



NATURE is
OUR FUTURE

Mendel
University
in Brno



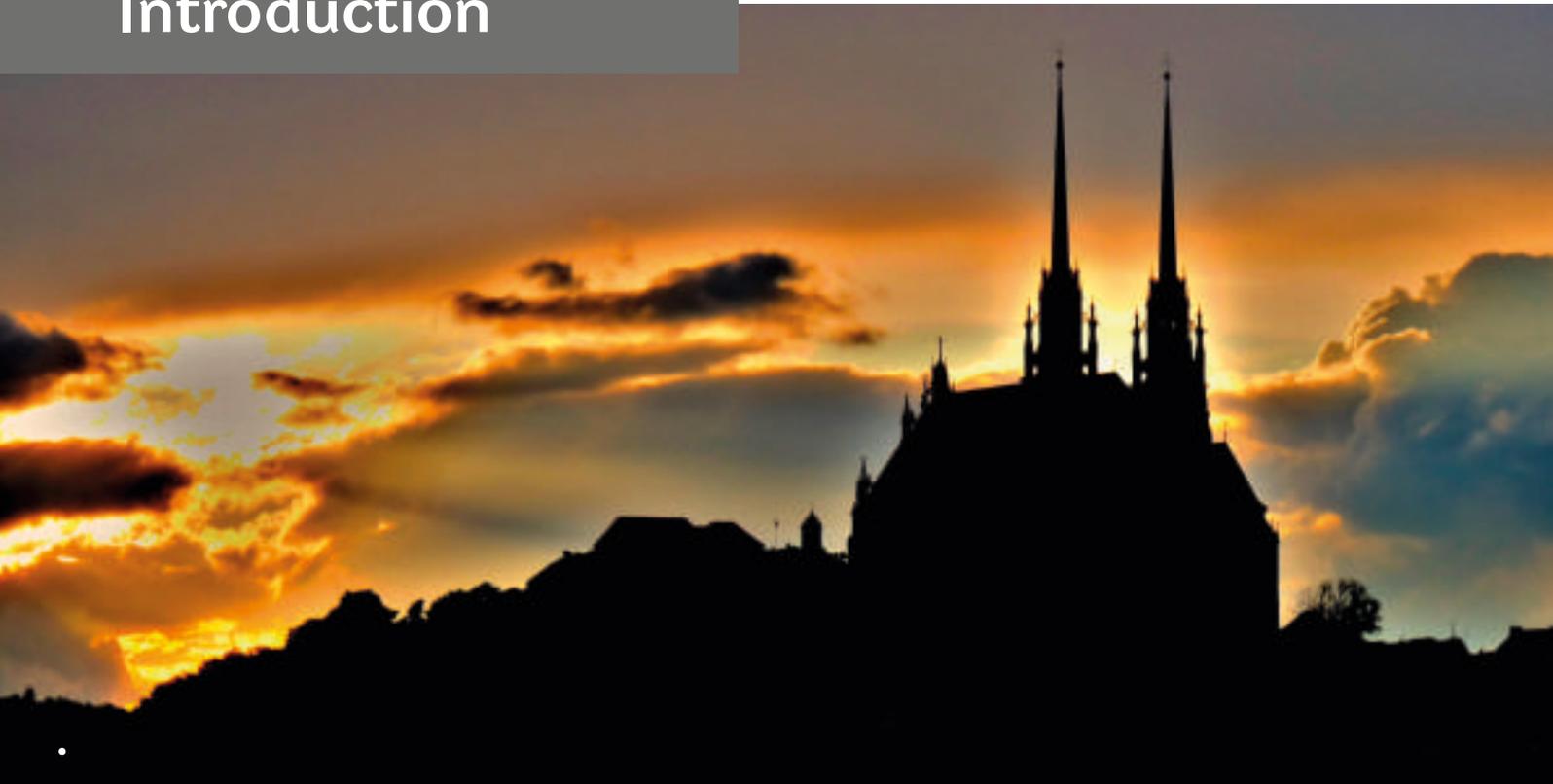
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Introduction



Brno

Brno, with the population of nearly 370,000, is the second largest city in the Czech Republic. It lies in the central part of Europe, and other important European capitals are situated within its two hundred-kilometre radius: Prague, Vienna and Bratislava. The international airport in Brno serves regular flights. Brno is the metropolis of Moravia and a great tourist centre for all who want to explore natural and cultural beauties of the South Moravian region.

The protected area of the Moravian Karst (Moravský kras) lies in the north of Brno and famous Moravian vineyards with their typical wine cellars stretch to the south. The city is surrounded by beautiful mixed forests, which offer many opportunities for hiking and cycling. Brno prides itself on many notable historic sites that show evidence of its rich cultural history. Once established as a settlement of merchants eight centuries ago on the junctions of the rivers Svatka and Svitava, it withstood the pressure of both the Hussite and Swedish besiegement, witnessed Napoleon's military expedition to Slavkov, bore the cruel consequences of the Austrian defeat in the Battle of the Three Emperors, became an industrial centre of the Habsburg monarchy called "the Austrian Manchester" and, in the twentieth century, gained the character of a modern city thanks to the construction of new buildings in the functionalist style. The most important example of modern architecture in Brno is the Tugendhat Villa – a historic site listed in the UNESCO World Cultural Heritage List.

Nowadays, Brno is a seat of universities and important judiciary institutions. It offers many possibilities of cultural enjoyment in its numerous theatres, museums, cinemas and clubs. The Brno Exhibition Centre with its eighty-year tradition is a venue of many international trade fairs, exhibitions and congresses, and as such plays a significant role in the social and economic life of the whole city. The City of Brno regularly hosts various cultural events, as well as some notable sporting events (Brno Grand Prix of road motorcycles). Brno is also a city of modern shopping and entertainment centres.

Source: www.brno.cz

Mendel University

Mendel University in Brno was established in 1919 and presently has five faculties and one institute:

- Faculty of Agronomy
- Faculty of Forestry and Wood Technology
- Faculty of Business and Economics
- Faculty of Horticulture
- Faculty of Regional Development and International Studies
- Institute of Lifelong Learning

In order to train students, to conduct research and to verify theoretical knowledge in practice the University has the University Farm in Žabčice and the Forest Training Centre in Křtiny at its disposal. The complementary teacher training in technical subjects, courses for job trainers, education of senior citizens within the University of the Third Age and educational courses tailored to the needs of general public are all arranged by the Institute of Lifelong Learning, established in 2003. Both the botanical garden and the arboretum frequently serve teaching purposes. Automated systems of administration, in the forms of the University Information System and the economic agenda system, are operated by the Institute of Informatics and Communication Technologies.

At the moment, there are about 11,000 students studying at all the five faculties. The University has adopted the European Credit Transfer System (ECTS) and some of the programmes are offered in English.

Facilities at the University

- Accommodation for all international students
- Catering in the central university cafeteria
- International Summer School organised every year
- Social events for international students all year round
- Sporting facilities and a gym
- Ski courses in winter and canoeing courses in summer
- International Student Club (ISC MENDELU)
- Botanical Garden and Arboretum
- University Farm in Žabčice
- University Forest Training Centre in Křtiny

Organization of Studies

The academic year is divided into two semesters (winter and summer semesters), each of them lasting 14 teaching weeks. Each semester is followed by a four- to five-week examination period. Most of the courses are compulsory. Students can study their subjects in Czech or English. Each faculty of Mendel University offers selected teaching programmes in English, and the Faculty of Regional Development and International Studies provides all its teaching programmes in English.

All the faculties offer three-year Bachelor study programmes. Successful students can then continue their studies in the two year Master's programme. Graduates are awarded the degree of "Inženýr" (i.e. Engineer, in abbr. Ing.). To finish their studies students must pass the final state exam and defend their final year dissertation.

The faculties also organise Doctoral study programmes which take three years of studies. Participants in these programmes are graduates from the Master's programme. The programme is completed by the Ph.D. state exam and defence of the Ph.D. thesis.

In addition it must be mentioned that the University is also participating in many academic exchange programmes and organizing summer courses, workshops, conferences and seminars. Most of these activities are in English.



Faculty
of Agronomy

Mendel
University
in Brno



EDUCATION with
TRADITION

About the Faculty



The Faculty of Agronomy is one of the leading educational institutions in the sphere of Czech agricultural science. In its modern laboratories the academic staff deal not only with crop production and animal breeding but also with food production and quality, agroecology, renewable energy resources, agricultural mechanization etc. The faculty was established in 1919 as the new agricultural university.

Departments

- Department of Plant Biology
- Department of Applied and Landscape Ecology
- Department of Agrosystems and Bioclimatology
- Department of Crop Science, Breeding and Plant Protection
- Department of Agrochemistry, Soil Science, Microbiology and Plant Nutrition
- Department of Animal Nutrition and Forage Production
- Department of Animal Morphology, Physiology and Genetics
- Department of Zoology, Fisheries, Hydrobiology and Apiculture
- Department of Molecular Biology and Radiobiology
- Department of Agricultural, Food and Environmental Engineering
- Department of Engineering and Automobile Transport
- Department of Food Technology
- Department of Animal Breeding
- Department of Chemistry and Biochemistry
- Department of Physical Training

Research & Development

Research at the Faculty of Agronomy focuses above all on the following areas:

- Study of phytohormones, programmed plant cell death, production of protective substances as a reaction of plants to stress. The utilization of biochemical and molecular markers for the study of genetic diversity and marker mapping for barley characteristics. Research in content substances of barley and hops.
- Landscape ecology and environmental science, water management and waste management and clean production.
- Precision agriculture, harvest remainders management, impact of the climate change on the spread of selected species of pests and diseases, causes and consequences of drought.
- Soil microbiology, physical and analytical characteristics of soils, plant nutrition.
- Quality and production of grasslands, farm animal husbandry and nutrition, forage conservation, effect of nutrition on animal products quality, production of functional foods.
- Research of morphological, physiological and immunological characteristics of protective mechanisms of mammary glands in cows. Internal environment and livestock efficiency. Study of genetic polymorphisms, gene expression in pigs, genetic markers association and economically important characteristics of cattle and pigs.
- Ecology and the importance of bumble-bees and solitary bees.
- Fish culture and the effects of anthropogenic activities on changes of aquatic environment.
- Radiocesium migration in the ecosystem.
- Food quality – physical, chemical, sensory, microbial.

The faculty includes several top quality sections, for example the Department of Chemistry and Biochemistry studies tumour diseases, especially their prompt diagnosis (the research is conducted in cooperation with other universities and hospitals).

A similar section can be found at the Department of Engineering and Automobile Transport, which is equipped with a special engine testing room. It is used for testing all types of vehicles ranging from harvesters to Formula 1.

At the Department of Zoology, Fisheries, Hydrobiology and Apiculture the significance of insects in human nutrition is studied.

Study programmes in English

General Agriculture

Qualification awarded: Bachelor's degree (Bc.)

This programme is intended for applicants who want to acquire a general view of animal breeding, plant production and mechanization. During the study the students are acquainted with the complex area of agricultural primary production, business management and manufacturing of animal and plant products. Also included in the curriculum are the strategies that should lead to sustainable development of agriculture using economic instruments and technologies. The graduates are able to look for their jobs not only in regional agriculture but also nationally and internationally.

The competences are – the graduates will be able to: actively influence economic results of an agricultural company, suggest economic solutions for an agricultural company, utilize the knowledge of plant production and animal husbandry, offer agricultural commodities on European markets, utilize the knowledge of mechanization procedures in agricultural production, and apply the knowledge of the environment in farming practice.

Compulsory subjects

- Agricultural Microbiology
- Agrochemistry and Plant Nutrition
- Anatomy and Histology of Animals
- Animal Breeding
- Bioclimatology
- Biochemistry - lecture
- Biochemistry - seminar
- Business Economics
- Crop Science
- Farm Animal Husbandry
- Fodder Production
- General Plant Production
- Genetics
- Horticulture
- Inorganic and Organic Chemistry - lecture
- Inorganic and Organic Chemistry - seminar
- Mechanisation
- Nutrition and Feeding of Farm Animals
- Plant Anatomy and Morphology
- Plant Physiology
- Plant Protection
- Reproduction of Farm Animals
- Rudiments of Higher Mathematics
- Soil Science
- Systematic Botany
- Technology of Food Products
- Vocational Placement (2 weeks)
- World Language for Specific Purpose
- Zoohygiene and Disease Prevention
- Zoology
- Bachelor Thesis

Agricultural Chemistry

Qualification awarded: Doctoral degree (Ph.D.)

The aims and objectives of the study are as follows: to develop students' knowledge of chemical, biochemical, environmental and agricultural sciences in order to understand metabolic processes in living organisms and in the environment, to familiarize students with chemical and biochemical principles of the processes and their influence on metabolic pathways in organisms, to teach and promote modern instrumental analytical methods for isolation, identification and determination of chemical compounds related to the processes that are investigated, monitored and controlled, to teach and promote qualitative and quantitative techniques in order to give students modern and perspective tools for processes in living organisms and environment and for risk assessment, to produce highly educated and skilled experts with good knowledge of foreign languages to be effective in the management of national R&D institutions in agricultural, food and pharmaceutical area, chemical and biochemical laboratories, industrial and regional control bodies and institutions dealing with environmental sciences and even institutions on the EU level.

In compliance with their individual study plans, students are required to complete at least: 1 compulsory and 3 optional courses including a foreign language, publish at least 3 original scientific papers in respected international scientific journals with $IF > 0$, pass the Ph.D. state examination and defend the Ph.D. thesis.

Molecular Biology and Genetics of Animals

Qualification awarded: Doctoral degree (Ph.D.)

The aims and objectives of the study are as follows: to develop students' knowledge in areas of specialization including animal genetics, molecular biology, bioinformatics, population genetics, structural and functional genomics of farm animals, gene mapping and sequencing, DNA polymorphism detection and genetics of food resources of animal origin, to make significant future contributions in research in molecular biology and genetics to teach future generations of competent and productive research scientists, to familiarize students with modern DNA and RNA techniques, their development, optimization and application, to learn to develop and investigate scientific ideas and theories, building on existing knowledge and advancing that knowledge through the students' original work.

Plant Anatomy and Physiology

Qualification awarded: Doctoral degree (Ph.D.)

The aim of the study is to provide the graduates with wide theoretical knowledge in plant anatomy, physiology, biochemistry and molecular biology.

During the studies the students are required to pass examinations in three optional courses chosen from a proposed list according to the accreditation documents. The courses are taught by the staff of MENDELU or other universities. In addition, a student can pass an unspecified number of optional courses offered within other Doctoral study programmes at MENDELU or other at universities.

Subjects in English

Winter Semester

- Agricultural Microbiology
- Agroclimatology
- Agrotourism
- Anatomy and Morphology of Plants
- Anatomy and Physiology of Farm Animals
- Applied Bioclimatology
- Biochemistry
- Cattle Husbandry
- Dairy Technology
- Environmental Protection (available also in Italian)
- Farm Animal Husbandry
- Fish Culture
- Food Chemistry
- General Phytopathology
- General Plant Production
- Herbology
- Horse Husbandry
- Hydrology and Hydraulics (in Spanish)
- Chemistry
- Inorganic and Analytical Chemistry
- Organic Agriculture
- Organic Chemistry
- Physics I, II
- Phytopathology and Entomology
- Plant Anatomy and Physiology
- Plant Breeding
- Plant Physiology
- Precision Agriculture
- Principles of Fodder Production
- Radioecology
- Reproduction of Farm Animals
- Sheep and Goat Breeding
- Special Phytopathology
- Zoology

Summer Semester

- Agricultural Microbiology
- Agroclimatology
- Alternative Energy Sources
- Anatomy and Morphology of Plants
- Anatomy and Physiology of Farm Animals
- Animal Genetics
- Applied Bioclimatology
- Cattle Husbandry
- Food Analysis
- Food Engineering
- General Phytopathology
- General Plant Production
- Herbology
- Hydrology and Hydraulics (in Spanish)
- Insemination and Embryo Transfer
- Landscape Ecology
- Medicinal, Aromatic and Spice Plants Production
- Optimizing of Diet with PC
- Organic Agriculture
- Organic Systems of Animal Breeding
- Physics I, II
- Phytopathology and Entomology
- Plant Anatomy and Physiology
- Plant Breeding
- Precision Agriculture
- Radioactive Waste
- Sheep and Goat Breeding
- Soil Science
- Special Phytopathology
- Zoology

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Faculty
of Forestry
and Wood
Technology

Mendel
University
in Brno



EXCELLENCE in
WOODCRAFT

About the Faculty



The Faculty of Forestry and Wood Technology ranks among the leading institutions of university education, research, development and expertise in the areas of forestry, landscaping, arboriculture, forestry and wood technology, processing and use of wood, and manufacture of furniture. Our mission is to provide broad educational, scientific, research, and creative activity in support of the connection of general public with the landscape, forests, wood and related home furnishings, while emphasizing environmental and aesthetic principles. The faculty is part of Mendel University in Brno (MENDELU), whose tradition as a public university dates back to 1919.

Departments

- Department of Geoinformation Technologies
- Department of Geology and Soil Science
- Department of Forest Management
- Department of Forest and Wood Products Economics and Policy
- Department of Forest and Forest Products Technology
- Department of Forest Botany, Dendrology and Geobiocoenology
- Department of Mathematics
- Department of Furniture, Design and Habitat
- Department of Wood Science
- Department of Forest Protection and Wildlife Management
- Department of Landscape Management
- Department of Silviculture
- Department of Wood Processing

Research & Development

Research at the FFWT is funded mainly by projects under government programmes involving national and international institutions, grant agencies, and national and international programmes. We have excellently equipped laboratories and testing facilities, studios and workshops at our disposal. Our supercomputing centre is part of the prestigious EGEE European network and multinational MetaCentre project. End user information infrastructure solutions are based on Open Source technologies and open possibilities for using free software within the university. The forest facilities of Masaryk Forest Training Enterprise at Křtiny (MFTE), covering an area of over 10,000 ha, represent an outstanding resource for the faculty research. MFTE has a tradition of many years in developing aesthetic and recreational functions of the forest. It also features the Forest Pantheon, a series of monuments at various locations celebrating prominent Czech foresters. The following specialized laboratories and testing facilities serve for scientific research purposes:

- Arboriculture Laboratory
- Biometrics Laboratory
- Calibration Laboratory of Measurement Instruments (accredited)
- Chemical Laboratory - Elementary Analysis
- Dendrochronology Laboratory
- Ecosystem Research Objects (Lednice, Rájec)
- Forest Phytopathology and Mycology Laboratory
- Forestry Mechanization Laboratory
- Furniture Testing Centre (accredited)
- Geoinformatics Laboratory
- Molecular Biology Applications Laboratory
- Pedology and Microbiology Laboratory
- Soil Mechanics Laboratory
- Tree Ecophysiology Laboratory
- Wood-based Materials Technology Centre
- Woodworking Products Testing Centre

Study programmes in English

European Forestry

Qualification awarded: Master's degree (M.Sc.)

The two-year M.Sc. programme in European Forestry is interesting both in its form and content. It consists of lectures, field and laboratory exercises, discussion seminars, projects and excursions. The whole programme is taught in English. It focuses not only on traditional forestry, but also on a number of topics related to ecology, nature conservation, and sustainable development, with particular emphasis on the latest trends.

The aim of the programme is to provide students with a general overview of forestry and nature conservation and develop their theoretical and practical management skills. Knowledge gained in the programme: intensive language training and understanding of contemporary international issues allowing graduates to take up top management positions in the forestry sector (and related fields) both in EU and non-EU countries.

The graduate profiles are based on the acquisition of specific skills (following the European Qualifications Framework) of forest engineers who are capable of solving biological, technical, economic and managerial tasks in forestry management. Most of all, the graduates will profit from the combination of theoretical knowledge obtained in their preceding Bachelor studies in different national contexts, and new skills developed within the study programme. Practice is an integral part of the programme.

Compulsory subjects

- Forest Biometry and Modelling
- Forest Ecology
- Multifunctional Forestry
- Forest Technology
- European Forest Economics and Policy
- Silviculture
- Forest Management and Marketing
- Logging and Transport of Timber
- Forest Pathology
- Geographical Information Systems
- Forest Ecosystems in Europe
- Forest Planning

Czech study programmes

Bachelor study (Bc. degree) – 3 years of study:

- Forestry (courses in Arboriculture, Forestry, Management of Natural Resources in the Tropics and Subtropics)
- Furniture Design and Technology
- Landscaping
- Timber Structures and Wood Building Construction
- Wood Technology and Timber Management

Master study (M.Sc. degree) – 2 years of study:

- Forest Engineering
- Furniture Engineering (courses in Furniture Engineering, Furniture Making and Construction)
- Landscape Engineering (courses in Biotechnical Landscape Management, Integrated Landscape Land Use Planning)
- Wood Technology Engineering

Doctoral study (Ph.D. degree) – 3-4 years of study:

- Applied Geoinformatics
- Botany
- Forest Ecology
- Forest Management
- Forest Protection
- Furniture Technology
- Landscaping and Landscape Conservation
- Renewable Resources Economics and Management
- Silviculture
- Technology and Mechanization in Forestry
- Wildlife Management
- Wood Processing and Timber Technology

Subjects in English

Winter Semester

- Acoustics of Wood
- Applied Genetics
- CAD/CAM Application in Woodworking Industry
- Ecosystems of Tropics and Subtropics
- Engineering Drawing with CAD System Application
- European Environmental Geochemistry
- European Forest Economics and Policy
- Forest Access Roads
- Forest Biometry and Modelling
- Forest Ecosystems in Europe
- Forest Management and Marketing
- Forest Mycology
- Forest Planning
- Furniture and Design
- Furniture and Interior Visualization
- Game Management
- Geographical Information Systems
- Landscape Recreationology
- Log Yards and Sawmilling
- Mathematics
- Physical and Mechanical Properties of Wood
- Plant Biology
- Public Relations in Forestry
- Silviculture
- Soil Biology
- Soil Science
- Utility Plants of Subtropics and Tropics
- Water Supply, Sewerage and Sewage Treatment
- Wood Anatomy
- Wood Science

Summer Semester

- Acoustics of Wood
- Biomechanics and Tree Stability
- CAD/CAM Application in Woodworking Industry
- Dendrology of European Forest Tree Species
- Ecophysiology of Woody Plants
- Engineering Drawing with CAD System Application
- Ergonomics and Occupational Safety
- European Environmental Geochemistry
- Forest Botany: Plants of Various Forest Ecosystems in Europe
- Forest Ecology
- Forest Pathology
- Forest Technology
- Furniture and Design
- Furniture and Interior Visualization
- Geobiocoenology
- Landscape Ecology
- Landscape Recreationology
- Log Yards and Sawmilling
- Logging and Transport of Timber in European Forests
- Mathematics
- Natural Conservation
- Remote Sensing
- Soil Biology
- Stress Ecology
- Surveying and Land Records
- Utility Plants of Subtropics and Tropics
- Water Supply, Sewerage and Sewage Treatment
- Wood Science

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Faculty
of Business
and Economics

Mendel
University
in Brno



ECONOMICS for
PROSPERITY

About the Faculty



Established as early as 1959, the Faculty of Business and Economics (PEF) is the oldest faculty of economics in Moravia and as such it belongs to the fundamental pillars of our higher education in economics. It awards all types of degrees – Bachelor's, Master's and Ph.D. Traditionally, the faculty has offered the Economics and Management study programme. It teaches its students economics, management, information technologies, finance, marketing, accounting and other applications for important sectors of the national economy. According to the desired specialization students can choose to study in one of four accredited subject areas: Economics and Management, Social Economics, Tourism and Trade Management.

Departments

- Department of Economics
- Department of Business Economics
- Department of Management
- Department of Statistics and Operation Analysis
- Department of Accounting and Taxes
- Department of Marketing and Trade
- Department of Informatics
- Department of Law and Social Sciences
- Department of Finance
- Research Centre

Study programmes in English

Economics and Management

Qualification awarded: Bachelor's degree (Bc.)
Doctoral degree (Ph.D.)

This study area prepares graduates for holding line and managerial posts, positions as company economists, financial management specialists and for participating in entrepreneurial activities, planning, marketing and business activities. Our graduates also often find employment in consulting companies, interest groups and associations, financial and other offices of public administration and in financial and insurance institutions.

The objectives of this programme are: to develop students' knowledge in economic and management sciences, to introduce the students to the essence of economic processes and the way they affect society, to teach and promote methods which help monitor and control economic and managerial processes, to teach and promote quantitative methods and techniques in order to give students modern and prospective tools which will help them in decision-making processes and in the management of the implementation of their results in practice, to teach students such skills and give them such professional knowledge that will allow them to work effectively on the middle management level in organizations of all sizes or in their branches.

Competences: determination of future development of a concrete company in accordance with development trends, leading companies on higher management levels.

Compulsory subjects

- International Trade Law
- EU Institutions and Law
- Macroeconomics
- Microeconomics
- Managerial Accounting
- History of Economic Theories
- Econometrics

European Studies in Business and Economics

Qualification awarded: Master's degree (M.Sc.)

Students of this programme prepare for work in companies of all legal forms of enterprises. Our graduates are qualified to work on any management level in both manufacturing and non-manufacturing sectors where they can hold line and staff leading offices, positions as company economists and financial management specialists, or they can participate in the analysis and design of business activities, information technology and secure marketing and trade activities. They can also work in counselling organizations, interest groups and associations, financial and other bodies of public administration, financial institutions and insurance companies.

Competences: determination of future development of a concrete company in accordance with development trends, leading companies on higher management levels.

Compulsory subjects

- Economic Geography
- Theory of Monetary Integration
- International Trade Law
- EU Institutions and Law
- Macroeconomics
- Microeconomics
- Managerial Accounting
- History of Economic Theories

Czech study programmes

Bachelor study (Bc. degree) – 3 years of study:

- Tourism
- Economics and Management
- Trade Management
- Social Economics
- Economic Informatics
- Automated Control and Informatics
- Finance
- Public Administration

Master study (M.Sc. degree) – 2 years of study:

- Economics and Management
- Economic Informatics
- Automatic Control and Informatics
- Finance
- Public Administration

Doctoral study (Ph.D. degree) – 3-4 years of study:

- Economics and Management
- Economic Informatics
- Finance

Subjects in English

Winter Semester

- System of Taxation
- Macroeconomics I
- Mathematics I
- Business Economics I, II
- Computer Technology and Algorithmization I
- Informatics for Economists II
- Management
- Marketing
- Financial Accounting
- Statistics
- Economic Mathematical Methods
- Business Ethics
- European Cultures and Civilizations
- International Marketing
- Principles of European Integration in the World Perspective
- Information Resources and Communication
- Econometrics II
- Economics Geography
- EU Institutions and Law
- Microeconomics II
- Managerial Accounting
- Theory of Monetary Integration
- Strategic Management
- International Taxation

Summer Semester

- Financial Markets
- Informatics for Economists II
- Mathematics II
- Computer Technology and Algorithmization II
- Microeconomics I
- Sociology and Social Psychology
- Business Correspondence
- Personal Agenda
- Econometrics II
- Operations Management
- Business Law
- Business Finance
- Trade Operations
- Managerial Psychology
- Small Enterprise
- Tourism
- Office Applications
- Technology and Energetics
- European Business Law
- International Trade Law
- Macroeconomics II
- Financial Management
- History of Economic Theories
- Marketing II
- International Accounting Standards
- International Trade
- Information Systems

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Faculty
of Horticulture

Mendel
University
in Brno



CONNECTING
PEOPLE and NATURE

About the Faculty



As early as in 1922 the university built its first field centre in Lednice – the Biological Field Station – and almost immediately started work on the idea of eventually opening a separate horticultural unit in Lednice. Lednice is part of the officially designated “Lednice-Valtice Area”, listed by UNESCO as a world heritage site of special cultural and environmental interest.

The crowning achievement came in August 1985 when Horticulture was established as a separate faculty of the university (MUAF) in Brno, with its base in Lednice.

University-level teaching of horticulture in Lednice was the first and only institution of its type in the former Czechoslovakia. Faculty has trained and educated more than 5,000 horticulturalists, not only from our three traditional areas of Bohemia, Moravia and Silesia, but also Slovakia and other countries.

Departments

- Department of Fruit Growing
- Department of Horticultural Machinery
- Department of Vegetable Sciences and Floriculture
- Department of Breeding and Propagation of Horticultural Plants
- Department of Post-Harvest Technology of Horticultural Products
- Department of Viticulture and Oenology
- Department of Garden and Landscape Architecture
- Department of Planting Design and Maintenance
- Department of Landscape Planning
- Mendeleum

Study programmes in English

Fruit Science

Qualification awarded: Master's degree (M.Sc.)

Students will learn about and understand the latest research achievements in the field of growth and development of main and minor fruit species that can be grown in Central Europe. They will obtain basic knowledge of establishing and maintaining orchards, growing aspects and development, technology of pruning and modern training systems, commercially popular varieties and promising new varieties and harvesting methods. Graduates will understand the functioning of fruit plants and the influence of environmental and technological factors on plant processes.

Professional competence for the M.Sc. study in Fruit Science: latest research achievements in the field of planting, growth, development and plant protection of main and minor fruit species, procedures of establishing and maintaining orchards and growing aspects of main and minor fruit crops, quality standards and use of fruits, principles of post-harvest methods, advanced principles of genetics, plant breeding and biotechnological applications of these techniques for achieving breeding goals and for genetic analysis of plants, fruit marketing on a regional, national and international scale.

Compulsory subjects

- Plant Breeding and Biotechnology
- Biotechnology in Horticulture
- Pome Fruit Production and Nursery Techniques
- Fruit Processing
- Stone Fruit Production
- Minor Fruit Species
- Fruit Storage

Specialized subjects

- Floriculture
- Dendrology
- Winemaking
- Vegetable Production
- Technology of Fruit Distillates
- Horticulture Mechanization
- Fruit Trees and Cultural Landscapes

Czech study programmes

Bachelor studies (Bc. degree) – 3-4 years of study:

- Viticulture and Oenology
- Horticulture
- Quality of Plant Food Sources
- Landscape Architecture (4 years)
- Landscape Realizations

Master studies (M.Sc. degree) – 2 years of study:

- Horticulture
- Management of Horticultural Technology
- Fruit Science
- Landscape Architecture
- Landscape Management

Doctoral studies (Ph.D. degree) – 3-4 years of study:

- Horticulture
- Landscape Architecture

Research & Development

The Mendeleum scientific research centre, which is today an integral part of the Faculty of Horticulture, was founded in 1912 upon the initiative of a teacher at the university in Vienna, Erich Tschermak von Seysenegg, who was one of the three scientists to re-discover and verify Gregor Mendel's famous principles of genetic inheritance. For the whole of its existence, its work has been devoted partly to the practice of plant breeding, and partly to researching the theoretical principles of breeding and applied genetics, and this continues to this day. The department houses a collection of genetic material (gene bank) for peaches, almonds and inter-specific hybrids of grape vines. The research focuses on the use of genetic markers in plant breeding.

Nowadays, long-term scientific and research activities at the Faculty of Horticulture in Lednice focus on applied research of main and non-traditional fruit species, ornamental plants, vegetables and herbs. The main aim of this long-term orientation is diversity creation and evaluation of selected horticultural species and their studies, evaluations, preservation of their genetic resources and use in breeding programmes. Part of this segment is also research of post-harvest treatment and processing technologies of horticultural commodities. Lately, the resistance to biotic and abiotic pathogens has come into focus.

The development of the landscape ecology research, including the study of planting vegetation elements for garden and landscape architecture needs has become an integral part of long-term scientific and research activity.

Subjects in English

Winter Semester

- Biotechnology in Horticulture
- Extensive Fruit Production
- Floristics
- Fruit Breeding
- Nursery Production
- Plant Breeding
- Plant Breeding and Biotechnology
- Postharvest Storage of Fruit and Vegetables
- Processing of Fruit and Vegetables
- Complex Vegetable Production
- Stone Fruit Production

Summer Semester

- Biotechnology in Horticulture
- Minor Fruits
- Postharvest Storage of Fruit and Vegetables
- Processing of Fruit and Vegetables
- Complex Vegetable Production

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Faculty
of Regional
Development
and International
Studies

Mendel
University
in Brno



SOLUTIONS to
DEVELOPMENT

About the Faculty



The Faculty of Regional Development and International Studies was founded in 2008 as the fifth faculty of Mendel University. The main incentive for establishment of the new faculty was the growing significance of harmonized social, economic and environmental development in concordance with the development of agriculture, forestry and other industrial and business activities in the region both on national and international levels. The objective of the faculty is to prepare experts for solutions of regional development problems requiring multidisciplinary competences.

Departments

At present, the faculty consists of seven departments; the one with the longest history being the Department of Regional and Business Economics, whose predecessor, the Department of Agricultural Economics was founded in 1922. The history of the Department of Languages and Cultural Studies, which was constituted in 2003, stretches back to 1950.

- Department of Regional and Business Economics
- Department of Social Development
- Department of Demography and Applied Statistics
- Department of Territorial Studies
- Department of Environmentalistics and Natural Resources
- Department of Regional Development and Public Administration
- Department of Languages and Cultural Studies

Study programmes in English

The faculty offers two Bachelor's degree programmes – Regional Development and International Territorial Studies, both in English and Czech language. Since the academic year 2012/2013 we are going to offer the International Territorial Studies on the Master's level.

Optional courses within both the programmes enable students focussing on specific subject areas of their interest.

Regional Development

Qualification awarded: Bachelor's degree (Bc.)

Specialization: Business / Public Administration

The aim of this study programme is to prepare its graduates to take up various positions in regional, national or international institutions. Students can also become consultants in the area of regional development as well as prepare various projects for execution on both regional and international levels. Last but not least, the graduates can start their own business activities in the regions.

The competences of the graduates are: ability to find conceptual solutions to regional development problems with economic, political, environmental, and social consequences; ability to prepare and to process projects aiming at support for regional activities with active use of corresponding knowledge; ability to analyse entrepreneurial environment, establish and run businesses; ability of comparison of regional disparities and ability to prepare and to evaluate drafts for solution and removal of these disparities; ability to apply interdisciplinary approach for solution of regional development problems; knowledge of functioning and financing the public administration system; knowledge of regional development funding; ability to identify and use relevant information sources; ability to prepare solutions in business economics and to optimize processes in the area of financial management, and ability to analyse the region in a complex way from the point of natural, social and cultural resources and economic performance.

Compulsory subjects

- Applied Statistics
- Bachelor's Seminar
- Business Economics
- Environmental Law
- Environmental Protection and Conservation
- Fundamentals of Public and Private Law
- General Demography
- Information Systems
- Landscape Design and Protection
- Macroeconomics
- Management in Regional Development
- Mathematics
- Microeconomics
- Project Preparation and Management
- Public Administration
- Regional Economics
- Regional Policy
- Regional Sociology
- Social Psychology
- Sociology
- Theory of Regional Development

Specialized subjects – Business

- Accounting
- Agriculture
- Agrotourism and Rural Tourism
- Business Finance
- Environmental Aspects of Business in EU
- Forestry in Regional Development
- Managerial Psychology
- Marketing in Regional Development
- Small Business Management
- Tourism in Regional Development

Specialized subjects – Public Administration

- Accounting in Public Administration
- Agricultural Policy and Trade
- Economics and Management of Environment and Natural Resources
- GIS in Regional Development
- Globalization and Regionalism
- Land Consolidation and Registration
- Public Finance
- Residential Structures
- Social Communication
- Substantive Administrative Law

International Development Studies

Qualification awarded: Bachelor's degree (Bc.)

Specialization: Global Development / Economic Development of Tropics and Subtropics

The aim of this study programme is to prepare its graduates for work in national or international organizations where complex knowledge or understanding of the problems of developing countries, particularly of economic, environmental, social, political and cultural issues, is required.

The competences of the graduates are: ability to define research topics and to propose projects for resolution to problems in the developing world, ability to find conceptual solutions to regional development problems with economic, political, environmental, and social consequences, knowledge of environmental, demographic and migration trends and their economic and social consequences in developing countries, knowledge of world institutions and organizations active in area of development aid and cooperation, knowledge and understanding of development problems in Asia, Africa, and Latin America, ability to identify and to use relevant information sources, knowledge of economic growth and development theories, understanding of the role of the government in solution of integration and globalisation processes' impacts in developing countries, ability to work in the international context and in an interdisciplinary team, understanding of cultures and customs in other countries

Compulsory subjects

- Agricultural Policy
- Applied Statistics
- Bachelor Seminar
- Demography and Development
- Development Economics
- Ecology

- Economic Aspects of Environmental Protection
- Economic Geography of Asia, Africa and Latin America
- Globalization and Regionalism
- International Business
- Introduction to Development Studies
- Macroeconomics
- Management in Regional Development
- Microeconomics
- Political Processes in Developing Countries
- Public Sector Economy
- Security and Safety Aspects of Developing Countries
- Sociology
- Theories of Regional Development

Specialized subjects – Global Development

- Agricultural Economics and Forestry Management
- Cross-Cultural Psychology
- Development Problems in Africa
- Development Problems in Latin America
- Development Problems in SE Asia
- International Relations
- Non-Profit Organizations and Development Aid
- Project Preparation and Management

Specialized subjects – Economic Development of Tropics and Subtropics

- Agricultural and Forestry Technique in Tropics and Subtropics
- Food and Non-Food Processing Techniques in Tropics and Subtropics
- Human Nutrition in Tropics and Subtropics
- International Marketing
- Multifunctional Agriculture and Forestry
- Sustainable Forestry Husbandry in Tropics and Subtropics
- Trade with Agricultural Commodities
- Tropical and Subtropical Agriculture

Socioeconomic and Environmental Development of Regions

Qualification awarded: Master's degree (M.Sc.)

Specialization: Business / Public Administration

Students of this programme are prepared for strategy-making process and socioeconomic and environmental development of regions. Our graduates are qualified to work on in any public management level in municipalities and related regional entities, public administration, local government, non profit organisations, clusters, institutions of development activities. They can also work in businesses, interest group and association, expert consultancy in regional development. The study covers in knowledge making process internalisation of globalisation processes, social and cultural conditions of regions, regional, geographic and demographic aspects, cultural heritage of regions, environmental conditions and natural conditions.

The competences of the graduates are: practical application of the theory of regional science in global and regional consequences, analysis of regions, and application of environmental, geographic and other expert knowledge is a process of regional development, interdisciplinary approach in management and decision-making process, cohesion of economics, environmental and social knowledge.

Compulsory subjects

- Public Sector Economics
- Human Resources Management
- EU Law
- Economic Geography
- Diploma Seminar
- Sustainable Development of the Regions
- Programmes and Strategies of Regional Development
- Environmental Policy in Regional Development
- Investment Decision-making
- Landscape and Land-use Planning in Regional Development
- Socioeconomic Demography

Specialized subjects – Business

- Cross-cultural Psychology
- Managerial Economics
- Marketing Research
- Financial Management
- Enterprise Valuation
- Project Management
- Innovations and Technology Transfer
- Government Interference and Business
- Agribusiness in Regional Development

Specialized subjects – Public Administration

- Global and Regional Aspects of the Labour Market
- Revitalization and Recultivation in Regional Development
- Administrative Instruments of Environmental Protection
- Regional Management
- Interpretation and Visualization of Areal Data
- Cultural Heritage
- Regional Development Analysis
- Administrative Law (Management) and its Application in Public Administration
- Socioeconomic Evaluation in Public Sector

Czech study programmes

Bachelor studies (Bc. degree) – 3 years of study:

- Regional Development
- International Development Studies

Master studies (M.Sc. degree) – 2 years of study:

- Socioeconomic and Environmental Development of Regions

Research & Development

Research at the Faculty of Regional Development and International Studies involves interdisciplinary field of regional science. Research projects are solved under government funds, international institutions and grant agencies. Faculty cooperates with public sector and private companies in research activities. Excellent outputs are published in highly refereed journals and presented at respected conferences. Faculty issues scientific journal – Journal of Regional Development, organizes international world famous conference ICABR and other domestic conferences and workshops. The foreign facilities cover training centers for development studies and research in Nicaragua and Zambia.

Subjects in English

Winter Semester

- Administrative Instruments of Environmental Protection
- Agriculture Economics and Forestry Management
- Business Finance
- Cross-cultural Psychology
- Development Economics
- Development Problems in Africa
- Development Problems in Latin America
- Ecology
- Environmental Law
- Environmental Protection and Conservation
- EU Law
- Forestry in Regional Development
- Fundamentals of Public and Private Law
- General Demography
- Global and Regional Aspects of the Labour Market
- Human Resources Management
- Intercultural Psychology
- International Trade
- Introduction to Development Studies
- Macroeconomics
- Managerial Economics
- Managerial Psychology
- Marketing in Regional Development
- Marketing Research
- Mathematics

Summer Semester

- Accounting
- Agricultural Policy and Trade
- Agriculture
- Agrotourism and Rural Tourism
- Applied Statistics
- Business Economics
- Demography and Development
- Development Problems in SE Asia
- Diploma Seminar
- Economic Aspects of Environmental Protection
- Economic Geography
- Economic Geography of Asia, Africa and Latin America
- Enterprise Valuation
- Environmental Aspects of Business in EU
- Financial Management
- Globalization and Regionalism
- Information Systems
- Interpretation and Visualization of Areal Data
- Cultural Heritage
- Landscape Design and Protection
- Management in Regional Development
- Marketing in Regional Development
- Microeconomics
- Political Processes in Developing Countries
- Project Management
- Project Preparation and Management
- Public Administration
- Regional Economics
- Regional Management
- Regional Sociology
- Social Psychology
- Sustainable Development of the Regions
- Tourism in Regional Development

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Institute
of Lifelong
Learning

Mendel
University
in Brno



EDUCATION for
THE FUTURE

About the Institute



The role of the Institute of Lifelong Learning as a university department of Mendel University in Brno is to provide academic education in selected Bachelor study programs and further lifelong learning focusing on knowledge and skills development, both for the graduates of the University as well as the wide range of people interested in the subjects provided by the University Curriculum.

The Institute also offers a number of study programmes at the University of the Third Age designed for seniors. The Institute also offers consultancy in various areas of interests to the general public. In general, the study programmes provided by the Institute of Lifelong Learning (ILL) follow the range of specialisations available at Mendel University in the accredited study programmes enabling the students to gain the same or overlapping knowledge in the programmes of lifelong learning. The curriculum of the study programmes is extended by programmes specialising in developing language skills, data processing, modern information technologies, improving the knowledge of the society and economy management, organizational structures in current business and their relation to the global economic environment and globalization. The tutorials cover also the issues of agriculture, environment, law, communication etc.

Departments

At present, the ILL consists of five departments.

- Department of Social Science
- Department of Continuing Education
- Department of Senior Education
- Expert Engineering Department
- Advisory Centre

Study Levels

ILL offers two Bachelor's degree programmes – Specialization in Pedagogy and Technical Expertise and Insurance Industry, and one programme on the Master level – Technical Expertise and Expert Engineering.

Specialization in Pedagogy

This field of study offers the following programmes: Vocational Subjects Teaching, designed for university graduates to obtain pedagogical qualification for teaching vocational subjects at secondary schools, and Teaching of Vocational Subjects and Practical Training, designed for secondary school graduates to obtain pedagogical qualification for teaching vocational subjects and practical training.

Vocational Subjects Teaching

The graduates qualify for professions in pedagogy, psychology and didactics in the field of teaching vocational subjects at secondary schools specialized in agriculture, food processing, ecology, mechanization, economy, IT, forestry, wood processing, environment, horticulture, or veterinary issues. The graduates will be prepared both theoretically and practically to teach specialized subjects at secondary schools. The qualification of the graduates comprises a coherent system of knowledge and teaching skills in specialized pedagogical, psychological and didactic disciplines, as well as related disciplines, such as rhetoric, speaking in public, pedagogical ethics, social partnership, foreign language terminology, school hygiene and prevention, and information technologies.

Teaching of Vocational Subjects and Practical Training

The graduates qualify for professions in pedagogy, psychology and didactics in the field of teaching vocational subjects and practical training at secondary schools specialized in agriculture, food processing, ecology, mechanization, economy, IT, forestry, wood-processing, environment, horticulture, or veterinary issues. The qualification of the graduates comprises a complete system of knowledge and teaching skills in specialized pedagogical, psychological and didactic disciplines, as well as related disciplines, such as ecology, foreign language, rhetoric, speaking in public, pedagogical ethics, school hygiene and prevention, and information technologies.

Technical Expertise and Insurance Industry

Technical Expertise and Insurance Industry

The graduate gets competence and skills enabling them to work as:

- a) an authorized appraiser
- b) an expert in economy, with a special focus on prices and appraisals
- c) an expert on valuation
- d) an independent adjuster of insurance claims. The qualification comprises a wide range of specialized subjects, such as theory of materials, maintenance and repairs of machines and vehicles, principles of private and public law, statistics, accounting, etc. The study programme is supplemented with a wide offer of optional subjects.

Technical Expertise and Expert Engineering

The Master study programme of Technical Expertise and Expert Engineering

Expert Engineering is a follow-up to the first degree of the Bachelor study programme and the specialization of the Technical Expertise and the Insurance Industry provided by the Institute of Lifelong Learning of Mendel University in Brno. The programme enables the students to continue in their studies on the Master level on condition they graduate from the Bachelor level in technical and technical-economic fields, especially in Technical Operation, Waste Disposal Technology, Automation Management and Informatics, Vocational Subjects Teaching and Practical Training. The applicants will be evaluated according to their study results achieved on the Bachelor or Master study level in case the syllabus is identical or similar.

Lifelong Learning

Further Education of Teachers, Pedagogical Science:

- Teaching of Specialized Subjects
- Teaching of Vocational Subjects and Practical Training

Specialized Long-term Courses:

- Professional Training Instructor
- General Agricultural Activities – Retraining Course
- Enterprise Appraisal
- Export Manager - Retraining Course
- Medicinal Plants
- Technical Expertise and Adjustment of Insurance Claims
- Waste Disposal Management Environmental Municipality
- Management
- Crisis Management - Retraining Course
- IPMA Project Management – D Level
- Cheese and Fermented Products Processing - Retraining Course
- Quality Management in Viticulture

Consulting Services

Specialized Consultancy

The programme implements projects of the MŽP (Ministry of the Environment), MZe (Ministry of Agriculture) and ESF (European Social Fund). The service provides information in the field of agriculture, forestry, food processing and economy in cooperation with the advisory centre of the Faculty of Agronomy and the University specialists.

Career Advising and Consultancy in Psychology

The programme is designed for students and graduates of Mendel University in Brno, providing advisory services in the field of psychology, psychotherapy, individual consultancy focused on studies and future career, psychological diagnostics, professional and personality profile, individual consultancy for disadvantaged students, coaching, courses and training of soft skills, seminars on skills and qualification needed to enter the labour market successfully.

Senior Training – University of the Third Age

The University of the Third Age (U3A), a three-year specialized study programme, is designed for people of the senior age. The programme consists of lectures and tutorials dealing with particular topics taught by the faculties of the University.

Significant scientific research and other projects of the Institute of Lifelong Learning at Mendel University in Brno:

Czech Science Foundation:

- Preparing technicians for training and managing people in the context of European integration
- Aspiration of young people to pursue sciences and technical careers and preparation of engineers for educating and managing people

Projects financed by the European Social Fund (ESF): (ILL as the project leader)

- Preparation of research and development staff – innovated system
- Specialised, pedagogical and managerial education – innovation for competitiveness
- Modern teacher

Research Plan (Ministry of Education, Youth and Sports): (ILL as the project co-investigator)

- Czech economy in the process of integration and globalization and development of agrarian sector and service sector in context of the new integrated European market

Internal scientific research project:

- Analysis of educational needs of students of ILL Mendel University in Brno with regard to possibilities of educational institutions and practice requirements
- Changes in secondary schools in modern educational institutions

Development Project of the Ministry of Education, Youth and Sports:

- Development of psychological counselling at universities in the Czech Republic
- Innovation and expansion of higher education counselling centres in Brno

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In conclusion

Why Brno?

- strategic geographical location in the heart of Europe with excellent accessibility (Prague – 200 km, Vienna – 120 km, Bratislava – 120 km, Munich – 550 km, Budapest – 320 km, Katowice – 270 km) and an international airport Brno-Tuřany
- centre of South-Moravian region, beautiful surroundings with many historical and natural sights, the area of vineyards
- important venue of international fairs and exhibitions (Brno Exhibition Centre – functionalist architecture)
- rich cultural life – theatres, cinemas, galleries, museums, festivals and cultural events
- Grand Prix Czech Republic – world championship of road motorcycles and other sport events
- seat of important judiciary institutions (Constitutional Court, Supreme Administrative Court)

City of students

- about 370,000 citizens living in Brno and over 86,000 students studying here
- 6 public universities with 30 faculties, 6 private universities
- large proportion of international students
- job opportunities in many international and global enterprises (IBM, Honeywell, AVG, Siemens, etc.)

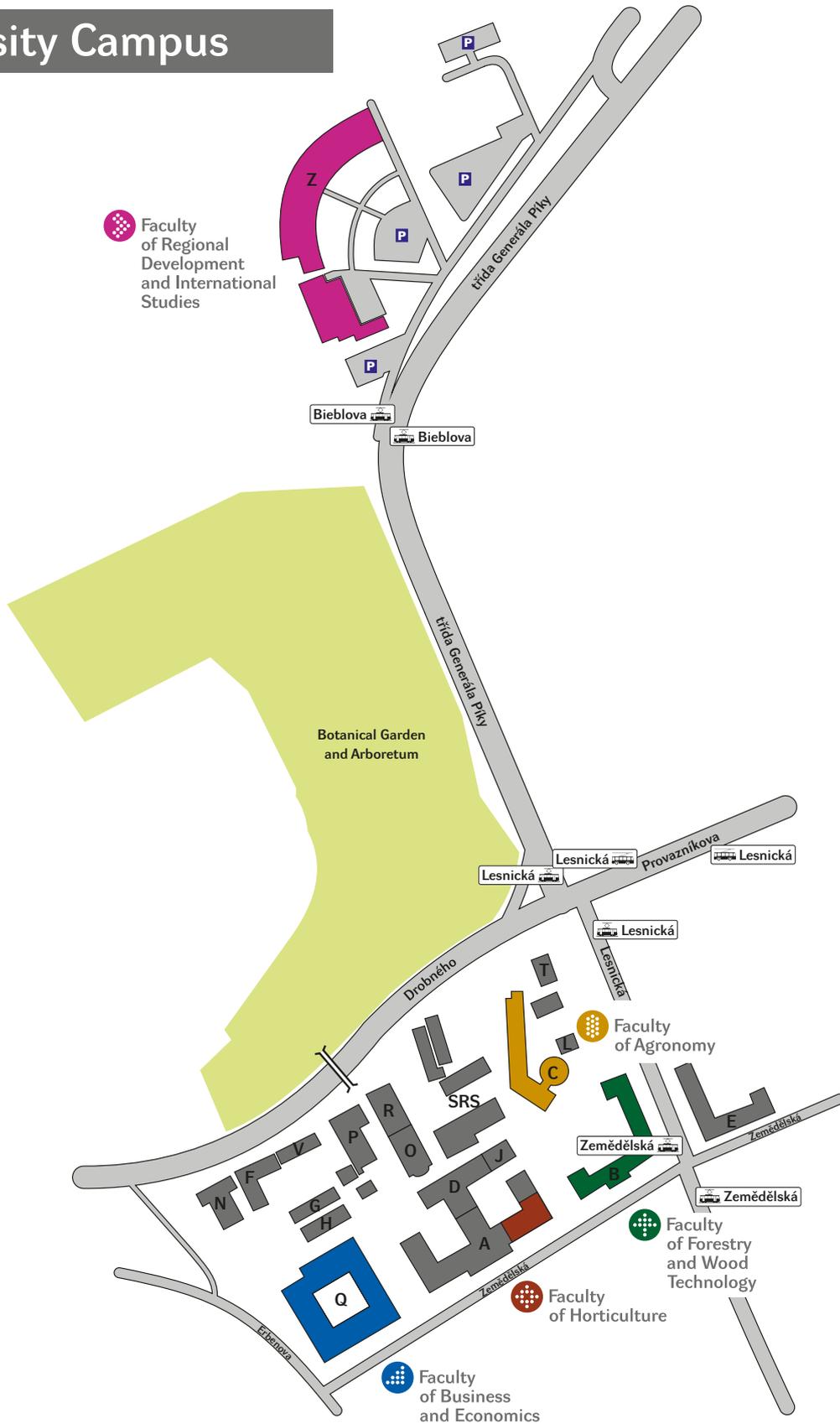
Research & Development

- modern, dynamic and fast developing centre of industry, trade, science, information technology, research and innovation – business incubators, centres of excellence
- Central European Institute of Technology (CEITEC), International Clinical Research Center Brno (ICRC), Masaryk University Campus, Gate2Biotech Portal
- other strategic development projects: Brno Industrial Zone – Černovice Terrace, Slatina Barracks, Europoint Brno – Railway Junction and South Centre, Aquapark Brno
- more than 10,000 scientists and over 200 R&D companies
- 1st place in the category Eastern Europe FDI Strategy, among the TOP 5 FDI Strategy overall Europe and TOP 10 cities in Eastern

Why Mendel University?

- excellence in education and science
- dynamic, progressive university
- all study programmes and most of the subjects taught both in Czech and in English
- multidisciplinary studies
- strong international cooperation
- Buddy System – Czech volunteer students helping incoming students with adaptation upon arrival

University Campus



Mendel University in Brno

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How to find us

Thanks to its location at the very heart of Central Europe, getting to Brno is simple, whether by plane, train, coach, bus or car. There is a small airport in Brno where some seasonal and regular flights are operated. If you travel by air, you will come to Prague airport-Ruzyně or Vienna (Austria). It is approximately 220 km from Prague to Brno and 120 km from Vienna to Brno. There is a very good connection between Prague and Brno either by train or by coach directly from the airport or Florenc bus station. In case you travel via Vienna, there are coaches going directly from the airport or trains from Vienna-Mitte railway station to Brno.