

APPROVED

By the Academic Board of Utena College
Decision No. AT-41 of 17 November 2022

THE PROGRAM OF SCIENCE APPLIED ACTIVITIES OF UTENA COLLEGE 2022-2024

I. SITUATION ANALYSIS

In 2022, Utena College began implementing the Utena College Strategic Activity Plan for 2022-2024. The second strategic goal set in this plan is - To develop applied scientific activities, research, and lifelong learning services relevant to the region and the country.

The college conducts applied scientific research and experimental development in accordance with the Law on Science and Studies of the Republic of Lithuania.

In 2020 and 2021, the College's lecturers published 39 publications in peer-reviewed scientific journals in Lithuania and abroad. The largest number of publications was published in the fields of Social Sciences Management (Tourism Development Issues, Business Environment, Problems of Business Creation and Development) and Medical and Health Sciences Nursing (Problems of Nursing Practice), Dentistry (Oral Care and Dental Restoration Issues) and Natural Sciences Ecology and Environmental Studies (Problems of Environmental Protection). However, *in the fields of Public Health of Medical and Health Sciences, Informatics Engineering, and Materials Engineering of Technological Sciences, no publications were published in 2020 and 2021. It is appropriate to substantially strengthen the publication of research results conducted in these scientific fields in 2022.*

College researchers, teachers, and administration also perform other applied scientific work - organize scientific events, carry out publishing, give presentations at scientific conferences, involve students, College partners in scientific activities, etc. Most indicators of this activity in 2021 were significantly lower than in 2020. This was due to the quarantine announced due to the Covid-19 pandemic, which limited a large part of events and other applied scientific activities.

The College encourages student scientific activity, organizes traditional international student scientific practical conferences "A Country Where It's Good to Live", seminars, and scientific paper competitions. Students are involved in commissioned and applied scientific research conducted by College lecturers, preparation of scientific articles in scientific publications, reading reports at conferences of students of other higher education institutions - young researchers, etc.

The College participates in scientific research and experimental development (hereinafter - R&D), consulting activities for the region and the country, developing project activities and providing non-formal education services. The conditions and opportunities for participation in R&D and regional development projects are determined by the state's regional policy, reliable partnership in national and international projects, cooperation with scientific and educational institutions, social partners (associations, business enterprises, healthcare, educational, training institutions, local government institutions, non-governmental organizations, etc.).

As part of the College's **commissioned project-based applied science activities** in 2020-2021, 6 projects were implemented: 1) "Development and Introduction of a Communication Competencies Model for Enhancing and Maintaining a Business Mentor Network. DICCMEM (Erasmus+, KA2)" (2020-2021). The aim of this interdisciplinary project is to investigate the barriers to mentor-learner communication and propose solutions to strengthen and maintain the business mentor network using communication technologies. During the project, an international group of scientists, including 3 researchers from the College, prepared the monograph "Communications

Skills for Mentors and Mentees in Entrepreneurship : Theory and Practice” (2020) and 1 scientific article published in a Latvian scientific journal. This project also prepared electronic workbook (Handbook , 2020) for business consultants; 2) Project “Code – Keys to Success” (2020); 3) Event “Business Bridges” (2020); 4) Project “Network Water Quality and Food Safety 2020' (Nord Plus); 5) Project "Start a career with an idea" (2021); 6) "Developing youth citizenship skills by encouraging them to engage in the life of local communities" (2021).

In the course of monitoring, analyses, and research studies, 2 studies were conducted in 2020 - "Study of the attitude of Utena city residents towards the management of bulky and hazardous waste generated in households" (Utena District Municipality Administration) and the applied scientific work "Creation and preparation of a mobile application for exploitation" (Utena District Vyžuoniškės Community "Vyžuona"). In 2021, 1 study was conducted "Management and adaptation of green areas (greeneries) of the city of Utena to the needs of society: a study of residents' opinions", commissioned by the Utena District Municipality.

Additional competences, qualification improvement events, consulting activities are carried out in 2 directions: consultations are provided to individuals in the field of healthcare and consultations are provided to unemployed individuals in the fields of entrepreneurship development and business creation. *In the first direction, consultations in the field of healthcare* are provided by the College's lecturers in the modern practical base of the Faculty of Medicine. In 2020 and 2021. the number of consultations decreased significantly due to the Covid-19 pandemic. *Consultations in the second direction are provided to meet the needs of the business sector* consultations were not carried out, however, in 2020, in the implementation of 3 projects " New Skills - New Opportunities", "Business Tasting", "Generation Y for the City", consultations were provided to economically inactive youth and unemployed people under 29, unemployed people over 29 on SME development issues, advertising and marketing issues, and personal growth issues. "New Skills - New Opportunities" provided 280 hours of individual consultations on communication skills development and digital skills development to 80 participants. In the "Business Tasting" project, 60 people were provided with 240 hours of consultations on personal brand development issues, and 208 hours of consultations on advertising development and marketing issues were provided to 52 participants of the "Generation Y for the City" project. Almost 200 people received consultations. In total, the College's lecturers provided 720 hours of consultations.

In 2021, the number of outsourced project activities, dental and cosmetology care consultations and the amount of funds earned decreased. The number of non-formal education training courses remained the same as in 2020, and the amount of funds earned increased slightly. The number of research, applied scientific works and earned funds have been decreasing for the past 3 years. This was due to several factors: disruptions caused by the Covid-19 pandemic, insufficient financial capabilities of the regional public sector and enterprises, insufficient use of the potential of teachers as researchers to find project research funding, etc. It can be stated that *the development of outsourced research and applied scientific works with a certain financial reward is an area of the College that needs improvement.*

The College's research and experimental development work is annually evaluated by the Ministry of Science and Technology of the Republic of Lithuania. Depending on the results of this evaluation, the Ministry allocates incentive funds to the College for the development of applied science activities: For the activities carried out in 2019, 26.1 thousand euros were allocated, for 2020 - 38.9 thousand euros, for 2021 - 26.7 thousand euros. The incentive funds are purposefully used to publicize studies and applied science activities in various publications, study and scientific events, organizing scientific practical conferences, training for academic staff on research topics, for tools and services for conducting research and applied work in engineering, technology, informatics, health sciences, etc.

Starting from 2021, in accordance with paragraph 4 of the “Regulations on the Annual Evaluation of Colleges’ Scientific Research, Experimental Development and Artistic Activities”, the College submits R&D results to the Lithuanian Ministry of Science and Technology and scientific works to the Research Council of Lithuania (hereinafter referred to as the LMT).

II. PROGRAMME GOAL AND OBJECTIVES

PROGRAM GOAL – to strengthen the quality of the College's scientific activities by implementing the College's strategic activity plan for 2022-2024, thereby influencing the development of the country and the region.

PROGRAM OBJECTIVES:

1. To develop scientific activities (research, experimental development, publications) through project and other initiatives with Lithuanian higher education institutions, municipal administrations of the Utena region, and other social partners, solving problems relevant to the country and the region;
2. To develop the established international partnerships for applied scientific research, experimental development, and publication, thereby increasing the internationality of scientific activities;
3. To carry out socially responsible scientific work orders and consultations for national and regional entities, to expand the scope of commissioned research and applied scientific work for financial reward;
4. Increase the number of scientific publications in high-ranking scientific journals and other scientific publications;
5. To ensure the application of the results of applied scientific research and experimental development work in the studies conducted by the College;
6. To organize traditional international and national scientific and practical conferences, developing scientific discussion on relevant issues;
7. Involve students in research conducted by faculty research groups;
8. To develop the scientific competence of teachers.

III. EVALUATION CRITERIA

The implementation of the program's goal and objectives will be assessed according to the following evaluation criteria:

- 3.1. number of published scientific publications (scientific papers);
- 3.2. commissioned project activities - earned funds;
- 3.3. participation in international programs (from 2023) - funds received under the project agreement per year (thousands of EUR);
- 3.4. granting of additional competencies, improving qualifications, seminars, other educational activities (only in 2022);
- 3.5. consultations (only in 2022);
- 3.6. improving the scientific competence of teachers;
- 3.7. improving students' scientific competences and involving them in scientific activities;
- 3.8. Application of the results of research and experimental development work carried out at the College in studies;
- 3.9. The impact of the scientific activities carried out by the College on the development of the country and the region.

IV. PROGRAMME IMPLEMENTATION

4.1. The program is implemented by planning and carrying out scientific activities at the institutional, faculty, department and lecturer levels, taking into account the provisions of the Utena College lecturer workload accounting procedure.

4.2. The implementation of the program is coordinated by the Deputy Director for Studies and Research.

4.3. Scientific activity, publication and dissemination of the results of this activity are mandatory for associate professors/professors. It is recommended that scientific activity, publication and dissemination of the results of this activity constitute at least 33 percent of the total workload of an associate professor/professor and at least 25 percent of the total workload of a lecturer.

4.4. Scientific activities are carried out by researchers or research groups approved by order of the dean of the faculty. or individual researchers. These groups are encouraged to include beginning researchers and motivated students interested in scientific activities in their activities.

4.5. Research groups are led by leaders/coordinators, who are usually scientists or lecturers with research experience.

4.6. The leader/coordinator of the research group is responsible for drawing up guidelines for activities in a specific scientific field, implementing them and, if necessary, adjusting them.

4.7. Research group leaders/coordinators are encouraged to unite research groups in conducting interdisciplinary applied research and experimental development work.

4.8. The program is implemented in accordance with the College's strategic plan for 2022-2024.

4.9. At least once a year, the implementation of the Program is discussed at the College, faculty and department levels.

V. PROGRAM PLAN

Field of study, code: Social sciences S 000 Field of study, code: Management S 003 Field of study, code: Business and Public Management: Tourism and Leisure L08 Thematic area: Tourism development issues								
Seria l No.	Activity/study title	Customer (if any)	Research team leader, participating researchers	Students included	Start and end dates for the activity/st udy	Equipment used and other material resources	Funds earned and/or impact on society/region/countr y	Dissemination of results
1.	Research on tourists' attitudes towards responsible consumption	-	Head - Dr. R. Narkūnienė	U. Šinkūnaitė TA-19I gr . student	2023	Scientific literature, PSPP	The research will have an impact on current and future consumers	"Insights" or 17th International Scientific

	in the tourism sector						of tourism services. The results of the research will contribute to the promotion of responsible consumption, thereby achieving the goals of responsible consumption: contributing to the quality of life of the world's people and future generations, improving life on the planet, etc.	Conference " Society . Integration . Education - SIE2023" 26-27 May 2023, in Rezekne , Latvia . Publication in the conference proceedings in the SCOPUS database
2.	Development of virtual tours in Utena region	-	Dr. J. Daubarienė	-	2023	Scientific literature	Impact on the region by promoting cultural and tourism resources and attracting Lithuanian and foreign tourists	Publication in the Utena College scientific journal "Insights"
3.	Survey of the opinions of Utena district residents about the activities of the Utena Museum of Local Lore	Utena Museum of Local Lore	Head Dr. R. Narkūnienė	S. Striupienė TA-19I gr . student	2023	Scientific literature, PSPP	The research and its results will have an impact on the activities of the Utena Local History Museum and its departments, aiming to make the activities of the museum and its departments more efficient, attract a greater number of	In a peer-reviewed international journal cited in databases

							visitors, as well as on the residents of the city and district of Utena and visiting visitors, enriching them culturally, spiritually and in other ways, contributing to the enrichment of their cultural life , etc.	
4.	Research on the optimization of services provided by the Utena Museum of Local Lore (continued research)	Utena Museum of Local Lore	Dr. R. Narkūnienė, J. Aksomitienė	-	2024	Scientific literature,	The research and its results will have an impact on the activities of the Utena Museum of Local Lore and its departments, aiming to make the activities of the museum and its departments more efficient, attract a greater number of visitors, as well as on the residents of the city and district of Utena and visiting visitors, enriching them culturally, spiritually and in other ways, contributing to the enrichment of their cultural life, etc.	In a peer-reviewed international journal cited in databases
5.	Development of a sustainable tourism sector		Dr. R. Narkūnienė		2024	Scientific literature	The research on the presented topic will have an impact on the general understanding of the development of	"Insights" or in a peer-reviewed international journal cited in databases

							sustainable tourism in the tourist region (s)	
Field of study, code: Social sciences S 000 Field of study, code: Management S 003 Field of study, code: Business and Public Management: Management L02 Thematic area: Business environment, problems of business creation and development								
1.	Analysis of factors that stimulate employee creativity and innovation based on the example of European higher education institutions	-	Supervisor: Dr. R. Meištė Researchers: R.Puidokaitė - Savickienė; Dr. S. Jakštienė	-	2023-2024	Scientific literature	Impact on the active involvement of higher education staff in the study process, applying creative and innovative work/research methods. Impact on communication and cooperation of researchers, improving foreign language skills, promoting internationality. Strengthening the image of the college at the national level.	In a peer-reviewed international journal cited in databases
2.	Forecasting Lithuanian dairy sector exports to Northern European countries in the context of the COVID-19 pandemic	-	Head - Dr. S. Jakštienė	L. Trumpaitė (alumna)	2023	Scientific literature, official statistics data	Impact on the development of students' abilities in conducting scientific research. The results of the study are relevant for companies in the dairy sector of the country.	17th International Scientific Conference " Society . Integration . Education - SIE2023" 26-27 May 2023, in Rezekne , Latvia . Publication in a journal in the

								SCOPUS database
3.	Implementation of the Sustainable Development Goals in Lithuania: the context of poverty reduction	-	Head - Dr. S. Jakštienė	A. Čėponienė	2022 Q4 .	Scientific literature, official statistics data	Impact on the development of students' abilities in conducting scientific research. The results of the study are relevant to the country, responding to the implementation of sustainable development goals in Lithuania.	Public Institution Klaipėda College in the peer-reviewed scientific journal "Science–Business–Society: Present and Future Insights (6)" (https://kvkvfpublishing.wordpress.com/)The journal is included in the Index Copernicus World of Journal database (https://journals.indexcopernicus.com/search/details?id=63747).

4.	Analysis of changes in key macroeconomic indicators of the European Union countries during the period of economy cycles	-	Head - Dr. S. Jakštienė	S. Lapackienė, L. Laucys, A. Saladžius BA-21	2022 Q4 .	Scientific literature, official statistics data	Impact on the development of students' abilities in conducting scientific research. The results of the study are relevant for the country, responding to the assessment of key macroeconomic indicators in different periods of economic cycles, and shaping economic policy in the country.	The proceedings of the 24th International Students' and Teachers' Scientific and Practical Conference INDIVIDUAL. SOCIETY. STATE. Rezekne Academy of Technologies, Rezekne, Latvia http://journals.rta.lv/
5.	Expression of leadership competencies of female managers in the context of the Covid-19 pandemic		Dr. S. Jakštienė Co-authors Dr. B. Stanikūnienė, I. Šteinienė (KTU)	-	2022 Q4 .	Scientific literature	Impact on the country's/region's business sector operating under the uncertainty of the Covid-19 pandemic.	2nd International Conference "Societal interactions: rethinking modern issues", November 22, 2022. Publication in the EBSCO database. SMK

Field of study, code: Social sciences S 000

Field of study, code: Management S 003

Field of study, code: Business and Public Management: Business L01

Thematic area: Business environment, problems of business creation and development

1.	Improving operational processes to ensure occupational safety in	-	Head - Dr. R. Meištė Researchers: Dr. S. Jakštienė; A.	-	2022-2023 mm	Scientific literature	The impact of ensuring occupational safety: creating a	17th International Scientific Conference "
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	production		Lankauskienė				harmonious working environment, improving the quality of work by creating a clean, healthy, safe environment, modernizing infrastructure, providing quality services, and taking care of the health of employees.	Society . Integration . Education - SIE2023" 26-27 May 2023, in Rezekne , Latvia . Publication in a journal in the SCOPUS database
2.	Research on the possibilities of developing socially responsible business		Dr. R. Meištė Dr. S. Jakštienė		2024	Scientific literature	Impact on socially responsible business in the country/region, which seeks to develop ideas of sustainability and responsible activities, show exemplary examples of sustainable business, and form strategies for responsible, sustainable activities.	In a peer-reviewed international journal cited in databases
Field of study, code: Social sciences S 000 Field of study, code: Management S 003 Field of study, code: Business and Public Management: Accounting L04 Thematic area: Business environment, problems of business creation and development								
1.	Comparative analysis of income taxation		N. Pakalniene		2023	Scientific literature, official statistics data	The study will reveal inequalities in taxation of different types of income. The results	Publication in the Utena College scientific journal "Insights"

							will have an impact on improving the tax system	
2.	Impact of changes in the Accounting Law on corporate administration	-	G. Kosteckiene	-	2024	Scientific literature, qualitative research	The study will reveal the distribution of responsibilities between accountants and managers in different companies according to accounting and tax policies.	Publication in the Utena College scientific journal "Insights"
Field of study, code: Social sciences S 000 Field of study, code: Law S 001 Field of study, code: Legal sciences. Law K01 Thematic area: Legislation and practical application of law								
1.	Publication about transgenderism and sports		Dr. D. Petrėnaitė	-	2023	Scientific literature, legal sources	Impact on public education and sports policy	"Insights" or 17th International Scientific Conference " Society . Integration . Education - SIE2023" 26-27 May 2023, in Rezekne , Latvia . Publication in the conference proceedings in the SCOPUS database
2.	Harassment in Academic Environments: A Paradigm of Multidimensional Legal Assessment (The		Prof. Dr. R. Jurka E. Jurkiene		2023	Scientific literature, legal sources	Impact on the formation of rules for the student-teacher relationship	17th International Scientific Conference " Society . Integration . Education -

	harassment in academic environment : paradigm of legal evaluation's diversity).							SIE2023" 26-27 May 2023, in Rezekne , Latvia . Publication in the conference proceedings in the SCOPUS database
3.	Transgender rights issues during military service		Dr. D. Petrėnaitė		2024	Scientific literature, legal sources	Impact - ensuring the rights of sexual minorities	In jurisprudence MRU
4.	Procedure for appealing temporary detention		E. Norkunas		2023	Scientific literature, legal sources	Impact - the analysis of legal documents and practical situations will contribute to the clarification of ensuring the protection of human rights when applying temporary detention	Publication in the Utena College scientific journal "Insights"

Field of study, code: Medical and health sciences M 000

Field of study, code: Dentistry M 002

Field of study, code. Health Sciences. Oral Care G03

Thematic area: Oral care and dental restoration issues

1.	Assessment of the oral health status of conscripts (military conscripts) (quantitative perspective and qualitative perspective)	Military Medical Service	A. Šulskienė Researchers involved Lecturer V. Rudėnienė Lecturer M. Draugelytė , V. Čepukienė I. Bikutė	BH and OP students during practical sessions	2023-2024	Dental equipment, examination and PBH instruments and materials are used to qualitatively	The oral health status of Lithuanian conscripts will be assessed and services provided. Oral health has been improved, practical recommendations	Publication in the journal <i>Social Health or Health Sciences</i> , based on research data, presentations at conferences and in the press
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						assess the state of oral health, Disposable items for examination. The required amount is about 300 euros.	have been prepared, and oral care kits have been created to maintain oral hygiene of conscripts in field conditions.	
2.	Prosthetics of partial defects in patients' dental rows with removable acrylic and thermoplastic prostheses		Z. Kaulinienė Researchers involved Lecturer V. Mameniškis Lecturer : J. Mickus Lecturer : A. Stoškienė	DT students during practical sessions	2023-2024	Dental equipment, materials and tools (The required amount is about 700 euros.)	Practical recommendations for dental technicians.	Publication in the journal <i>Social Health</i> or <i>Nursing, Science and Practice</i> . Conference presentations
3.	The impact of eating disorders on the oral health of young people		A. Šulskienė	Goda Lenčiauskaitė	2023-2024	Scientific literature, clinical case studies	Preparation of practical recommendations	Publication in the journal " <i>Social Health</i> "
4.	dental laminate and pressed glass ceramic manufacturing technologies		Z. Kaulinienė	David Lidius	2023-2024	Scientific literature, clinical case study	Preparation of practical recommendations	Publication in the journal " <i>Social Health</i> "
5.	Oral hygiene services		A. Šulskienė Irmante Bikutė	BH and OP students	by the end of 2022	Dental equipment, materials	Oral hygiene services provided	-

Field of study, code: Medical and health sciences M 000

Field of study, code: Nursing M 005

Field of study, code. Health Sciences. Nursing and Midwifery G08

Thematic area: Problems in nursing practice

1.	Daily stress in elderly patients and its consequences for mental health		Dr. Z. Valiulienė Researchers involved Lecturer L. Stalnionienė Lecturer L. Šarkauskienė Z. Petravičienė V. Bartašiūnienė		2022 11 2024 06	Analysis of systematic reviews and collection and systematization of clinical practice data	Preparation of practical recommendations for the public	Publication in the journal <i>Health Sciences or Nursing. Science and Practice</i> . Presentation at the conference "Evidence-Based Practice: From Health to Social Sciences" and other conferences in foreign countries and Lithuania
2.	Evidence-based nursing (practice) and digitalization in nursing education and practice	Customers will be sought among healthcare institutions. Projects DTNET, DR FLEMP	D. Šakalytė Researchers involved assistant I. Indriūnienė Lecturer : R. Jodienė Lecturer R. Jurgelionienė Assoc. Prof. Dr. D. Kriukelytė Lecturer D. Stunžėnienė Lecturer : P. Šakalis	Students are involved in the development of manipulation protocols.	2022 11 2024 06	3D glasses, computer equipment	Preparation of practical recommendations for heads of healthcare institutions and nursing educators	Publication in the journal <i>Social Health or Nursing. Science and Practice</i> . Presentation at the conference "Evidence-based practice: from health to social sciences" and other conferences in foreign countries and in Lithuania
3.	Self-care assessment of women with endometriosis	E. Šimkūnaitė Charity and Support	D. Šakalytė	Ieva Sakinytė	2021 10 2023 01	Scientific literature, SPSS program	Preparation of practical recommendations for	Publication in the journal <i>Social Health or Nursing.</i>

		Foundation					the public (women with endometriosis)	Science and Practice. Presentation at the conference “Evidence-based practice: from health to social sciences”
4.	adequate analgesia to patients during acute ischemic syndromes	Planned with Kaunas City Ambulance Station	D.Šakalytė	David Vasilionka	2022 10 2023 06	Scientific literature, statistical analysis of medical records	Preparation of practical recommendations for emergency medical care nurses. Improvement of the non-formal education program in emergency medical care	Publication in the journal Social Health or Nursing. Science and Practice. Presentation at the conference “Evidence-based practice: from health to social sciences”

Field of study, code: Medical and health sciences M 000

Field of study, code: Public health M 004

Field of study, code: Health Sciences. Rehabilitation G06

Thematic area: Problems of human physical activity

1.	Advanced study of postural stabilizing back muscles	Contracts will be concluded with regional healthcare institutions	Prof. Dr. G. Šustickas Researchers involved assistant A. Tilindis assistant L. Urbanavičienė Lecturer : E. Rekus	CT students during practical sessions	from November 2022. Ongoing research to build up the CGP database	Back-check dynamometer is designed to test the maximum isometric muscle strength of various muscle groups, especially the back muscles,	Services provided to the public. A detailed computer conclusion is provided. The test data is saved in the software memory - this is important when assessing the progress of the prescribed therapy, i.e. comparing new and previously obtained	It is planned to prepare publications in peer-reviewed journals based on the research results.
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						and to assess intermuscular balance.	test data.	
2.	Colleges Clarifying the problems causing back pain in the community and creating an exercise program, evaluating its effectiveness		Prof. Dr. G. Šustickas Researchers involved Lecturer V. Kerulienė assistant A.Tilindis Assistant L. Urbanavičienė assistant I. Kondrotienė Lecturer : E. Rekus	CT students during practical classes	2022 11 2024 06	Back-check dynamometer , analysis of systematic reviews, development of a CRP database	Practical recommendations provided	Publication Nursing. Science and Practice or “Health Sciences”, presentation at the conference “Evidence-Based Practice: From Health to Social Well-Being”

Field of study, code: Medical and health sciences M 000

Field of study, code: Public health M 004

Field of study, code. Health Sciences. Cosmetology G10

Thematic area: Application of cosmetology procedures and products

1.	Cosmetic product efficacy research	Will be searched	Lecturer J. Prakupavičienė Lecturer E.Židoniė Assistant E. Pernavienė Assistant I.Mickevičiūtė	KS students during internships	2022 11 2024 06	Materials, tools (The required amount is about 700 - 800 euros.)	Practical recommendations for beauty salons and the public are provided.	Publication prepared In “Insights” or “Social Health”, presentation .
2.	Applying SPA procedures, performing cosmetology procedures	Will be searched	Lecturer R. Malakauskienė	KS students during internships	2022 11 2024 06	Materials, tools (The required amount is about 700 - 800 euros.)	Practical recommendations for beauty salons provided	Publication prepared “Insights”, “Nursing. Science and Practice”, conference presentation.

3.	Nail care problems for children and babies and their solutions		Assistant L. Macijauskienė	KS students during internships	2022 11 2023 12	Materials, tools	Practical recommendations for the public have been provided	Publication prepared “Insights”, “Nursing. Science and Practice”, conference presentation.
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Field of science, code. **Social Sciences S 000**

Field of study, code: **Sociology S 005**

Field of study, code : **Social Sciences: Social Work J04**

Thematic area: **1. Solving social problems in the context of the sustainable development agenda**

1.	Commissioned research. Multidisciplinary nature of services provided by the Utena District Social Services Center . Opinion survey of stakeholders and social partners	Utena District Social Services Center	Research leader Dr. V. Bartuševičienė Researchers: R. Ubeikienė E. Budrytė	SD- 21 students	2023	Scientific literature, PSPP	The results of the study will provide insights and recommendations on how to improve the quality of services at the social service center.	Based on the research results, in agreement with the client, prepare a publication in a peer-reviewed scientific journal
2.	Custom research. Research on the quality of services provided by the Utena District Social Services Center	Utena District Social Services Center	Research leader Dr. V. Bartuševičienė Researchers: R. Ubeikienė E. Budrytė Z. Kuprėnaitė J.Zabulytė Kupriūnienė	SD- 22 students	2024	Scientific literature, PSPP	The results of the study will provide insights and recommendations on how to improve the awareness of the services provided at the social service center.	Based on the research results, in agreement with the client, prepare a publication in a peer-reviewed scientific journal
3.	Custom research Development of social integration of disabled people in Utena district:	Utena District Disabled People's Association	Researcher Dr. V. Bartuševičienė	SD-22, SD-23 gr . students	2024	Funding is possible from the Utena District	The results of the study will provide insights into the possibilities of people with disabilities	Based on the research results, in agreement with the client, prepare a

	study of the possibilities of people with disabilities to establish themselves in the labor market in the city of Utena					Municipality Administration's social services development and quality improvement project competition or the Active Citizens Fund (EEA financial mechanisms)	to establish themselves in the labor market.	publication in a peer-reviewed scientific journal
4.	Custom research Analysis of the individual needs of people with intellectual disabilities living in the city of Utena and the wards of Utena district	Community of People with Intellectual Disabilities "Utenos Viltis"	Researcher Z. Ribokienė	SD- 23 students	2024	Funding is possible from the Utena District Municipality Administration's social services development and quality improvement project competition or the Active Citizens Fund (EEA financial mechanisms)	The results of the study will provide insights into the individual needs of people with intellectual disabilities in the city and district of Utena.	Based on the research results, in agreement with the client, prepare a publication in a peer-reviewed scientific journal
5.	Research on the availability of social services for Ukrainians fleeing the war in Utena	-	Researcher Z. Ribokienė Researchers: Z. Kuprėnaitė	S. Beine , SD19I	2023	Scientific literature	The results of the study will allow for the formulation of practical	Presentation at the conference "Evidence-based practice: from health

	County						recommendations for improving the quality of services.	to social well-being”.
6.	Experiences of adolescents living in community children's homes after losing parental care.	Obeliai Community Children's Home	Research leader Dr. V. Bartuševičienė	J. Ivanova , SD-19I	2023	Scientific literature	The results of the study will provide insights and recommendations that will allow for measures to be taken to improve the well-being of adolescents living in foster care who have lost parental care.	Presentation at the student scientific conference “A country where life is good” 2023-04; Publication in the Utena College scientific journal “Insights”, 2023.
7.	Independent living experiences of young people who have left child care institutions.	Švenčionys Children's Social Care Home	Research leader Dr. V. Bartuševičienė	N. Lukovskienė SD-19I	2023	Scientific literature	The results of the study will provide insights and recommendations on how to more creatively develop children's independent living skills.	Presentation at the student scientific conference “A country where life is good” 2023-04; Publication in the Utena College scientific journal “Insights”, 2023.
8.	social services for people with disabilities living independently in Visaginas Municipality	Visaginas Social Services Center	Research guide E.Vaitiekus	Z. Krasauskiene SD19I	2023	Scientific literature	The results of the study will provide insights and recommendations on how to improve the accessibility of social services for people with disabilities.	Based on the research results, in agreement with the client, prepare a publication in a peer-reviewed scientific journal
9.	Analysis of problems in organizing employment for people with visual	NGO Lithuanian Union of the	Researcher J. Lubienė	V. Žukauskienė SD-19I	2023	Scientific literature	The results of the study will provide insights and recommendations	Prepare a publication in a peer-reviewed

	impairments	Blind and Visually Impaired, Molėtai District Branch					that will help solve the problems of organizing employment for people with visual impairments.	scientific journal based on the research results
10.	A study of public attitudes towards domestic violence (or Evaluation of assistance to victims of domestic violence: analysis of client attitudes)	Specialized complex assistance center (negotiated)?	Researcher Z. Ribokienė	M. Penkina , SD19I(LV)	2023	Scientific literature	The results of the study will provide insights and recommendations that will help solve the problems of providing assistance to victims of domestic violence.	Prepare a publication in a peer-reviewed scientific journal based on the research results

Field of science, code. Social Sciences S 000

Field of study, code: Sociology S 005

Field of study, code : Social Sciences: Social Work J04

Thematic direction. Directions, problems, and perspectives of professional self-realization of a social worker

1.	Stressors in social work: causes, consequences, coping methods.	-	Research leader Ž. Kuprėnaitė Researchers: J. Lubienė Z. Ribokienė J. Zabulytė - Kupriūnienė	A. Tikhomirov , SD19I; R. Veteikienė , SD19I	2023-2024	Scientific literature, PSPP	The results of the study will allow for the formulation of practical recommendations for the prevention of occupational burnout.	Article in the scientific journal of Utena College "Insights"
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Field of science, code: Natural sciences N 000

Field of study, code: Ecology and environmental science N 012

Field of study, code. Engineering Sciences. Environmental Engineering E03

Thematic area: Environmental protection issues

1.	of pet grooming waste and its management		Research leader Dr. I. Pliopaitė	R. Balbierytė AAI-19I gr .	2022-2023	Scientific literature,	The impact on the development of	Presentation at the 26th Lithuanian
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	options		Bataitene	student		statistical analysis software	students' abilities in conducting scientific research, as well as the results of the research, will allow for the formulation of recommendations on alternative options for managing this waste.	Young Scientists Conference "Science - the Future of Lithuania", Environmental Engineering. Publication in the conference proceedings.
2.	Monitoring of physico-chemical quality element indicators of Utena rivers in 2022. The fourth survey of 2022 was carried out in November. The 2022 monitoring report and publication "Analysis of the impact of the city of Utena on the ecological status of rivers in 2016-2022" were prepared		Dr. I. Jakštonienė , Dr. I. Pliopaitė Bataitene , N. Rukštelienė		2023	Spectrophotometer, standardized research methodologies, scientific literature	The results of the study will allow assessing the ecological condition of the rivers of the city of Utena	The article is planned to be published in a Lithuanian scientific journal or in conference proceedings.
3.	Selection of a small-scale bioreactor for the management of biodegradable household waste	-	Dr. I. Jakštonienė	I. Mažeikienė AAI-19I gr . student	2023	Scientific literature	Impact on the development of students' abilities in conducting scientific research. Recommendations have been prepared for selecting a small-sized bioreactor for handling biodegradable	Presentation at the conference "A good country to live in"

							household waste	
4.	Research within the framework of the Utena District Municipality environmental protection activity project	Utena District Municipality Environmental Protection Support Special Program Funds	Dr. I. Jakštonienė N. Rukštelienė	-	2023 2024	Scientific literature, standardized research methodologies	The research results will contribute to solving environmental problems in the Utena district.	Research report prepared and published online
Field of science, code: Technological sciences T 000 Field of study, code: Electrical and Electronic Engineering T 001 Field of study, code: Engineering Sciences. Electronic Engineering E09 Thematic area: Innovative solutions in electricity and electronics								
1	Overview of voluntary geographic information technical tools.	Teltonika UAB IoT Group	Dr. L. Kairiūkštis	ISI-22I ISI-22 students	Spring semester 2023 .	Teltonics Telematics provided equipment GSM/GNSS tracker , EYE Sensor	Impact on the development of students' abilities in conducting scientific research. The results of the study are relevant for the development of the Internet of Things.	Publication in the Utena College scientific journal "Insights. Works of Young Researchers"
2	Wind turbine efficiency study		Dr. L. Kairiūkštis	Diamond Grauzinis AVS-19I gr . student	2023	Utena College FESTO Renewable Energy Research Stand	The research will evaluate the efficiency of wind turbines using analytical and experimental methods.	Presentation at the student conference "A country where life is good"

3	Research into the efficiency of alternative energy sources	-	Dr. L. Kairiūkštis	Students of AVS, ISI study programs	2024	Utena College FESTO Renewable Energy Research Stand	Impact: ...	Publication in the Utena College scientific journal "Insights. Works of Young Researchers"
Field of science, code: Technological sciences T 000 Field of study, code: Chemical Engineering T 005 Field of study, code. Technological sciences. Food technologies F06 Thematic area: Quality issues in food technology								
1.	Variation in milk quality characteristics depending on seasonality.	-	G. Stasiulionienė L. Baltuskiene	-	2024	Literature analysis, devices (Milk analyzer)	The study will analyze milk composition indicators and their changes over the course of the year. This is relevant for companies producing fermented milk products, for which the content of protein, fat and dry matter in milk is particularly important, as it has a direct connection with the yield, quality and nutritional value of dairy products.	Publication in the Utena College scientific journal "Insights"
2.	Enrichment of flour confectionery products with alternative grains.	-	Manager G. Stasiulionienė	S. Dumšaitė MPT-19I gr . student	2023	Literature analysis, instruments (colorimeter , moisture	Impact on the development of students' abilities in conducting scientific	Publication in the Utena College scientific journal "Insights. Works of

						analyzer)	research. The study will aim to assess the impact of different recipes (using alternative flour types) on dough and biscuit parameters: dough texture, biscuit texture, color coordinates, moisture, sensory properties, overall acceptability and energy value. The results of the study will have an impact on consumers of flour products.	Young Researchers”
3.	Determination of sensory properties of fiber-enriched dairy products		Manager G. Stasiulionienė	MPT- 20th grade student	2024	Literature analysis, sensory evaluation	The study will have implications for consumers promoting healthier products. The study will aim to assess the impact of dietary fiber on the sensory properties of dairy products and the acceptability of such products.	Publication in the Utena College scientific journal “Insights. Works of Young Researchers”

Field of science, code: **Technological sciences T 000**

Field of study, code: **Materials Engineering T 008**

Field of study, code. **Technological sciences. Polymer and textile technologies F02**

Thematic area: **Issues of development of clothing production technologies**

1.	Synthesis of textiles and paper cutouts in a collection made from denim scraps	-	J. Lauciene	R. Dubriene AT-19I gr . student	2023	Literature review, laser technology	The literature analysis and the collection created will contribute to reducing the environmental impact of public consumption, promoting sustainable fashion and the circular economy. The research will analyze the methods of transferring cutouts onto textiles, conduct tests and analyze the durability of the transferred methods.	Publication in the Utena College scientific journal "Insights. Works of Young Researchers"
2.	The influence of material stiffness on product design and final appearance	-	I. Breitmoserė	A.Jančauskaitė - Karvelienė, AT-19I gr . student	2023	Literature analysis, Gerber Technology software package AccuMark	Impact on consumer needs of clothing products, during the study, recommendations will be developed for the construction of clothing products depending on the stiffness of the material, the fall of the selected different materials will be determined, a knot (complex construction) will be sewn from each material and visually	Publication in the Utena College scientific journal "Insights. Works of Young Researchers"

							assessed whether it meets the desired image and maintains the intended shape.	
3.	Application of clothing design and technological solutions in clothing production	-	I. Breitmoserė J. Lauciene	AT-20I gr . students	2024	Literature analysis, Gerber Technology software package AccuMark , sewing laboratory equipment	Impact on the clothing manufacturing sector	Publication in the Utena College scientific journal “Insights. Works of Young Researchers”

INTERDISCIPLINARY RESEARCH

Field of study, code: **Social sciences S 000**

Field of study, code: **Education S 007**

Field of study, code: **Medical and health sciences M 000**

Field of study, code: **Nursing M 005**

Field of study, code **Health Sciences. Nursing and Midwifery G08**

Thematic area: **Issues of specialist training**

1.	Validation and application of the questionnaires “Evidence-Based Practice Questionnaire for Students” and “Evidence-Based Practice Questionnaire for Teachers” in Lithuania	-	Danguolė Šakalytė Researchers involved prof. Dr. Valdonė Indrašienė (MRU) Paul the Jackal Ruth Jurgelionienė	-	2022 06 2024 05	Scientific literature	It is planned to use the questionnaire in colleges to assess the progress of teachers and students in applying the CLP in their studies and practice.	Article Science Direct in a refereed journal, presentation at the conference “Evidence-Based Practice: From Health to Social Well-Being”
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Field of study, code: **Social sciences S 000**

Fields of study, code: **Education S 007, Sociology S 005**

Field of study, code: **Medical and health sciences M 000**

Field of study, code: **Public health M 004**

Field of study, code **Health Sciences. Rehabilitation G06**

Field of study, code **Social Sciences: Social Work J04**

Thematic areas. **Issues of specialist training**

2.	“Applying evidence-based practice in physiotherapy and social work studies” Social Sciences, Education and Medical and Health Sciences Field of study: Rehabilitation; Social work.		Danguolė Šakalytė Research group Vaida Kerulienė Edmantas Rekus Ramunė Ubeikiene Edmund Vaitiekus	-	2022 06 2024 05	Scientific literature	Recommendations for teachers have been prepared	Article in the journals “Social Welfare Research” (Ulrich's PROQUEST, CEEOL databases); “Rehabilitation Sciences: Nursing, Physiotherapy, Occupational Therapy ” (DOAJ , Google Scholar , Index Copernicus , Scopus)
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Field of study, code: **Social sciences S 000**

Fields of study, code: **Education S 007, Management S 002, Economics S 004**

Fields of study, codes **Business and Public Management, Business L01, Management L02, Accounting L04**

Thematic areas. **Issues of specialist training**

3.	Data analysis methods and their application in social research		Dr. V. Bartkutė-Norkūnienė		2023 05	Scientific literature PSPP	An overview of data analysis methods for researchers has been prepared	Publication in the Utena College scientific journal "Insights"
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Field of study, code: Social sciences S 000 Fields of study, code: Education S 007, Management S 003 Fields of study, codes Business and Public Management, Management L02 Thematic areas. Issues of specialist training								
4..	Analysis of changes in educational attainment in Lithuania	-	Head - Dr. S. Jakštienė	S. Zelionkaitė-Auskalnienė BA-21 gr .	2022-11	Scientific literature	Impact on the development of students' abilities in conducting scientific research. The results of the study are relevant for the country, responding to changes in education in Lithuania, shaping inclusive labor market measures, and education policy.	Kolping College Proceedings of the 11th International Student Conference “Theory and Practice: Student Insights”
Field of study, code: Social sciences S 000 Fields of study, code: Communication and Information S008, Management S003 Fields of study, codes Business and Public Management, Management L02 Thematic areas: Business environment, problems of business creation and development								
5.	Factors affecting mentor-mentee communication - cross-national perspective		Dr. V. Bartkutė-Norkūnienė, R. Jodienė Co-authors U. Ryciuk , E. Rollnik-Sadowska , E. Glińska , S. Murinska , A. Zvaigzne , G. Marzano , V.	-	2023	Scientific literature, PSPP	The impact on increasing the efficiency of communication between a business mentor and a person intending to create a business, presenting the factors influencing communication	Preliminary A journal <i>Psychology Research and Behavior Management</i>

			Jecheva				efficiency identified based on the results of an international study.	
Field of study, code: Social sciences S 000 Fields of study, code: Political Science S 002, Economics S 004, Management S003 Fields of study, codes Business and Public Management, Business L01 Thematic areas: Business environment, problems of business creation and development								
6.	Efficiency of labor market public expenditure by public administration tradition in EU countries		Dr. V. Bartkutė-Norkūnienė. Co-author dr. E. Rollnik-Sadowska (Bialystok University of Technology , Poland)	-	2023	Scientific literature, MS Excel Solver DAE method	The analysis of the indicators will allow us to assess the efficiency of EU labor markets before and during the pandemic and to determine the impact of the volume of public services on the size of selected labor market indicators.	In an international peer-reviewed, high-ranking journal
Field of study, code: Social sciences S 000 Fields of study, code: Management S003, Economics S 004 Fields of study, codes Business and Public Management, Business L01 Thematic areas: Business environment, problems of business creation and development								
7.	Factors of dynamics in the housing price market in European countries	-	Prof. Dr. V. Snieška J. Aksomitene	-	2023	Scientific literature	Analysis of dynamics factors will allow assessing the investment opportunities of individuals and legal entities and the	Article in a scientific journal with a citation index (Web of Science weather Scopus with Impact Factor (JCR SSCI or SNIP)

							reasons for changes in dynamics	
Field of science, code: Technological sciences T 000 Field of study, code: Computer Science Engineering T 007 Fields of study, codes Computer Science. Computer Science Engineering B04, Engineering Science. Electronic Engineering E09, Engineering Science. Environmental Engineering E03 Thematic areas: Environmental protection issues, Practical IT solutions and applications								
8.	The impact of technology usage habits on energy consumption and environmental pollution	-	Dr. J. Urbonienė G. Ivanickienė A. Pranaitis Dr. L. Kairiūkštis	-	2023	Scientific literature	The impact of engineering solutions on reducing environmental pollution and costs for technology users	Publication in the Utena College scientific journal "Insights"
Field of science, code: Technological sciences T 000 Field of study, code: Computer Science Engineering T 007 Field of study, code: Social sciences S 000 Field of study, code: Education S007 Field of study, code: Computer science. Computer engineering B04								
9.	Application of SCRUM and KANBAN methods in preparing group project works of students of the Computer Science Engineering study field	-	Dr. J. Urbonienė D. Bukelis G. Ivanickienė	-	2023	Scientific literature	Impact on the quality of studies and the preparation of necessary and suitable specialists for the labor market	Publication in the Utena College scientific journal "Insights"
Field of study, code: Social sciences S 000 Fields of study, code: Education S 007, Psychology S 006 Fields of study, codes Computer Science. Computer Engineering B04, Engineering Sciences. Environmental Engineering E03, Electronic Engineering E09, Technological Sciences. Food Technology F06, Polymer and Textile Technology F02, Business and Public Management. Business L01, Management L02, Accounting L04								

Thematic areas: Development of general competencies of society

10.	The phenomenon of math anxiety. What is known about it - a systematic analysis of the literature		Dr. V. Bartkutė-Norkūnienė Research group A. Lankauskienė Z. Ribokienė E. Gaideliene Dr. R. Šiugždaitė (Department of Experimental Psychology, Faculty of Psychology and Education, Ghent University)		2023	Scientific literature	Impact on educational policy, curricula, and raising awareness of the phenomenon of "mathematical anxiety" among teachers, students, and educational program developers.	In an international peer-reviewed journal. Preliminary The proceedings of " Society . Integration . Education - SIE2023"
11.	of math anxiety on math studies - research		Dr. V. Bartkutė-Norkūnienė Research group A. Lankauskienė Z. Ribokienė E. Gaideliene Dr. R. Šiugždaitė (Department of Experimental Psychology, Faculty of Psychology and Education, Ghent University)		2023-2024	PSPP	Impact on educational policy, curricula, and raising awareness of the phenomenon of "mathematical anxiety" among teachers, students, and educational program developers.	In an international peer-reviewed journal. Preliminary The proceedings of " Society . Integration . Education - SIE2023"

IMPROVEMENT OF TEACHERS' SCIENTIFIC COMPETENCES

Seria l No.	Measure	Responsible teachers	Start and end dates for the activity/study	Equipment used and other material resources	Impact on the College Community
1.	Seminars for teachers on quantitative and qualitative data analysis methods.	Dr. V. Bartkutė-Norkūnienė	2023 and 2024 Q4 .	Room 901 , Moodle	Improved scientific competence of teachers in the application of quantitative and qualitative data analysis methods
2.	Seminar for teachers on visualizing qualitative and quantitative data collected during research.	Dr. V. Bartkutė-Norkūnienė	2023 and 2024 Q4 .	901 aud . Moodle	Improved scientific competence of teachers on the topic of quantitative and qualitative data visualization
3.	Information literacy training together with the Lithuanian Medical Library	D. Šakalytė	2023 and 2024 Q1 .	Zoom	Improved academic research skills of teachers
4.	Seminar for teachers “Applied research - a quantitative perspective”	D. Šakalytė	2023 Q1- Q2 .	2-16 auditorium	Improved scientific competence of teachers topic of quantitative applied research
5.	Seminar for teachers “Applied research - a qualitative perspective”	D. Šakalytė	2022 Q4 .	2-16 auditorium	Improved scientific competence of teachers on the topic of qualitative applied research

IMPROVEMENT OF STUDENTS' SCIENTIFIC COMPETENCE

Seria l No.	Measure	Responsible teachers	Students included	Start and end dates for the activity/st	Equipment used and other material resources	Impact on the College Community
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1.	Seminar "How to prepare an academic text ethically and correctly?"	- V. Steponėnienė		2022 - 2024 Q4 .	Zoom	Improved students' scientific competence on the topic of academic text preparation
2.	Seminar "Searching for Information Sources"	- K. Gogelienė		2022 - 2024 Q4 .	Zoom	Improved students' scientific information search competence
3.	Information literacy training together with the Lithuanian Medical Library	- D. Šakalytė		2023 and 2024 Q1 .	Zoom	Improved students' scientific information search competence
4.	Seminar for students "Applied research - a quantitative perspective"	- D. Šakalytė		2023 Q1-Q2 .	2-16 auditorium	Improved student scientific competence topic of quantitative applied research
5.	Seminar for students "Applied research - a qualitative perspective"	- D. Šakalytė		2022 Q4 .	2-16 auditorium	Improved student scientific competence on the topic of qualitative applied research