

Program Learning Outcomes

Knowledge and Understanding

K1	List basics and fundamentals associated with agricultural sciences.
K2	List the soil fertility factors and its physical and chemical properties necessary to improve the agricultural production.
K3	Recognize the field crops, horticultural crops and agricultural pests.
K4	Describe the plant propagation methods and both agricultural practices and farm machineries required for plant production.
K5	Describes plant pathological symptoms and treatment methods / Nutritional deficiencies / methods of transmission and spread of agricultural pests / non-insect animal pests / machinery used in pest control and its functional parts.
K6	Mention the economic crop pests in Qassim and Saudi Arabia / Environmental conditions leading to increased spread of various pests.

Skills

S1	Evaluate the plant production / plant protection methods according to environmental, moral, social and Islamic considerations.
S2	Represent data graphically and analyze the results of agricultural experiments.
S3	Perform lab experiments and field operations that related to plant production/protection correctly.
S4	Explain the effect of different factors related to production and quality of pastures, field and horticultural crops.
S5	Design Agricultural systems to maximize utilization of different agriculture production components.
S6	Identify the different pests and disease that attack plants, their symptoms, and the control methods.
S7	Apply good practices for handling, transporting, storage and the usage of pesticides / IPM / principles of honey bee and silkworms care.

Values, Autonomy, and Responsibility

V1	Illustrate the ability to work in teams, communicate with others, and take responsibility.
V2	Write reports that cover different aspects of plant production/ protection in a correct way linguistically and scientifically.

Both tracks

Plant production

Plant protection