

Curriculum of Horticultural Engineering BSc

Botany I.-II.

Chemistry

Plant physiology

Genetics, biotechnology

Natural resources

Agrochemistry

Agrometeorology

Water management

Microbiology and tissue culture

Environmental and nature protection

Biometrics

Physics

IT

Basic technical knowledge

Precision gardening tools

Environmental management, sustainable development

Economics

Agricultural economics

Agrarian and property policy

Agricultural and economic law

Cultivation

Plant production

Animal husbandry

Organic farming

Soil science

Basic ornamental cultivation

Open field ornamental cultivation

Herbs and spices cultivation

Basic knowledge of fruit growing and nursery school

Fruit growing technologies

Basics of viticulture

Viticulture technology

Basics of vegetable growing

Open field vegetable growing

Plant protection I.-II.

Food safety knowledge

Sectoral work organization and economics

Household farming

Integrated plant protection

Marketing

Quality management

Finance and Accounting

Agronomy

Business Economics

Specializations for the horticulture sectors - GREEN INDUSTRY AND PRECISION HORTICULTURAL specialization (can be selected independently)

Application of ornamental plants

Establishment and maintenance of green surfaces

Sustainable vegetable production

Small-scale vegetable cultivation

Integrated fruit growing

Precision gardening technologies

Integrated viticulture

Functional food production

Specializations for the horticultural sectors – ORNAMENTAL GARDENING AND PLANT APPLICATION specialization

Dendrology

Growing ornamental plants in greenhouses

Establishment and maintenance of green surfaces

Application of ornamental plants

Optional subjects for the ORNAMENTAL GARDENING AND PLANT APPLICATION specialization (8 credits)

Outdoor cultivation of other vegetable species

Precision greenhouse vegetable cultivation

Small-scale vegetable cultivation

Sustainable vegetable production

Cultivation of apples and berries

Cultivation of stone and shell fruits

Pruning of fruit trees

Fruit storage and commercialization

Knowledge of grape varieties

Cultivation of table grapes

Special methods of grape cultivation

Wine tourism

Specializations for horticultural sectors - SUSTAINABLE VEGETABLE GROWING specialization

Outdoor cultivation of other vegetable species

Precision greenhouse vegetable cultivation

Small-scale vegetable cultivation

Sustainable vegetable production

Optional subjects for the SUSTAINABLE VEGETABLE GROWING specialization (8 credits)

Dendrology

Growing ornamental plants in greenhouses

Establishment and maintenance of green surfaces

Application of ornamental plants

Cultivation of apples and berries

Cultivation of stone and shell fruits

Pruning of fruit trees

Fruit storage and commercialization

Knowledge of grape varieties

Cultivation of table grapes

Special methods of grape cultivation

Wine tourism

Specializations for horticultural sectors - INTEGRATED FRUIT GROWING specialization

Cultivation of apples and berries

Cultivation of stone and shell fruits

Pruning of fruit trees

Fruit storage and commercialization

Optional subjects for the INTEGRATED FRUIT GROWING specialization (8 credits)

Dendrology

Growing ornamental plants in greenhouses

Establishment and maintenance of green surfaces

Application of ornamental plants

Outdoor cultivation of other vegetable species

Precision greenhouse vegetable cultivation

Small-scale vegetable cultivation

Sustainable vegetable production

Knowledge of grape varieties

Cultivation of table grapes

Special methods of grape cultivation

Wine tourism

Specializations for the horticultural sectors - VINE GROWING AND WINE TOURISM specialization

Knowledge of grape varieties

Cultivation of table grapes

Special methods of grape cultivation

Wine tourism

Optional subjects for the VINE GROWING AND WINE TOURISM specialization (8 credits)

Dendrology

Growing ornamental plants in greenhouses

Establishment and maintenance of green surfaces

Application of ornamental plants

Outdoor cultivation of other vegetable species

Precision greenhouse vegetable cultivation

Small-scale vegetable cultivation

Sustainable vegetable production

Cultivation of apples and berries

Cultivation of stone and shell fruits

Pruning of fruit trees

Fruit storage and commercialization

Others:

Transversal knowledge I.-II.-III.

Physical education I.

Physical education II.

Foreign language 1

Foreign language 2

Thesis writing I.-II.-III.

Semester practice

Practice I.-II.-III.-IV.

Practical horticultural lessons I-II.

Competency test I-II.

Professional seminar

Optional subjects min. 10 kr