Klaipėdos valstybinė kolegija

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APPLIED RESEARCH AND INNOVATION

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Klaipėdos valstybinė kolegija

WE SOLVE PROBLEMS BY CREATING VALUE

The College offers collegiate studies based on professional practice and applied scientific research, experimental development, higher collegiate education, and opportunities for lifelong learning. The College's social responsibility is linked to the sustainable development of the region through cooperation with local community, business, and government groups and by fostering the ability of individuals and communities to think independently and creatively. The unity of science and studies at the College is ensured through close links with practice – the participation of lecturers and students in applied research and experimental development work commissioned by business, industry, and other organizations, in regional development projects, and in consulting activities.

The priorities and topics of the College's research and experimental development (hereinafter referred to as R&D) are formed taking into account Lithuanian and international scientific priorities, the needs of the country and the College, the country's smart specialization priorities, taking into account the latest scientific trends, strategic provisions for sustainable economic development, the needs of scientific services for the private and public sectors, international scientific cooperation programs, study needs, and the competence of the College's researchers.

THE COLLEGE'S R&D PRIORITIES:

- Sustainable Environment
- Information and Communication Technologies
- Health Technologies and Biotechnologies
- Inclusive and Creative Society

R&D PRIORITY

Sustainable Environment

Meeting the Needs of Existing and New End Users, Improving Energy Efficiency and Smartness

EXAMPLES OF RESEARCH:

- Building management systems and efficient energy use – methodologies for selecting and evaluating building management systems have been developed, taking into account the efficient use of energy in buildings. A mobile application has been created to help users choose the most suitable system according to their individual needs and energy efficiency criteria.
- Research on the luminous and electrical parameters of artificial light sources – an algorithm for selecting LED lamps has been developed. Methods and ways to improve the efficiency coefficient of LED light sources have been identified.

EQUIPMENT USED FOR RESEARCH:

- Data visualization and analysis software.
- Server infrastructure, PostgreSQL database, Next.js and React Native environments for implementing solutions.
- Excel Solver Add-in for optimization, linear and nonlinear programming, solution search, and other mathematical modeling tasks.

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New Manufacturing Processes, Materials, and Technologies (1)

EXAMPLES OF RESEARCH:

- Research into the interaction of ultraviolet (UV) rays with the surfaces of construction products and assessment of their impact on product quality, with a view to improving coating quality and effectively reducing the impact of UV radiation – theoretical and experimental research carried out scientifically based recommendations were provided for improving the quality of coating elements and reducing the impact of UV radiation.

• Determination of the mechanical and physical properties of building materials using waste products – it was found that rubber granules and pozzolanic waste can be used in cement composites as a partial alternative to sand or cement, and small amounts of them improve performance properties (frost resistance, density, strength) and reduce environmental pollution and raw material costs.

INTERNATIONAL PARTNERS:

- University of Madeira.
- Latvia University of Life Sciences and Technologies.

EQUIPMENT USED FOR RESEARCH:

Environmental impact chamber Solarbox1500E CO.FO.ME.GRA, SBX1500E.

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New Production Processes, Materials, and Technologies (2)

EXAMPLES OF RESEARCH:

- Research into control methods for the transformation of a two-wheeled hybrid pendulum/balancing mobile robot – a mathematical model of the hybrid mobile robot's drive and a control method were developed, allowing this type of robot to switch from a swing robot configuration to a balancing robot configuration and back again.
- Research into the dynamic properties of the construction of a two-wheeled hybrid swing/balance mobile robot – a method for identifying the inertial parameters and operating frictions of the hybrid robot's sensor platform and the robot itself was developed and tested experimentally.

EQUIPMENT USED FOR RESEARCH:

- Scilab scientific computing software environment.
- 3D CAD design software.

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Clean, Environmentally Friendly and Sustainable Transport Technologies

EXAMPLES OF RESEARCH:

- Car reliability research – a quarter model of a car suspension was created for modelling the dynamic processes of the suspension.
- Development of an optimal model for the safe operation and maintenance of electric vehicles – changes in the composition of the car fleet by fuel type in partner countries were investigated and instructions for working with electric vehicles were prepared, based on the safety requirements set out in the technical documentation.

INTERNATIONAL PARTNERS:

- Riga Technical University.
- Warsaw University of Technology.
- Silesian University of Technology.
- University of Ruse Angel Kanchev.

EQUIPMENT USED FOR RESEARCH:

- Combined gasoline engine exhaust gas analyzer and diesel engine smoke meter.
- Electric vehicle diagnostics and maintenance test bench.
- Test bench for CR-type diesel and other pumps and injectors.
- Computerized light vehicle traction and speed test bench, suitable for 4x4 vehicles.
- Computerized 3D measurement technology vehicle chassis geometry angle adjustment stand.

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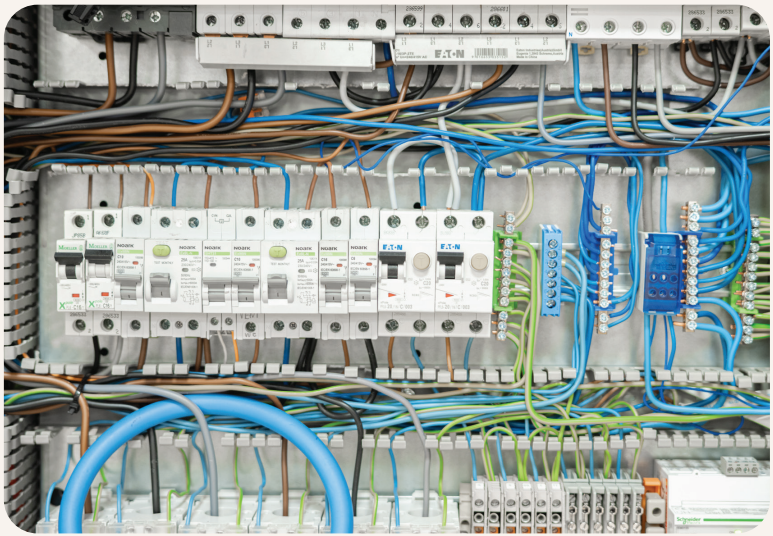
Strengthening the Interoperability of Distributed and Centralized Generation, Networks, and Efficient Energy Consumption

EXAMPLES OF RESEARCH:

- Corporate microgrid management model – a unique corporate microgrid management model based on simulation scenario analysis has been developed. The model allows for the assessment of energy consumption efficiency, ensures digital data visualization, and offers sustainable solutions for corporate electricity management.



INTERNATIONAL PARTNER:

Kahramanmaras Sütçü İmam University, (TUR).

EQUIPMENT USED FOR RESEARCH:

- Electricity measurement equipment (meters, data loggers) – Metrel meters and data loggers.
- Power quality analyzers – Metrel MI 2892 Power Master XT. Metrel MI 3125BT.
- Data visualization and modeling software.

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Sustainable Finance

EXAMPLES OF RESEARCH:

- Research on the investment skills of students at higher education institutions in Lithuania, Poland, Malaysia, and North Macedonia, focusing on sustainable financial decisions – a theoretical sustainable investment model and a tool for assessing investment skills have been developed.
- Modeling the impact of the economic environment on the financial decision-making of individuals and legal entities – an original model for forecasting the financial decisions of individuals and legal entities, based on an analysis of economic environment factors, has been developed and empirically tested.

INTERNATIONAL PARTNERS:

- Management (Malaysia).
- University of Tetovo (North Macedonia).
- University of Wroclaw (Poland).

EQUIPMENT USED FOR RESEARCH:

- IBM SPSS Statistics software.
- Bloomberg for Business data platform.

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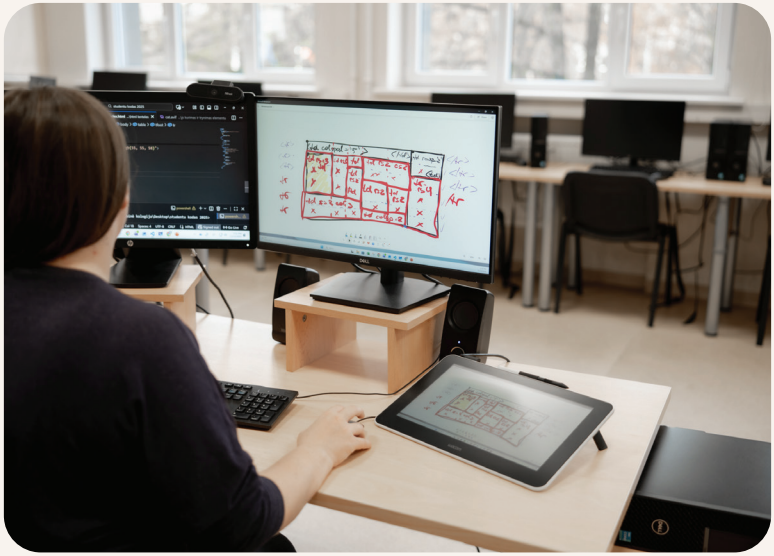
R&D PRIORITY

Information and Communication Technologies

Internet of Things

EXAMPLES OF RESEARCH:

- Creation of digital twins of real market objects and processes – a functioning digital twin that replicates a real JUNG smart apartment. A three-dimensional model of the apartment was prepared using design drawings and created 3D objects of furniture and equipment. This model was transferred to virtual reality, where the user can move around the environment, observe the rooms, and interact with smart devices.



EQUIPMENT USED FOR RESEARCH:

- 3D modeling and design: AutoCAD, SketchUp, Blender, 3ds Max.
- Game engines and visualization environments: Unity (with C#), Unreal Engine 5 (with Blueprints and C++).
- Programming: C# (in Unity environment), NET framework, C++ (partially used in Unreal Engine), Node.js (for API server emulation), JavaScript (partial integration, WebGL publishing).
- Development and management tools: Visual Studio Code, JetBrains Rider, Plastic SCM (for versioning).
- Virtual reality equipment: Oculus Quest 2, VR controllers, and Unity/Unreal VR modules.
- Other tools: WebGL (browser publishing), HTTP API (connection to JUNG smart home).

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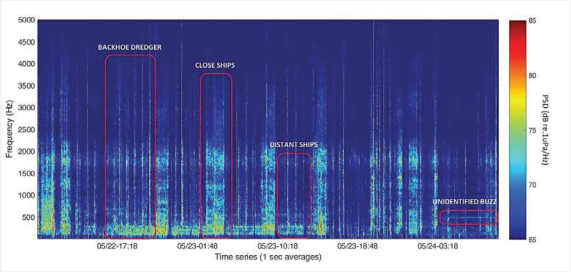
Process and System Modeling

EXAMPLES OF RESEARCH:

- Model of the fundamentals of information interactions for managing domain content updates – a model for identifying and updating domain management content based on modified Value Chains Model (VCM) and an Elementary Management Cycle (EMC). The EMC is the basic construct of enterprise management modelling, it refines the components of management (control) cycle as well as content of management information transformations. The current domain parameters derived from detailed VCM and EMC together with requirements are stored in the knowledge databases and can be used for solving specific problems of expected application areas.

EQUIPMENT USED FOR RESEARCH:

- CASE measures tools (IBM Rational RequisitePro™, MS Visio™, MagicDraw™).
- Computer software: database management systems (MS Access™, MySQL Server™).



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Software Development Technologies

EXAMPLES OF RESEARCH:

- Application of web services in the development of information management systems – a pilot system has been developed that allows users to send promotional emails about events, use pre-designed templates, and receive feedback on the status of emails.
- Intelligent Data Extraction and Matching System for Cargo Shipping Emails - An NLP-driven, microservices-based system was designed and implemented to automatically extract structured data from unstructured maritime emails and generate effective vessel–cargo matching recommendations.

EQUIPMENT USED FOR RESEARCH:

- **Cloud & Messaging Services:** Amazon SES, AWS, RabbitMQ, Redis.
- **Server-Side & Middleware Technologies:** Java, Spring Boot, ASP.NET 8, MediatR, FluentValidation, Mapster.
- **Client-Side Technologies:** Angular 7, TypeScript, SignalR.
- **Communication & Integration:** RESTful API, gRPC, Postman HTTP.
- **Data Storage & Persistence:** PostgreSQL, Marten ORM.

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R&D PRIORITY

Health Technologies and Biotechnologies

Wasteful Processing of Bio-Raw Materials into Valuable Components

EXAMPLES OF RESEARCH:

- Use of essential oils in the production of fish products – analysis of the effect of essential oils on sensory properties and antimicrobial activity to extend the shelf life of fish products.
- Research on the use of waste technologies and sustainable agrobiological resources in food production – biotechnology for the purification of valuable components from secondary raw materials and recipes for new products using secondary raw materials were developed, and the impact of bio-raw materials on the sensory, technological properties and nutritional value of products was assessed.

INTERNATIONAL PARTNER:

Istanbul Sabahattin Zaim University, Faculty of Engineering and Natural Sciences (TR).

EQUIPMENT USED FOR RESEARCH:

- High-performance liquid chromatograph (HPLC).
- Spectrophotometer (UV–Vis, FTIR).
- Microbiological safety cabinet, incubators, autoclave.
- Texture analyzer.

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Advanced Applied Technologies and Biotechnologies for Personal and Public Health and Social Care (1)

EXAMPLES OF RESEARCH:

- Application of exercises for core and leg muscle strength balance and functional mobility to prevent injuries in football players during the macrocycle – the model developed reduced the frequency of injuries by 32%, improved response, improved core muscle strength balance and increased hip and ankle joint mobility. The Functional Movement Screen (FMS) score increased significantly, indicating improved stability, mobility, and reduced risk of injury for football players.
- The effect of the motion correction band on skin texture and structure in different stages of cellulite – the developed model for the application of the motion correction band statistically significantly improved the structure of the skin dermis, maintained a stable skin moisture level, improved skin texture and thigh circumference.

EQUIPMENT USED FOR RESEARCH:

- Functional movement screen (FMS).
- MediBalance Pro.
- FreeStep.
- Body analyzer.
- KinesisGait.
- Reaction Meter RA-1.
- Y Balance test.
- Cortex Dermalab Combo4.
- Callegary Soft plus.

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Advanced Applied Technologies and Biotechnologies for Personal and Public Health and Social Care (2)

EXAMPLES OF RESEARCH:

- Clinical study of the relationship between patients' oral health, oral care habits, and harmful habits – an innovative digital tool for patient self-monitoring has been developed and implemented, allowing patients to record their oral health indicators, receive personalized recommendations, and thus increase the effectiveness of preventive measures.
- Periodontitis treatment and evaluation of its effectiveness using the Vector Paro Pro system – a database has been created to evaluate the effectiveness of the Vector Paro Pro system and the patient experience, and to develop a standardized periodontitis treatment protocol for clinical practice.
- Development of oral cavity care methodology and assessment of its effectiveness – developed and adapted a methodology for oral cavity care for patients, the effectiveness of which was evaluated by organizing patient training, performing professional oral hygiene for 25 subjects, and systematizing objective and subjective research data.

- Ergonomic assessment of the dental hygienist's workplace and research into minimizing the negative impact of musculoskeletal disorders – a unique tool wasdeveloped for the ergonomic assessment of dental hygienists' workplaces, allowing the identification of risk factors for musculoskeletal disorders and the development of a methodology for assessing workplace risks and determining preventive measures.

EQUIPMENT USED FOR RESEARCH:

- Two modern dental chairs with integrated intraoral cameras and PUMA ELI CASTELLINI monitors.
- Medit i600 intraoral scanner.
- Vector Pro Durr Dental Vector® Paro Pro.
- Shinecon VR10 virtual reality glasses.

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Advanced Applied Technologies and Biotechnologies for Personal and Public Health and Social Care (3)

EXAMPLES OF RESEARCH:

- The impact of emotional stress on the physiological and microbiological parameters of the skin – to determine the impact of emotional stress on the physiological and microbiological parameters of the skin, various aesthetic problems of the face and body, and the prevention of skin diseases.
- Methodology developed by The Limassol College (CY) to determine the optimal application exposure time to ensure the best Stratum Corneum parameters.

INTERNATIONAL PARTNER:

The Limassol College (CY).

EQUIPMENT USED FOR RESEARCH:

- Cortex Dermalab Combo4.
- Callegary Soft plus.
- Chimadzu Nexeera 3D.

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Advanced Applied Technologies and Biotechnologies for Personal and Public Health and Social Care (4)

EXAMPLES OF RESEARCH:

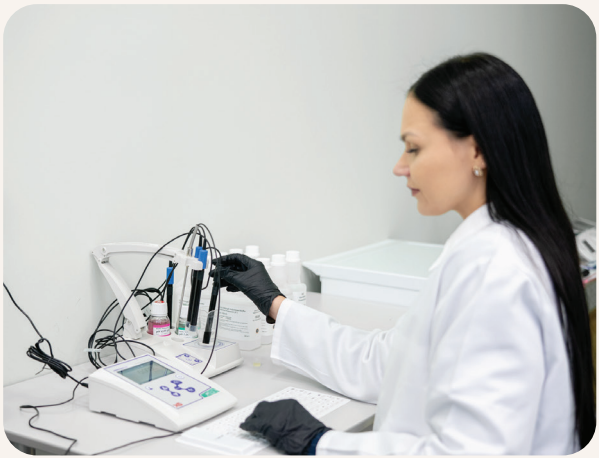
- Healthy aging – links between eating disorders and mental health have been identified, proposed methods for manipulating the gut microbiota have been introduced, and more effective preventive measures for these disorders have been developed. Scientifically based nutritional models for older adults, individuals with dysphagia, and people with eating disorders should be developed, which could serve as guidelines for food producers and consumers.
- Research into the demand for and production technologies of products for special nutritional purposes – a new product has been developed – bread with a lower gluten content – made from wheat processing products treated using biotechnological methods.
- Analysis of the structure and composition of food products: innovative quality improvement models – a comprehensive methodological model for the assessment of physical, chemical, and sensory parameters has been developed and validated, which allows determining how the content of sugar, dry matter, cocoa butter, and other components affect the rheological (viscosity, density, viscosity) and sensory properties of chocolate.

INTERNATIONAL PARTNERS:

- Istituti Paritari Fermi (Italy).
- Governorship of Kocaeli Bureau for EU and Foreign Affairs (Turkey).
- Coordinadora de Asociaciones de Personas con Discapacidad (Spain).
- Universidad de Zaragoza (Spain).

EQUIPMENT USED FOR RESEARCH:

- Titration and pH measurement equipment.
- Rotary evaporator.
- UV–Vis spectrophotometer.
- Microplate reader.
- Freeze dryer.
- High-performance liquid chromatograph (HPLC).
- Thermomix.
- Thermal processing equipment.



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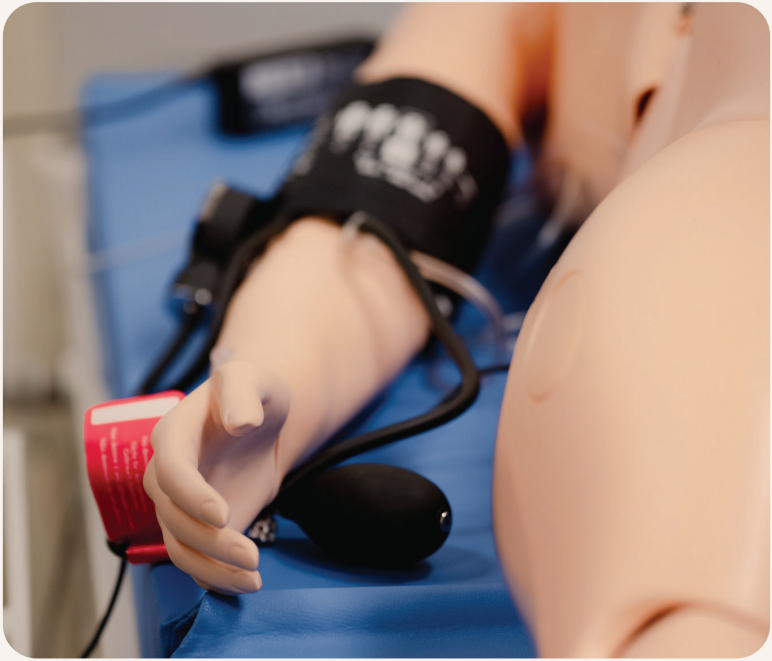
Advanced Applied Technologies and Biotechnologies for Personal and Public Health and Social Care (5)

EXAMPLES OF RESEARCH:

- Assessment of the relationship between stress and job satisfaction among healthcare center employees – a unique model for improving employee well-being was created using new knowledge-based ideas and a newly developed research tool that assesses the stress and job satisfaction experienced by employees.
- Hospital organizational culture, climate, and employees' attitudes toward work – a unique model for assessing hospital organizational culture and organizational climate and analyzing employees' attitudes toward work was created, based on new knowledge and a newly developed research tool that allows for a comprehensive assessment of the expression of organizational culture, the dimensions of the organizational climate, and employees' attitudes toward work.

- Application of health technologies to improve the efficiency of obstetric services – a model for improving the efficiency of obstetric services has been developed and tested in a pilot study, based on the latest scientific knowledge and the application of health technologies (e.g., remote monitoring of pregnant women), and a research tool was developed to assess the impact of technology on the quality, safety, accessibility, and patient satisfaction of midwifery services.
- Application of evidence-based nursing in inpatient care facilities – a comprehensive assessment of the level of application of evidence-based nursing (EBN) in inpatient care facilities. The knowledge, attitudes, skills, and competencies of nurses have been identified, as well as barriers to implementation and systemic and organizational factors that determine the implementation of EBN in clinical practice.

- Monitoring and improving the health status of older people using kinesitherapy interventions and mobile devices to collect real-time data on a person's health status – an implementation package for remote patient monitoring in the healthcare sector has been developed, covering: a training tool for healthcare staff on how to use the remote monitoring system, the adaptation of technology for clinical documentation, and an information tool for standardizing the application and integration of the system in practice.



• Adjustment of standardized nursing actions after assessing missed/unperformed/delayed nursing actions – a solution for adjusting standardized nursing actions based on empirical data has been developed, including an adapted B. Kalisch MISSCARE questionnaire for identifying missed/unperformed/delayed nursing actions, the most frequently missed nursing actions and their causes, and an assessment of the stress experienced by nurses. Delayed nursing actions, the most frequently missed nursing actions and their causes, the correlation between the stress experienced by nurses and the omission of nursing actions, and prepared evidence-based recommendations for standardized nursing action corrections to improve nursing quality and patient safety.

EQUIPMENT USED FOR RESEARCH:

• SimMom - an advanced, full-body simulator covering all stages of labor and birth.

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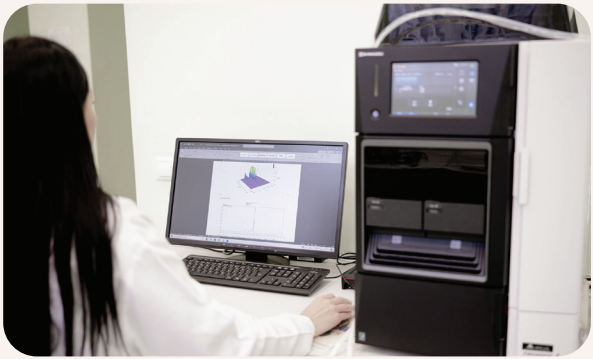
Sustainable Agrobiological Resources and Safe Food

EXAMPLES OF RESEARCH:

- The influence of biologically active components and other active substances in food products on slowing down the ageing process and their use in the production of functional products and supplements – a new formula for hydrogen-generating tablets based on polysaccharides (hydroxypropyl methylcellulose, magnesium salts, and excipients (dextrose, flavourings).
- Determination of the biological value of honeysuckle (Lonicera caerulea) berries and development of new flavouring technologies using these berries – a new technology for producing vinegar from honeysuckle berries has been developed; unique flavouring production technologies using honeysuckle berries have been developed.



EQUIPMENT USED FOR RESEARCH:

- UV–Vis spectrophotometer.
- Microplate reader.
- Rotary evaporator.
- Freeze dryer.
- High-performance liquid chromatograph (HPLC).
- Thermomix.
- Thermal processing equipment.

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R&D PRIORITY

Inclusive and Creative Society

Modern Education (learning) Technologies and Processes

EXAMPLES OF RESEARCH:

- Developing self-regulation skills in younger school-age children with behavioral disorders through play – a model has been created that reveals the links between the competencies and experiences of educators and the self-regulation characteristics of younger school-age children with behavioral disorders self-regulation characteristics, helping to better understand the interrelationship between these factors.
- Self-assessment of the quality of activities at Klaipėda nursery-kindergarten "X" in the context of developing a new pre-school education program – a model for improving the quality of activities at educational institutions has been created.
- Research into the emotional well-being of primary school pupils with special educational needs (SEN) – unique tools for assessing the emotional well-being of primary school pupils with SEN have been created and a program for improving their emotional well-being has been developed.
- Use of artificial intelligence in the education of preschool and pre-school children – a preliminary methodology has been developed, covering the possibilities of applying digital technologies in the preschool and pre-school education process.

- Analysis of the learning motivation situation of lower school-age students with higher abilities – learning motivation models have been developed (intrinsic, extrinsic, and achievement motivation), allowing the identification of the main factors determining the learning motivation of gifted students in grades 3–4.
- Professional growth and mentoring of teachers – creation of an integrated mentoring and professional growth model/training program for teachers, based on empirical research. The model is based on an analysis of the context of mentoring in educational institutions, ensuring the harmonization of mutual relationships and mutual professional growth.
- Music in preschool education: STEAM education experiences – a methodological tool has been developed for art teachers and students, which, by providing methodological assistance and examples of ideas for applying the STEAM method (especially by integrating all STEAM areas), solves the problem of the lack of such examples experienced by art teachers.

- Interaction between families and teachers in organizing the pedagogical education of parents of preschool-age children with special educational needs – recommendations have been formulated for preschool teachers and parents, focused on ensuring quality education when working with children with special educational needs in general education institutions, while also providing directions for the organization and improvement of pedagogical education.
- Conceptualization and application of the competencies of primary school teachers working with the STEAM education methodology in an inclusive, creative society – defined the general, professional, and special competencies required of teachers applying the STEAM education methodology and highlighted the importance of an integrated-holistic level of competency, allowing for more targeted training of future specialists and more successful integration of STEAM education into primary education.

- Creation of a project-based teaching (learning) model in virtual learning environments for primary education – a methodology has been developed that allows for the exploration of the possibilities and conditions for incorporating STEAM educational activities into the primary education program and the attitudes of teachers in the context of an international school.
- Education of preschool children with learning difficulties due to delayed development in STEAM activities – a methodology has been developed for involving neurotypical and delayed development preschool children with learning difficulties in STEAM activities.

INTERNATIONAL PARTNERS:

- Istanbul Gelisim University, Turkey.
- Riga Technical University, Latvia.

EQUIPMENT USED FOR RESEARCH:

- BeeBot bees.
- Photon robot.
- iMO cubes.
- Microscopes.
- Kits for experiments with air and water.
- Nature experiment kits.

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Innovative Models of Organizational Activity

EXAMPLES OF RESEARCH:

- Possibilities for implementing environmental sustainability principles in IB activities – key parameters for integrating environmental sustainability principles in simulated companies have been identified and the feasibility of the concept has been proven. Based on the new knowledge gained, environmental sustainability principles can be implemented and adhered to in simulated companies.
- Modelling sustainable development of regions and communities – a unique model for improving air connectivity of the Klaipėda region was developed, integrating the expansion of flight routes and seasonality mitigation measures, actions aimed at improving airport infrastructure accessibility, as well as communication and marketing solutions for promoting Western Lithuania. The model not only identifies opportunities to develop air connectivity of Western Lithuania in a sustainable manner and addresses its economic and social uniqueness, but also enables the minimization of negative challenges related to air accessibility to Lithuania.

EQUIPMENT USED FOR RESEARCH:

- The SPSS software.

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Social and Cultural Innovation Aimed at the Creation of Products and Services for Society (1)

EXAMPLES OF RESEARCH:

- Contemporary challenges in customer service – a model of the visitor experience ecosystem in the hospitality sector was created and empirically tested, assessing its functioning in the context of the hospitality sector in the Šilutė district and identifying the factors that determine the visitor experience.
- Research on visitor satisfaction with the Lithuanian Sea Museum's services and the creation of visitor service standards – a systematic visitor service standard for the Lithuanian Sea Museum has been developed. In order to ensure its effective implementation and accessibility not only to museum staff but also to external service providers on the museum premises, a visual format of the standard was created for practical application and consistent improvement of the visitor experience.

- Strengthening the resilience of higher education institutions by implementing sustainable development principles: a pilot study – the latest knowledge on the importance of integrating sustainable development principles into the higher education process in order to strengthen the resilience of higher education institutions was obtained. The hypothesis that the understanding of academic staff at EU higher education institutions of the importance of integrating sustainable development principles into the study process is more valuable than that of Ukrainian higher education institutions in strengthening their resilience was tested and rejected. The essential parameters for strengthening the resilience of higher education institutions through the application of sustainable development principles have been identified, and the value of implementing this concept has been proven.

INTERNATIONAL PARTNERS:

- EKA University of Applied Sciences, ISMA University, Latvia.
- Kyiv National University of Technologies and Design, Ukraine.

EQUIPMENT USED FOR RESEARCH:

- Quantitative data is analyzed using the SPSS15 software package.
- PSPP software.
- Specialized NVivo software is used for the analysis of interview and qualitative research data.

- Stakeholder participation in the implementation of social responsibility and sustainable development in companies – a detailed analysis of the LNOB index of the Baltic Sea Region countries was carried out, based on the four aspects of the index, highlighting progress and challenges in the field of sustainable development.
- Ethical issues in the use of generative artificial intelligence tools in higher education: cross-border study – the latest knowledge on the ethical aspects of using generative artificial intelligence tools in higher education was obtained and several future research topics on the ethical use of generative artificial intelligence tools in higher education were identified.

INTERNATIONAL PARTNERS:

- Department of Management, ISMA University of Applied Sciences, Latvia.
- Scientific Research and Innovation Activities Institute, Vasil Levski National Military University, Bulgaria.

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Social and Cultural Innovations for the Development of Products and Services for Society (2)

EXAMPLES OF RESEARCH:

- Awareness of emotion management among lecturers working in health and social care programs when working remotely – a unique emotion recognition tool has been developed for higher education lecturers working remotely, using innovative technologies to ensure automated initial feedback to research participants and a training methodology related to the application of specific emotion management strategies to increase student motivation and engagement in the learning process.
- Development of a unique therapeutic methodology for nursing home residents with dementia – a unique experimental research tool and a therapeutic methodology based on new insights have been developed to improve the condition of people with dementia.

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Social and Cultural Innovations for the Development of Products and Services for Society (3)

RESEARCH EXAMPLES:

- Digital investment by individuals – a tool for individuals to choose digital investment instruments has been created.
- Borrowing habits of individuals – identified factors influencing the borrowing habits of individuals and revealed changes in the borrowing habits of individuals in Klaipėda city and Klaipėda district.
- Possibilities for harmonizing the content of financial statements of small partnerships and micro-enterprises – a theoretical universal set of financial statements adapted to micro-enterprises (micro-businesses) and small partnerships has been created.

- Communication and data transfer between the centralised accounting departments of budgetary institutions and municipal budgetary institutions in the context of changes in the accounting system of budgetary institutions in the Republic of Lithuania – a model for communication and data transfer between the centralised accounting departments of budgetary institutions has been created.

INTERNATIONAL PARTNERS:

- ArtSmart (Latvia).
- Anmiro Oy (Finland).

EQUIPMENT USED FOR RESEARCH:

- IBM SPSS Statistics software.
- Rivilė GAMA business management and accounting software.
- Bloomberg for Business data platform.

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