

The vision of the FACULTY OF AGROTECHNOLOGIES – be an open, constantly renewing Faculty with extensive international relations, foster the European dimension of higher education, integrate the latest research knowledge into the Faculty's study programmes, introduce advanced technologies, promote a high level of foreign language proficiency and professional excellence among teachers and students.

Represented Fields of Research

Agronomy. Sustainable soil management. Implementation of sustainable crop production technologies and reduction of their environmental impact in the context of climate change.

Veterinary. Animal health and welfare.

Chemistry. Sustainability of agro- and aquatic ecosystems and climate change. Sustainable processes and advanced technologies in the food industry. Development, accessibility and innovation for functional and healthy food.

Environmental Engineering. Waste management and the circular economy. Soil protection and regeneration. Engineering environmental monitoring systems. Sustainable urban infrastructure. Ecosystem restoration and biodiversity. Environmental protection assessment.

Researchers

Agronomy – 3 researches; **Veterinary** – 16 researches; **Chemistry** – 7 researches; **Environmental Engineering** – 9 researches.

- Publications in scientific periodicals, international peer-reviewed open-access journals, presentations at scientific conferences, consultancy for individuals and legal entities.
- Accredited independent agricultural consultants provide expert guidance on Crop rotation; Fertiliser use in crop production sector; Environmental protection and nature conservation; Animal welfare and health; Animal housing, breeding, care and feeding.

Laboratories

The chemistry laboratories use advanced analytical methods in spectrophotometry, chromatography (GC, HPLC) and electrochemistry. These methods provide a deeper understanding of the chemical properties and composition of materials and allow the assessment of applications in a wide range of fields.

The Food Technology Laboratories use the latest techniques and technologies for processing fruit, berries and vegetables - freeze-drying, fermentation. Standard techniques are used to analyse the sensory properties of food (appearance, texture, consistency, taste). The laboratories aim to generate new knowledge, promote the sustainable use of plant raw materials and develop innovation in food technology.

Ornamental Plants and Planting Centre, "VikoFlora".

VIKO Veterinary Clinic: mobile laser, blood analysers, Digital Radiography X-ray machine, dental cleaning system, video endoscopic system, diagnostic ultrasound machine.

Research programmes of interest

Themes and annexes of the European Horizon Programme, Action Group 6 „Food, Bio-economy, Natural Resources, Agriculture and Environment“; Hop-on; COST programme; European Partnership Programmes; LMT (Research Council of Lithuania) projects; other calls for international programmes related to the agriculture, food and veterinary sectors.

Contact information

Agronomy. PhD Gražina Palaitytė, g.palaityte@atf.viko.lt

Veterinary. PhD Ernest Kostenko, e.kostenko@atf.viko.lt

Chemistry. Nijolė Ružienė, n.ruziene@atf.viko.lt

Environmental Engineering. PhD Inga Jančauskienė, i.jancauskiene@atf.viko.lt

References

<https://atf.viko.lt/>

<https://atf.viko.lt/fakultetas/struktura/mokslo-taikomosios-veiklos-laboratorija/>

<https://atf.viko.lt/visuomenei/mokslo-taikomoji-veikla-ir-tyrimai/>

<https://www.facebook.com/vikoatf>



Represented Fields of Art and Research

Fine Arts. Design. Theater and Cinema. Art History.

Topics of Scientific Research and Artistic Activity

Photography:

1. Photography art projects
2. Photographic advertising solutions (photography of objects, services, etc.)
3. Studio photography
4. Social photography
5. Reportage photography

Multimedia Design:

1. Publishing books on the history of animation
2. Educational projects
3. Organizing festivals
4. Scriptwriting and text creation
5. Video recordings, editing and dubbing

Graphic Design:

1. Identity Design
2. User Interface Design
3. Digital Product Design
4. Packaging Design
5. Publication Design
6. Illustration
7. Event Advertising

Interior Design:

1. Interior design projects, feasibility studies
2. Environmental design projects
3. Art installations

Collaboration and Projects

- Rokiškis District Municipality Administration Civil Metrication Department Premises Design Project;
- Outdoor Classroom Project for Vilnius Schools;
- Interior Design Feasibility Study for the Lithuanian Deaf and Hard of Hearing Education Center;
- „Optikos pasaulis“ Custom Shop and Optician Showcase Competition, Implementation of the Winners' Projects;
- Marijampolė Hospital Emergency Department Interior Design Project;
- ESP Sweden AB Office Renovation Project in Sweden, Office Graphic Identity Project.

Laboratories

Black and white photography laboratory:

- Analog photography process works
- Creative workshops
- Courses

Programmes of Interest

Themes and annexes of the European Horizon Programme, Action Group 2 „Culture, creativity in inclusive society“:

- Cultural Heritage;
- Social and Economic Transformation.

Contact information

Lorita Butrimienė, l.butrimiene@dif.viko.lt
<https://vtdko.lt/dizaino-fakultetas/>

Represented Fields of Research

- **Electrical and electronic engineering:** manufacturing technologies and artificial intelligence
- **Computer Engineering:** Cyber Security and Security Innovation, Robotics, Digital Technologies
- **Computer Science:** Big Data, Artificial Intelligence, Digital Technologies

Laboratories

Electronics Laboratory – focused on analogy and digital electronics research and design.

Automation and Robotics Laboratory – offers practical training in control systems and industrial automation.

IoT Laboratory – dedicated to the development and implementation of smart connected systems and IoT applications.

Artificial Intelligence and Data Analysis Laboratory – dedicated to AI-driven solutions and data science projects.

Cybersecurity Laboratory – specializing in IT security research and hands-on training.

Collaboration and Projects

EIF collaborates with top companies such as **Accenture Lithuania, Reiz Tech, BlueBridge, Shift4 Payments Lithuania, Esemda, Dielektrik, Baltnetos Komunikacijos, Crayon Lithuania** and others. Students and faculty participate in various projects, including:

- Development of industrial control systems;
- AI applications in IT security and healthcare;
- Smart electronics solutions;
- Open-access technical creativity workshops (makerspace);
- Innovation through hackathons and start-up incubators.

EIF researchers are actively involved in various European Union (EU)-funded research projects and collaborate with universities and technology companies worldwide. The faculty aims to ensure that its research is not only academically valuable but also practically applicable in the technology sector.

Programmes of Interest

Themes and annexes of the European Horizon Programme, Action Group 4 „Digital Technologies, Industry, Space“:

- Manufacturing technologies;
- Digital Technologies;
- Artificial Intelligence and Robotics;
- Next Generation Internet;
- Ultra High Performance Computing and Big Data.

Themes and annexes of the European Horizon Programme, Action Group 3 „Civil Security for Society“:

- Cybersecurity.

Contact information

+370 657 10500

info@eif.viko.lt

<http://www.eif.viko.lt>



The mission of the FACULTY OF ECONOMICS – to advance knowledge of economics, accounting and finance; to educate highly qualified professionals with a strong practical orientation; to foster collaboration among business practitioners; to drive innovations in European higher education; to promote internationalization and to be a sustainable leader in the Vilnius region.

Main Research Directions

Green economy. Green finance. Sustainable accountability.

Dominant Research Topics

Sustainable finance. Financial literacy. Sustainable and green investment. Public finance. The insurance market and FinTech. Recently, significant attention has been given to the integration of artificial intelligence into the fields of finance, accounting, and economics.

Researchers

Giedrė Lapinskienė, PhD <https://orcid.org/0000-0003-0179-794X>
Dainora Gedvilaitė, PhD <https://orcid.org/0000-0001-5813-0607>
Neringa Slavinskaitė, PhD <https://orcid.org/0000-0002-3388-6384>
Artūras Vitas, PhD <https://orcid.org/0009-0005-2082-7691>
Agnė Šimelytė, PhD <https://orcid.org/0000-0002-9475-9645>

Laboratories

Faculty researchers conduct their work at the Bloomberg Lab.

Collaboration and Projects

In 2022, the Erasmus+ PL01 project for the development of the education system, Economics of Sustainability (EOS) (2019-1-PL01-KA203-065050), was successfully implemented under the coordination of the University of Economics in Katowice. As a result of the project, the monograph “Economics of Sustainability” was published, with three sections authored by EKF researchers. Currently, a new project, “Building a Digital Platform for Green Finance Learning”, has been submitted for evaluation.

The Faculty of Economics of Vilnius College actively collaborates with researchers from Cracow University of Economics (Poland), University of Maribor (Slovenia), Rzeszów University of Technology (Poland), National University of Life and Environmental Sciences (Ukraine).

Programmes of Interest

Themes and annexes of the European Horizon Programme, Action Group 5 “Climate, Energy & Mobility”, Action Group 6 “Food, Bioeconomy, Natural Resources, Agriculture & Environment”, as well as in the 2025 initiatives of the New European Bauhaus.

Contact information

Address: Studentų str. 39A, Vilnius, Lithuania
Research Project Manager: PhD Giedrė Lapinskienė
g.lapinskiene@ekf.viko.lt
+ 370 655 76 393
<https://ekf.viko.lt/>

Represented Fields of Research and Art

Music (16 artists). **Theatre and cinema** (12 artists). **Design** (12 artists). **Materials engineering** (7 researchers). **Management** (9 researchers). **Educology** (5 researchers).

Topics of Scientific Research and Artistic Activity

Popular, Jazz and Improvised Music:

1. Popular, jazz and improvisational music works, recordings and publishing.
2. Popular, jazz and improvisational music in concert activities.
3. Interdisciplinary art projects, music creation and recordings.

Musical Theatre:

1. Historical, cultural memory and creative initiative projects.
2. Theatre and music artistic experimental projects.

New Manufacturing Processes, Materials and Technologies:

1. Polymer and textile technologies.

Culture, Creativity and Inclusive Societies:

1. Culture and arts management.
2. Protection of copyright and related rights.
3. Social responsibility and sustainable management.
4. Human resource management.

Educational and Learning Processes:

1. Dance didactics.
2. Current issues in the training of dance teachers.

Fashion and Image Design:

1. Integration of traditionally produced materials and techniques in a contemporary design and art context.
2. Updating ethnic design in creative design projects.
3. Sustainable production practices and responsible consumption (garment recycling, reuse, sustainable design solutions, etc.).

Laboratories

Digital Fashion Studio:

- design, modelling and technical documentation of fashion products (Gerber, Lectra and Clo software);
- virtual 3D fitting of clothing products on standard and personalised avatars (Clo3D software).

Textile Materials and Products Research Laboratory

- research on the strength of textile materials (Imada equipment);
- studies on the stiffness, wrinkling, fall, water repellence and colour resistance of textiles to dry and wet abrasion (Textest equipment).

Collaboration and Projects

The Faculty actively cooperates with Lithuanian cultural centres, arts organisations and associations, carrying out contract artistic activities. Lecturers and students successfully implement various creative projects - from musical performances, concert programmes in Lithuanian churches, jazz festivals and clubs, city festivals, state institutions to the creation of clothing collections (silk, linen, sustainable fashion clothing collections).

Implemented projects: „Textile Circular Economy Innovation Initiative for an Entrepreneurial Europe“ (project funded by the European Institute of Innovation and Technology (EIT)); „European Network for Research and Innovation in Smart Textiles“ (funded by the European Cooperation in Science and Technology (COST) programme).

Programmes of Interest

Themes and annexes of the European Horizon Programme, Action Group 2 „Culture, Creativity and Inclusive Societies“ on *Cultural Heritage, Socio-economic Transformation* and Action Group 4 „Digital Technologies, Industry, Space“ on *Advanced Materials, Circular Industries, Manufacturing Technologies, Digital Technologies*.

Contact information

administracija@mtf.viko.lt
<https://www.facebook.com/VIKOMTF>
https://www.instagram.com/vikomtf_official/



The mission of the **FACULTY OF PEDAGOGY** is the training of highly qualified pre-school and primary educators, Lithuanian Sign Language interpreters and social workers who are committed to continuous development, based on the modern philosophy of education and the latest scientific knowledge.

Represented Fields of Research

Educology. Sociology. Philology.

Topics of Scientific Research

Social well-being

Social work, regional social policy, inclusion of marginalised groups, social psychology, domestic violence.

Language and interpretation

Lexicon of Lithuanian Sign Language (LSL), LSL interpretation, onomastics, teaching and learning a non-native language, logic of text, stylistics, intercultural communication, sociolinguistics.

The processes of education and development

Early childhood education (exploration of the children's environment, language development and acquisition).

Prie-primary and primary education (child development and learning, development of creativity and communication competences, development of mathematical thinking), teacher education, inclusive education, health of the child, cultural education, didactics of higher education, management of learning processes, digital transformation, and distance learning.

Laboratories

STEAM lab

For research on science teaching and learning.

Center for Sign Linguistics

Responsible for the development of the Lithuanian Sign Language Dictionary and research on Lithuanian Sign Language.

Collaboration and Projects

Collaboration with the National Education Agency: participation in in-service teachers' competencies development programmes through projects such as "Digital Transformation of Education (EdTech)" and "Keep Going: Come, Improve, Contribute!"

Collaboration with the Ministry of Culture of the Republic of Lithuania: the development of selection and evaluation criteria for the Cultural Passport program.

Cooperation with national educational institutions: an applied research commissioned by Maironis Progymnasium of Vilnius request: "Assessing Preschool Children's Cognitive (Critical Thinking) and Creativity Competencies through Language Education".

Comenius Association: Erasmus+ Teacher Academies project "Social Change Through Sustainable Communication in Lifelong Learning in Schools and Society".

Parenting Consortium (University of Malta, Nottingham Trent University (UK), Zuyd University of Applied Sciences (Netherlands), University College Leuven-Limburg (Belgium), HOWEST University of Applied Sciences (Belgium), Satakunta University of Applied Sciences (Finland)): a joint programme to strengthen parenting skills has been developed and implemented.

The Ministry of Education, Science and Sport of the Republic of Lithuania: project "Improving the Competencies of Sign Language Specialists".

Programmes of Interest

Themes and annexes of the European Horizon Programme, Action Group 2 „Culture, Creativity and Inclusive Societies“ on *Democracy, Cultural Heritage and Socio-economic transformation*.

COST Actions; European partnership programmes; Research Council of Lithuania projects; other international calls related to education, social protection, philology.

Contact information

Educology

PhD Lina Pečiulienė
l.peciuliene@pdf.viko.lt

Sociology

Jūratė Makauskienė
j.makauskiene@pdf.viko.lt

Philology

PhD Dalia Kačinė - Vrubliauskienė
d.vrubliauskiene@pdf.viko.lt

Philology

Anželika Teresė
a.terese@pdf.viko.lt

References

<https://pdf.viko.lt/>

<https://www.facebook.com/VIKOPDF>

https://www.instagram.com/viko_pdf?utm_source=ig_web_button_share_sheet&igsh=ZDNlZDc0MzIxNw==

The mission of the FACULTY OF HEALTH CARE – to prepare educated, highly qualified healthcare professionals who meet European standards and are able to compete and adapt to changing labor market conditions and societal needs. To meet the economic and social needs of the Vilnius region and all of Lithuania. To offer a wide selection of healthcare study programs, guarantee the quality of studies, and carry out applied scientific activities.

Topics of Scientific Research

- Disease management and prevention
 - Research on the effectiveness of beauty services and their impact on health, skin and psychological well-being (health literacy)
 - Environmental and personal health research
 - Technologies and innovations in the context of healthy eating
 - Innovative and holistic implementation of the nursing process
- *15 doctors of science who carry out applied scientific activities in the field of biomedical sciences.*

Laboratories

Microbiology. Cosmetology.

Collaboration and Projects

- “Study and evaluation of a prototype of a movement training device for children (2 to 7 years) weighing up to 20 kg”
- “Automated artificial intelligence platform for potential disease identification and a centralized database of diseases and illnesses worldwide”
- “Virtual advice, education, global action guidelines, research and development for physical activity and sport: the VANGUARD project”

Programmes of Interest

Horizon Europe, European Partnerships etc.

Contact information

Disease management and prevention

PhD Zyta Kuzborska, z.kuzborska@spf.viko.lt

Effectiveness of beauty services and their impact on health, skin and psychological well-being (health literacy)

Vaiva Suchodolska, v.suchodolska@spf.viko.lt

Environmental and personal health research

PhD Simona Paulikienė, s.paulikiene@spf.viko.lt

Technologies and innovations in the context of healthy eating

Rasa Jonušienė, r.jonusiene@spf.viko.lt

Innovative and holistic implementation of the nursing process

PhD Jurgita Kazlauskienė, j.kazlauskiene@spf.viko.lt

References

<https://spf.viko.lt/>

<https://www.facebook.com/profile.php?id=100057239546887>

The mission of the **FACULTY OF CIVIL ENGINEERING** is to prepare highly qualified, responsible specialists capable of contributing to the creation of a sustainable society; to carry out applied research focused on sustainable construction, building modernization, digital modeling of structures, sustainable transport management, green technologies, and other areas and innovations related to construction engineering and management; to ensure that the results of scientific research and technology development are accessible and beneficial to society and business.

Represented Fields of Research

Construction Engineering. Management.

Topics of Scientific Research

Sustainable construction

- Utilization of Waste and Additives in Cementitious Mixtures
- Analysis of Sustainable Construction Products
- Evaluation of Building Energy Performance and Airtightness
- Sustainability of Occupational Safety Requirements Implementation on Construction Sites

Building Modernization

- Efficiency of Building Modernization Projects
- Geodetic Measurements for Bridge Stability Assessment
- Optimization of Engineering Systems Efficiency

Sustainable Transport Management

- Transport Organization and Management
- Eco-Friendly Transport Management Strategies

Digital Modeling of Structures

Scanning of Buildings and Environment Using 3D Laser
Scanning Equipment

Researchers

Scientific research at The Faculty of Civil Engineering is conducted according to the faculty's priority fields. The group of researchers in the field of Construction Engineering consists of 11 researchers, including 7 PhD holders, while the group in the field of Management consists of 8 researchers. More than 25 publications have been prepared during the last two years.

Laboratories

- Laboratory of Materials Science and Standardization
- The Center of Engineering Systems: Engineering Systems Laboratory and Thermal Energy Laboratory
- Photogrammetry Laboratory
- Geodesy Laboratory
- Logistics Practical Training Center
- Virtual Reality Classroom
- Climate Change Laboratory (ILCA)

Collaboration and Projects

- EIT Climate-KIC EIT HEI iniciatyvos projektas Nr. 220194 "Innovation Laboratories for Climate Actions – ILCA"
- „Horizon 2020“ projektas „EnRRICH – Enhancing Responsible Research and Innovation through Curricula in Higher Education“
- Erasmus+ strateginės partnerystės projektas "ENGaged ReseArch coNnecting Community with higher Education (ENtRANCE)"

Programmes of Interest

The European Horizon Programme, Action Group 2 „Global Challenges and European Industrial Competitiveness,“ Action Group 5 „Climate, Energy, and Mobility,“ the instrument of the European Horizon program „Hop-On“, COST, Citizens, Equality, Rights, and Values (CERV). Other international program calls related to the fields of construction engineering and management science field.

Contact information

PhD Andrius Gulbinas a.gulbinas@stf.viko.lt
Administration administracija@stf.viko.lt

References

[Fakulteto puslapis](#)
[Facebook](#)

Represented Fields of Research

Mechanical Engineering; Transport Engineering; Measurement Engineering.

Areas of Scientific Research

- New Manufacturing process
- Materials and technologies
- Advanced structures
- Smart, clean, connected and sustainable transport
- Health diagnostics of various mechanical systems

Topics of Scientific Research

- Industrial environmental pollution studies. Particle agglomeration modelling and experimental studies. Diagnostics and monitoring of mechanical systems
- Vibrodiagnostics of static and dynamic mechanical systems
- Research on the dynamic properties of vehicles; Research on the energy and eco-efficiency of environmentally friendly transport
- Vibroacoustic, temperature, noise, contamination, surface quality and other measurements of mechanical systems

Researchers

13 Researchers – actively working in the mentioned fields of research.

Award: Researcher of the Faculty received the award of President of the Republic of Lithuania (2023) for the best dissertation in the field of technology.

Laboratories

- Mechanics Laboratory;
- Engine Laboratory;
- Automotive Diagnostic Laboratory;
- Automation and Mechatronics Laboratory.

Collaboration and Projects

RDI Collaboration and projects:

- Design of non-standard galvanized metal structure and thermodynamic analysis of welding points
- Investigation of diagnostic indicators and wheel imbalance of Lexus IS200t car engine

Research has been conducted and published in high-rated journals. Some examples:

- The influence of hydrogen and oxygen (HHO) gas on engine characteristics under the effect of the lean mixtures of gasoline and bioethanol
- The influence of biogas energy concentration on the combustion process and emissions of a compression-ignition engine using dual biofuels

Faculty Researchers participated in the following projects:

- Horizon Europe HEI Initiative programa – „Innovation Laboratories for Climate Actions“.
- Erasmus+ programa – „Multilingual Car Mechanics E-Pictionary“;
- Švietimo mainų paramos fondas – „Hybrid Teaching: Empowering Educators for the Future“;

Programmes of Interest

The European Horizon Programme, Action Group 5 „Climate, Energy, Mobility“, the European Horizon Programme, Marie Skłodowska-Curie Actions - Staff Exchanges, COST, Innovation Agency calls.

Contact information

PhD Vytenis Surblys, v.surblys@tef.viko.lt
<https://vtdko.lt/technikos-fakultetas/>

The mission of the FACULTY OF BUSINESS MANAGEMENT – to implement modern higher education studies that meet European standards through the efforts of a socially responsible academic community. It aims to ensure the development of nationally and internationally recognized applied scientific research by effectively collaborating with the business sector to foster students' successful professional careers and contribute to the well-being of the Vilnius region and Lithuania.

Represented Fields of Research

Seven study programmes are conducted within the framework of developing the **Management research field**: Advertising Management, Creativity and Business Innovations, Tourism Management, Hotel and Restaurant Business, International Business, Organizational Management, Public Relations.

Areas of Scientific Research

- Business process and innovation management
- Culture, creativity, and an inclusive society
- Marketing and communication

Topics of Scientific Research

- Corporate social responsibility and sustainable management
- Human resource management
- Hospitality and tourism process management
- Business processes
- Innovation management
- Communication
- Marketing

Researchers

The Faculty employs approximately **70 researchers**, 24% of the Faculty members hold a PhD. About 28% of the lecturers are industry practitioners from business enterprises.

Laboratories

Creativity Lab, Advertising Lab, Sustainable Innovation Lab.

Collaboration and Projects

Published articles cover the following topics:

- Application of artificial intelligence in the logistics sector, innovative marketing strategies, and sustainable communication.
- The impact of advertising on sustainable mobility and technology integration in supply chains.
- Sustainable digital marketing and supply chain management tools.
- Public sector management.
- Consumer behavior studies in online stores.
- Characteristics of sustainable marketing. IT and craftsmanship advertising in Lithuania.

Publications are indexed in databases, including *Scopus* and *Web of Science*.

Examples of Project Experience

From 2024 to 2026, the Faculty is implementing the Erasmus+ funded project "INTELLIGENT: INnovative TEaching and Learning of GENerations Z and Alfa in Higher Education." During the project, scientific research will be conducted to develop a more effective and technologically advanced entrepreneurship teaching and learning methodology for Generation Z and Alpha students, in collaboration with European higher education institutions, adult education providers, and business organizations. The Faculty has also successfully completed the Nordplus program project "VAKEN SUSTAINED," which resulted in the development of the VAKEN methodology for enhancing students' soft skills. The methodology has been the basis for research and scientific publications.

Svarbiausi įgyvendinti užsakomieji tyrimai 2023–2025 metais:

- Study on the social value of products for youth
- Market research on healthy and balanced food subscription services
- Improving the quality of social services in organizations
- Enhancing service quality and accessibility in organizations
- Customer opinion research on e-commerce platform rentals
- Lithuanian market participants' perceptions of folk art and national heritage crafts
- Consumer behavior study on choosing parcel lockers and courier services, with the focus on sustainability
- Creation of a business plan

Programmes of Interest

The European Horizon Programme, Action Group 2 "Culture, Creativity, and Inclusive Society", the instruments of the European Horizon program including COST, Citizens, Equality, Rights and Values (CERV).

Other international funding calls relate to business process and innovation management, culture, creativity, inclusive society, marketing, and communication.

Contact information

administracija@vuf.viko.lt

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