1 seminar hall
- ▶ 1 library
- ▶ Numerous climate chamb



ÇUKUROVAUNIVERSITY

SECTION LAND

Google Earth

Görüntü Tarihi: 15/9/2023 -37°02'56.64"K 35°32'34.76"D -yükseklik: 0 m göz hizası: 9.75 km



# SECTION APPLICATION FIELD



# SECTION APPLICATION FIELD



# SECTION APPLICATION FIELD





Our department has been

**accredited**

for the period of

**28.03.2022 - 30.09.2024.**

**It is the first accredited Plant  
Protection Department in Turkey.**