



NEVŞEHİR HACI BEKTAŞ VELİ UNIVERSITY

2024 SUSTAINABILITY REPORT



THE GLOBAL GOALS
For Sustainable Development





THE GLOBAL GOALS

For Sustainable Development

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Message from the Rector

Sustainability has become a guiding framework for contemporary higher education institutions, shaping not only academic production but also institutional governance, social contribution, and environmental responsibility policies. At Nevşehir Hacı Bektaş Veli University (NEVÜ), we regard the systematic application of this approach across education, research, and community service as a core institutional responsibility.

This report presents a comprehensive overview of the multifaceted activities conducted by our university throughout 2024 in alignment with the United Nations Sustainable Development Goals (SDGs). NEVÜ integrates the fundamental components of sustainable development into the higher education system through projects in areas such as quality education, research, innovation, gender equality, clean energy, climate action, and strong institutions.

The data and examples included in this report document our university's interdisciplinary research capacity, social awareness, and contribution to regional development. Projects supported by TÜBİTAK and the Specialization Coordination Office, environmental management initiatives, green campus policies, and social responsibility activities serve as tangible indicators of NEVÜ's sustainability vision.

Nevşehir Hacı Bektaş Veli University is committed to establishing a strong interaction between knowledge production and societal benefit, supporting scientific advancement and sustainable development simultaneously. In this context, our university continues to act on the principles of quality in education, innovation in research, and continuity in social contribution, resolutely working to build a sustainable future.

Prof. Dr. Semih AKTEKİN
Rector of Nevşehir Hacı Bektaş Veli University



Research Activities Conducted in 2024

TÜBİTAK 2209-A Project

The project titled “A Qualitative Study on the Career Planning Needs of Healthcare Management Students” was carried out under the supervision of Lecturer Ali Rıza Özdemir, Head of the Department of Management and Organisation. As part of the project, a “MedData Hospital Information Systems Applied Training” was conducted. This study aimed to identify the needs and expectations that Healthcare Management students encounter in their career planning processes. By enhancing students’ professional awareness, the project contributed to strengthening their employability and supporting their readiness for the job market.



“Knowing Myself, Seeking My Profession” Project

The project titled “Knowing Myself, Seeking My Profession”, conducted in 2024 under the supervision of Assoc. Prof. Dr. Emine Zehra Turan from the Faculty of Education, was carried out over two academic terms (September–December 2024 and February–June 2024) in collaboration with the Guidance and Research Centre, the Turkish Employment Agency, and the Chamber of Industry. This project, which embodies both academic research and social contribution, aimed to promote vocational education, enhance youth employability, and revitalize traditional crafts and professions that are at risk of disappearing (such as car body repair and metal turning). The project is also linked to UN Sustainable Development Goal 4 – Quality Education.

Featured Publications

Akçayır, Ö. (2024). Karbon emisyonunun negatif dışsallığı ve gelir eşitsizliğine etkisi: Multidisipliner bakış açısı. *Ekonomi Maliye İşletme Dergisi*, 7(1), 18–36.

Akçayır, Ö. (2024). Asymmetrical effects of macroeconomic indicators on GHGs emissions: Analysis of Türkiye. In S. Uzunoglu & A. Akinci (Eds.), *Theory and applied macroeconomics* (pp. 295–308). Peter Lang GmbH.

Educational Activities Conducted in 2024

In 2024, the courses Career Management, Human Resources Management, and Career Planning offered at Nevşehir Hacı Bektaş Veli University, aimed to equip students with essential knowledge and skills in the fields of human resources management, employment processes, and career planning. These courses covered topics such as human resources planning, job analysis, recruitment and selection, interview techniques, CV preparation, performance and job evaluation, compensation management, occupational health and safety, overcoming career barriers, professional ethics, labour market analysis, and sustainable career development. The course content enables students to develop the awareness and competences necessary to contribute to the creation of fair and safe working environments. Within this framework, the educational activities are particularly aligned with UN Sustainable Development Goal 4 – Quality Education and Goal 8 – Decent Work and Economic Growth, addressing themes such as income security, fair compensation, occupational health and safety, and equal opportunities in the workplace.

Social Activities Conducted in 2024

In 2024, various community engagement projects were carried out by students of the Medical Promotion and Marketing, Healthcare Management, and Medical Documentation and Secretarial programmes under the “Volunteering Studies” course, supervised by Lecturer Nurdan Demir at the Nevşehir Hacı Bektaş Veli University Vocational School of Health Services. Through these projects, social solidarity was strengthened, and meaningful steps were taken toward reducing social inequalities.

Students from the Medical Promotion and Marketing Programme supported home repairs for families in need and provided stationery support to Alacaşar Village Primary School in Nevşehir.

Students from the Healthcare Management Programme helped improve educational opportunities in disadvantaged regions by providing stationery support to a kindergarten in Gaziantep. Meanwhile, the Medical Documentation and Secretarial Programme students carried out activities such as clothing donations to Alacaşar Village Primary School, stationery and book donations to Avanos Çalış Primary School, and meal distribution support within the scope of the Nevşehir KYK “My Neighbour” Project.

These initiatives not only enhanced solidarity with local communities but also fostered students’ sense of social responsibility. The projects supported UN Sustainable Development Goal 10 – Reduced Inequalities by promoting equal opportunities and contributing to improving the living conditions of disadvantaged groups. By encouraging students to apply their professional knowledge and skills for the benefit of society, these activities reinforced both social awareness and a culture of sustainable development within the university community.



Research Activities Conducted in 2024

TÜBİTAK-1002 Project

The TÜBİTAK-1002 project titled “Production of a Functional Flavour Enhancer as an Alternative to Broth from By-Product Skins of the Poultry Meat Processing Industry” was conducted under the leadership of Assoc. Prof. Dr. Cem Okan Özer and Assoc. Prof. Dr. Kemal Şen from the Department of Food Engineering. Within the scope of the project, a functional flavour enhancer product was developed as an alternative to chicken broth by utilizing fat obtained from chicken skins, a by-product of the poultry industry. The study provided a sustainable approach to food production systems by demonstrating how the economic value of chicken skins can be increased and reintegrated into the food consumption chain.

TÜBİTAK 2209-A Project

A project titled “Prevention of Iron–Polyphenol Complex Formation through Food-to-Food Fortification Strategy: Enriched Black Tea with Orange Peel” was conducted under the supervision of Prof. Dr. Hilal Yıldız from the Department of Food Engineering, Faculty of Engineering and Architecture.

Within the scope of the project, a functional black tea product was developed using a food-to-food fortification strategy. The addition of orange peel was found to reduce iron–polyphenol complex formation by 70% and enhance iron absorption. Moreover, by utilizing orange peels, which are considered food waste, an environmentally friendly and sustainable approach was adopted. The study also provided a scientific foundation for the development of value-added tea products enriched with functional ingredients. This project is aligned with UN Sustainable Development Goals 3, 9, 12, and 13.

Educational Activities Conducted in 2024

The NEVÜ Food and Agriculture Club organised a panel titled “Food Safety Crisis: What Is on Our Table? The Effects of Adulteration and Counterfeiting.” Faculty members from the Department of Food Engineering, Faculty of Engineering and Architecture—including Prof. Dr. Nesimi Aktaş, Prof. Dr. Hilal Yıldız, Assoc. Prof. Dr. Cem Okan Özer, Assoc. Prof. Dr. Kamil Emre Gerçekaslan, Assoc. Prof. Dr. Kemal Şen, Lecturer Bülent Zorlugenç, and Lecturer Feyza Kiroğlu Zorlugenç—participated as speakers. The panel addressed the causes, methods, and effects of adulteration and counterfeiting in food products and discussed measures to be taken to prevent them. It was emphasized that food fraud constitutes a significant global problem and poses serious health and economic risks.



Social Activities Conducted in 2024

The Kızılay Club, established within NEVÜ, provides support to students in need and the broader community through activities guided by the principles of social solidarity and volunteerism. Throughout the year, the club raises awareness about social responsibility and contributes to reducing the risk of hunger through the distribution of food, clothing, and hygiene packages. These initiatives encourage voluntary participation among university students, strengthen social solidarity, and support the objectives of sustainable development.





Research Activities Conducted in 2024

Patent Achievement

A patent application conducted in collaboration between Nevşehir Hacı Bektaş Veli University (NEVÜ) and Erciyes University was approved and registered by the Turkish Patent and Trademark Office (TÜRKPATENT). On behalf of NEVÜ, the inventors are Prof. Dr. Şahlan Öztürk from the Department of Environmental Engineering, Faculty of Engineering and Architecture, and Asst. Prof. Dr. Enver Ersoy Andeden from the Department of Molecular Biology and Genetics, Faculty of Science and Letters. Representing Erciyes University, the inventors are Research Assistant Dr. Muazzez Derya Andeden from the Department of Medical Biology, Faculty of Medicine, the late retired faculty member Nurhan Cücer, and Prof. Dr. Belma Aslım from the Faculty of Science at Gazi University. The study titled “Use of Methanol Extract of *Desmodemus Arthrodesmiformis* EM13 as an Active Compound Reservoir in Drug Research and Development” stands out as innovative research with potential for developing new drugs, particularly in the treatment of Parkinson’s disease, and strengthens the scientific research vision of our university.



Patent Achievement

A patent titled “The Effect of Basalt Cutting Waste on the Slip Resistance of Ceramic Tile Surfaces” developed in collaboration between Nevşehir Hacı Bektaş Veli University (NEVÜ), Eskişehir Technical University, and Seranit Granit Seramik Sanayi ve Ticaret Anonim Şirketi, has been officially registered by the Turkish Patent and Trademark Office (TÜRKPATENT). Conducted with contributions from Prof. Dr. Zahide Bayer Öztürk of the Department of Metallurgical and Materials Engineering, Faculty of Engineering and Architecture at NEVÜ, this invention enhances the safety of slippery indoor and outdoor surfaces in the ceramic and construction sectors.



TÜBİTAK-1002 Project

In the TÜBİTAK-1002 project titled “Sustainability in the Industrial Catering Menus: Nutritional and Environmental Impact Assessment,” conducted under the supervision of Assoc. Prof. Dr. Cem Okan Özer from the Department of Food Engineering, the nutritional composition and environmental impacts of industrial catering menus were comprehensively evaluated. The findings highlighted the importance of sustainable menu design for ensuring balanced and healthy nutrition while minimising environmental effects, emphasizing the critical role of plant-based protein alternatives in this process. The project is also aligned with UN Sustainable Development Goals 2 and 9.

Scientific Research Projects (SRJ)

Research conducted within NEVÜ aims to directly contribute to public health and family well-being. In the study titled “Determining Parents’ Attitudes Toward Vaccination,” conducted under the supervision of Assoc. Prof. Dr. Zehra Çalışkan, the attitudes of parents with children aged 0–18 towards vaccination were examined, highlighting the importance of providing accurate and reliable information to positively support these attitudes. Additionally, the project “Determining the Impacts on Siblings of Children with Special Needs and Their Perceived Social Support” explored the emotional and social challenges experienced by siblings of children with special needs and proposed interventions to support the continuity of family-centred care. These projects, particularly aligned with Goal 4, contribute to raising social awareness and strengthening social support mechanisms, reinforcing the university’s commitment to social responsibility and scientific research.

The project titled “Investigation of the Protease-Inhibiting Effect of the Batimastat Molecule on Certain Viper Venoms,” conducted under the supervision of Assoc. Prof. Dr. Naşit İçgi from the Department of Molecular Biology and Genetics, aims to explore the potential use of small-molecule drugs as an alternative to serum-based antivenoms in the treatment of venomous snakebites.

TÜBİTAK 2209-A Achievement

Within the scope of TÜBİTAK 2209-A Student Projects, the Vocational School of Health Services achieved notable success, particularly in alignment with Goal 3: Good Health and Well-Being. These projects aim to strengthen students’ scientific research capacities while providing tangible contributions to the health and quality of life of the community.

Student	Supervisor	Programme	Project Title
Project Leader: Emine Yıldız Project Partner: Ayşegül Yiğitcan Project Partner: Sudezaz Ağkoç Project Partner: Kübra Karataş	Dr. Ayşen Tükel	Child Development	My Playmate is My Grandmother
Project Leader: Emel Bayrak Project Partner: Azra Çetin Project Partner: Yiğit Can Özkurt Project Partner: Emine Kaplanduran	Lecturer Nurdan Demir	Elderly Care	Photographs Never Age, the Elderly Are Photographed: A Project on Photography and Well-being Among Older Adults
Project Leader: Enes Firtına	Assoc. Prof. Dr. Kamuran Özdil	Elderly Care	My Health in My Pocket: An Educational Project on Mobile Health Applications for the Elderly
Project Leader: Pelin Dilek Project Partner: Gülcan Özkan Project Partner: Kübra Çiftçi Project Partner: Galieh Hac Ahmet Mohammad	Lecturer Mustafa Güven	Elderly Care	Origami as a Recreational Activity for the Elderly: Watch, Fold, and Have Fun

Project Leader: Emel Bayrak Project Partner: Azra Çetin Project Partner: Yiğit Can Özkurt Project Partner: Emine Kaplanduran	Lecturer Kevser Çağla Gurtaş	Elderly Care	Journey to the Past Through Photographs: The Effect of Reminiscence Activity on Loneliness Levels Among the Elderly
Project Leader: Emine Yıldız Project Partner: Ayşegül Yiğitcan Project Partner: Sudezaz Ağkoç Project Partner: Kübra Karataş	Assoc. Prof. Dr. Kamuran Özdil	Elderly Care	The Role of Television and the Internet in the Health Information-Seeking Behaviours of Older Adults
Project Leader: Ecri Emire Marangoz Project Partner: Ayça Balku Project Partner: Melisa Olece Project Partner: Yasemin Çınar	Assoc. Prof. Dr. Kamuran Özdil	Elderly Care	Examining the Relationship Between Walking and Well-being: The Kızılırmak River as a Recreational Walking Area
Project Leader: Canan Efilioğlu Project Partner: Ayşe Çalıskan Project Partner: Fatma Nur Çoban Project Partner: Şervval Doğdu	Assoc. Prof. Dr. Kamuran Özdil	Elderly Care	Accessibility of Parks for the Elderly and Their Expectations
Project Leader: Eda Nur Tok Project Partner: Yurdal Aydınç Project Partner: Gizem Uslu Project Partner: Rabia Erkan	Lecturer Kevser Çağla Gurtaş	Elderly Care	A Quasi-Experimental Study on the Effect of Reading Books on Sleep Quality Among the Elderly: A Nursing Home Case Study
Project Leader: Fatma Ayça Soyselçuk Project Partner: Sudezaz İlhan, Project Partner: Bilişra Keleş Project Partner: Damla Kanath	Assoc. Prof. Dr. Kamuran Özdil	Elderly Care	Visual and Auditory Applications to Improve Medication Adherence Among Elderly Smartphone Users: The Case of Kayseri City

Featured Publications

Yüzüak, B. N., Dalkılıç Cürmen, F., & Efeoğlu, G. N. (2024, September 18–21). Internet addiction and related variables in guidance and psychological counseling undergraduate students: Ankara-Nevşehir example [Conference presentation]. International Education Congress 2024, Ankara, Turkey.

Yüzüak, B. N., Yıldız Taşdemir, C., & Çelen, A. (2024). Lise öğrencilerinin sosyal medya mahremiyetini koruma becerilerinin çeşitli değişkenlere göre değerlendirilmesi [Conference presentation]. Uluslararası Genç Araştırmacılar Kongresi IV, Ankara, Turkey.

Özer, C. O., Demir Özer, E., & Başdoğan, D. (2025). Sustainability in the industrial catering menus: Nutritional and environmental impact assessment. *Journal of Industrial Ecology*, 29(3), 1013-1021.

Polat, K., Gömleksiz, M., Oral, K., Gözel, N., Solowski, G., Kaymaz, T., & Gürsu, M. F. (2024). Correlation of triethylamine N-oxide (TMAO), LPS, and TNF-alpha levels with clinical features of the disease in patients with and without septic shock infected with COVID-19 virus. *Clinical therapeutics*, 46(12).

Bülbül, H., & Leblebici, Z. (2024). Determination of heavy metal transfer from soil to Beta vulgaris L. (sugar beet) and evaluation of human health risks. *The Black Sea Journal of Sciences*, 14(4), 2103–2114.

Küçük Öztürk, G., Muz, G., Özdil, K., & Öztürk, R. İ. (2024). Effective Motivational Interviewing-Based Counseling for Knee Osteoarthritis: A Randomized Controlled Trial. *Orthopedic nursing*, 43(6), 334–344.

Erdoğan Yüce, G., Döner, A., Bilgin, A., & Muz, G. (2024). The effect of mindfulness-based interventions on caregiver burden, quality of life and psychological distress in caregivers of adults with chronic diseases: Systematic review and meta-analysis of randomized controlled trials. *Worldviews on evidence-based nursing*, 21(5), 528-541.

Elcelik, U. E., Özçelik, H., & Muz, G. (2024). The Effect on the Care Behaviors of Nurses Working in Intensive Care Clinics of Moral Distress Experienced During End of Life Patient Care. *Omega*, 90(1), 388-403.

-Çalışkan, Z., Kalaycı, E., & Özcan, A. (2024). Difficulties and Advantages Experienced by Mothers of Pediatric Oncology Patients During the COVID-19 Pandemic. *The Journal of Current Pediatrics*, 22(3), 177-185.

Yazlık, E. N., & Saraçoğlu, O. G. (2024). A deep learning-based real-time hypothermia and hyperthermia monitoring system with a simple body sensor. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, 238(7), 827-836.

Educational Activities Conducted in 2024

Significant research has been conducted within the scope of master's thesis studies at NEVÜ. These studies have been carried out to contribute to academic knowledge production as well as to derive practical insights in the fields of health and education.

As part of master's thesis work at NEVÜ, important research in child health and safety was conducted under the supervision of Assoc. Prof. Dr. Zehra Çalışkan, including "Identification of Safety Measures for Home Accidents and Evaluation of First Aid Self-Efficacy of Mothers of Hospitalized Children" and "Determining the Anxiety and Fear of Children between 5-10 Years Old to get Dental Treatment to Receive Dental Treatment".

These studies involved identifying the safety measures taken by mothers of hospitalised children against home accidents, evaluating their first aid self-efficacy, and assessing the anxiety and fear levels of children aged 5–10 visiting the hospital for dental treatments. The findings of these studies have contributed to enhancing child safety, preventing domestic accidents, and ensuring that children's psychological needs are considered in clinical practice.

Social Activities Conducted in 2024

At NEVÜ, a seminar titled "Healthy Social Development in Youth" was organised under the coordination of Lecturer Veysel Şirvan Çetin from the Vocational School of Health Services to support the social development of young people. The seminar aimed to raise awareness among youth and enhance their social skills, providing significant contributions to the participants' personal and social growth.



Vocational School of Health Services Community Contribution Projects

In 2024, the Vocational School of Health Services at NEVÜ carried out various projects aimed at enhancing students' sense of social responsibility. These initiatives reflected the university's commitment to social responsibility and sought to strengthen students' engagement and interaction with the community.

Good Health and Well-Being

PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE Advisor: Lecturer Nurdan Demir	
Medical Promotion and Marketing	Building Shelters for Street Cats
Medical Promotion and Marketing	Stationery Aid for Earthquake-Affected Children in Hatay
Medical Promotion and Marketing	Park and Garden Cleaning and Environmental Awareness Activities
Medical Promotion and Marketing	Providing Food and Water Support for Stray Animals
Health Institutions Management	Providing Hairdressing and Grooming Care for the Elderly
Medical Documentation and Secretarial	Providing Social Support to an Elderly Person Living Alone
Medical Documentation and Secretarial	Providing Hair and Beard Care for Elderly People Living Alone

Child Development	First Steps Towards Healthy Living from the Little Ones
Child Development	Eat Healthily, Live Healthily
Child Development	Health from 7 to 70
Child Development	Manage Stress, Do Not Let Stress Manage You
Child Development	Hygiene with the Elderly
Child Development	Beware of Obesity, Add Movement to Your Life
Child Development	If You Want to Live Long, Focus on Healthy Eating
Child Development	Lives Without Barriers in Colours, Step into Health through Art
Child Development	Light of the Past, Guides of the Future
Child Development	Step Count Competition for Healthy Living

PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE HEALTHY LIFE COURSE Advisor: Lecturer Fatma Çakır Aksungur	
Child Development	Eating Properly During Ramadan
Child Development	Clean Teeth
Child Development	Star Team
Child Development	The Value of Healthy Living for Humans
Child Development	Healthy Environment, Healthy Life
Child Development	Healthy Steps
Child Development	Step by Step Health
Child Development	Attention! Obesity at Your Door
Child Development	Little Hands Learning
Child Development	Quality Time, Healthy Child
Child Development	Secrets of a Healthy Life
Child Development	Key Points in Personal Care and Hygiene Practices
Child Development	Master Technology, Don't Be Addicted
Child Development	Clean Individuals, Clean Environment

PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE Advisor: Lecturer Dr. Ayşen Tükel	
Child Development	Our Colourful School
Child Development	Hobby Garden (Renovation of seating areas on NEVÜ Campus)
Child Development	I Love and Beautify My School
Child Development	Street Paws (Supporting stray animals to foster love for animals)
Child Development	Intergenerational Solidarity: Nursing Home Visit (Pot painting and flower planting activity)
Child Development	Fun Faces (Animation Activity)
Child Development	Street Paws
Child Development	Art Through Recycling (Making artworks from leftover materials)
Child Development	A Day at KEYDER (Activity with individuals with special needs through SKS)
Child Development	Don't Feel Alone, Don't Stay Alone: Nursing Home Visit (Activity at Second Home Care Centre)
Child Development	The Unifying Power of Art: Notes That Overcome Barriers (KEYDER music activity)
Child Development	Anıgürüm Keyrings Making (Proceeds from keyrings used for children)
Child Development	Motivation Activity for the Elderly
Child Development	Table Tennis at Any Age
Child Development	Stitch by Stitch, Love
Child Development	Activities in Child Care Houses (Sevgi Evleri) for Children
Child Development	Motivation Activity for Older Adults
Child Development	Peaceful Moments at the Nursing Home
Child Development	Special Moments with Children with Special Needs (Drama and animation activities with special needs students at a MEB school)

Child Development	Nutrition in Adolescents
Child Development	Little Hearts Beating Healthily
Child Development	Technology-Free Zone
Child Development	A Cup of Health or Addiction?
Child Development	The Silent Epidemic of Modern Times: STRESS
Child Development	Medication Misuse
Child Development	Connect to Life, Not Screens
Child Development	The Effect of Exam Anxiety on Student Performance
Child Development	One More Step Towards Healthy Living for Children
Child Development	Healthy Steps
Child Development	The Secret to a Healthy Smile in Children
Child Development	Being a Woman on the Career Path
Child Development	Every Step Healthy, Every Breath Hope
Child Development	Healthy Eating
Child Development	A Step Towards Healthy Living
Child Development	Social Life, Healthy Living
Child Development	No Panic! You Are the First Responder!

4- QUALITY EDUCATION

4 QUALITY EDUCATION



Research Activities Conducted in 2024

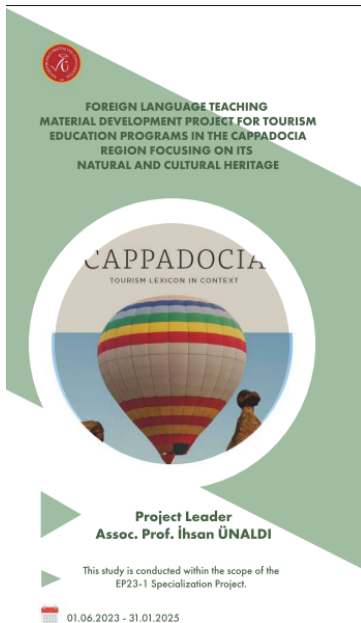
NEVÜ Specialization Coordination Projects

Supported by the NEVÜ Specialization Coordination Office and led by Assoc. Prof. Dr. İhsan Ünalı, the project titled “Foreign Language Teaching Material Development Project for Tourism Education Programs in the Cappadocia Region Focusing on its Natural And Cultural Heritage” aims to develop foreign language instructional materials centered on the natural and cultural heritage of the Cappadocia region for students studying tourism. The materials, to be produced in German, French, and English, will present aspects of the region’s historical, cultural, and natural values, providing students with a locally and regionally focused educational resource. The project intends for these materials to be incorporated into the curricula of tourism faculties, vocational schools with a focus on tourism, and tourism vocational high schools in Cappadocia.

https://dosyalar.nevsehir.edu.tr/e49517f4b1d94f9b8d7d807aafb43eb6/ihsan-unaldi_compressed.pdf

Supported by the NEVÜ Specialization Coordination Office and led by Prof. Dr. Mustafa Tahiroğlu, the project titled “Values Education with Cultural Heritage” aims to identify the needs and challenges related to the social, cultural, moral, human, and ethical values of NEVÜ students and address them through a values education programme integrated with the teachings of Hacı Bektaş Veli. The project seeks to enhance students’ learning outcomes in values education while contributing to the research and dissemination of Hacı Bektaş Veli’s principles.

<https://dosyalar.nevsehir.edu.tr/f2954b58fca0f5f5a7212636374af9e8/mustafa-tahiroglu.pdf>



TÜBİTAK 2218 Postdoctoral Research Program Project

Conducted under the supervision of Dr. Kadriye Bayram from the Department of Mathematics and Science Education in the Faculty of Education, the project titled “The Impact of Entrepreneurship-Based Integrated Skills Training on Prospective Science Teachers’ Pedagogical Entrepreneurship Competencies and Sustainability Literacy in the Context of Sustainable Development” is a TÜBİTAK 2218 Postdoctoral Research Programme project (2023–2025, 22 months). The project aims to examine the effects of entrepreneurship-based integrated skills training designed to enhance prospective science teachers’ competencies in pedagogical entrepreneurship and their sustainability literacy.

Aligned with NEVÜ’s vision, this study supports the goals of quality education, research, and societal contribution, aiming to help students and the academic community develop competencies in sustainable development and entrepreneurship.

Featured Publications

Yüzüak, B. N., & Nalbantoğlu Yılmaz, F. (2024). Soruları gözden geçirmede farklı yapay zekâ uygulamalarının karşılaştırılması: Doğru-yanlış önermeleri üzerine bir uygulama. Presented at the International EJER Congress, Kocaeli, Türkiye

Bayram, K., & Aslan, O. (2024, September 4–7). Sürdürülebilir kalkınma konularında girişimcilikle bütünleştirilmiş beceri eğitime yönelik pedagojik model önerisi. Sözlü bildiri, 16. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi (UFBMEK), Edirne, Türkiye.

Bayram, K., & Aslan, O. (2024, September 18–21). Sürdürülebilirlik çalışmalarındaki öğretim senaryolarının içerik analizi ile incelenmesi. Sözlü bildiri, International Education Congress (EDUCongress), Diyarbakır, Türkiye.

Bayram, K., & Aslan, O. (2024). Sürdürülebilirlik okuryazarlığı. H. Yıldızlı (Ed.), 21. Yüzyılın Yol Haritası: Çok Boyutlu Okuryazarlık Kitabı (pp. 349–398). Nobel Yayıncılık.

İğci, N. (2024). Online tools for bioinformatics education: A strategy for active learning. Presented at the FEBS Education and Training Conference.

Educational Activities Conducted in 2024

Students of Nevşehir Hacı Bektaş Veli University Vocational School of Health Services carried out various educational and awareness-raising projects with the aim of contributing to society. Through seminars, informative events, and practical activities organised within the scope of these projects, both the professional development of students was supported and public awareness on health-related issues was enhanced.

PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE	
Advisor: Lecturer Nurdan Demir	
Medical Documentation and Secretarial	Creating a Library at the Nevşehir KYK Girls’ Dormitory
Medical Documentation and Secretarial	Distributing Aid Packages during Ramadan
Medical Documentation and Secretarial	Establishing a Book Reading Group and Organising Book Discussion Days
Medical Documentation and Secretarial	Collecting and Organising Books for NEVÜ SHMYO (Vocational School of Health Services) Library
PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE	
Advisor: Lecturer Dr. Ayşen Tükel	
Child Development	Music Education

Social Activities Conducted in 2024

In 2024, under the coordination of Lecturer Şükran Doğru Gürpınar from Avanos Vocational School of Fine Arts, a series of workshops were organised to support the participation of individuals with special needs in artistic production processes.

Within this scope, events titled “Ceramic Workshop with Students and Families of the Cappadocia Disabled Talents Association,” “Handcrafted Jewellery Workshop for Individuals with Special Needs at Avanos Vocational School of Fine Arts,” “World Painters’ Day Event with Individuals with Special Needs at Avanos Vocational School of Fine Arts,” and “Handmade Yarn Doll Workshop for Individuals with Special Needs at Avanos Vocational School of Fine Arts” were held. These activities provided participants with opportunities to gain experience in handicrafts, express their creativity, and develop social interaction skills. The events aimed to enhance social inclusion, promote equal opportunities, and strengthen the active participation of disadvantaged individuals in social life. In this regard, the initiatives are aligned with SDG 10 and SDG 11.



A Conference on “Metaverse and Artificial Intelligence” Held at NEVÜ

The NEVÜ Software and Innovation Club organised a conference titled “Metaverse and Artificial Intelligence,” featuring researcher, author, and Chairman of the Türkiye Thought Platform Board of Directors, Taşkın Koçak, as the keynote speaker. During the conference, Koçak shared insights on Metaverse (Virtual Universe) and artificial intelligence technologies, presenting examples of how augmented reality (AR), virtual reality (VR), Web 3.0, XR, blockchain, and artificial intelligence are utilized in various fields such as education, social life, business, tourism, and healthcare.



International Conference on Mathematics and Mathematics Education (ICMME-2024)

The International Conference on Mathematics and Mathematics Education (ICMME-2024), themed “Mathematics in Cappadocia in Memory of Alev Alatlı,” was held at Nevşehir Hacı Bektaş Veli University (NEVÜ). Organised by the Turkish Mathematical Society in collaboration with Cappadocia University (KÜN) and hosted by NEVÜ, the conference emphasized the importance of national and international collaboration in mathematics, the contribution of scientific activities to national development, and the promotion of mathematics education. During the event, the Turkish Mathematical Society presented the “Lifetime Service to Mathematics Award” to Prof. Dr. Ömer Akın.

Over the course of three days, a total of 124 papers were presented across 11 sessions. Participants also visited the “Mathematical Arts and Exhibition” and took part in activities such as an inter-high school mathematics competition and a chess tournament, fostering both scientific and cultural exchange.





Research Activities Conducted in 2024

The “Supporting Women’s Access to Justice in Türkiye” Multi-Stakeholder Meeting

The project “Supporting Women’s Access to Justice in Türkiye”, jointly implemented by the European Union and the Council of Europe, aims to strengthen women’s access to justice, enhance gender sensitivity in legal aid services, and improve women’s legal awareness to enable them to exercise their rights effectively. As part of the project, a multi-stakeholder meeting was held in Nevşehir with the participation of representatives from Nevşehir Hacı Bektaş Veli University (NEVÜ), Cappadocia University, public institutions, non-governmental organizations, and local authorities.

NEVÜ was represented by Lecturer Veysel Şirvan Çetin, the Deputy Director of the Women’s Studies Application and Research Centre (NÜKÇAM), who delivered a presentation titled “The Role of Local Civil Society Actors in Women’s Access to Justice.” The presentation introduced the centre’s mission and its ongoing activities to the participants.

The meeting fostered exchange of knowledge and experience among stakeholders, contributing to the empowerment of women’s access to justice and the promotion of gender equality awareness. This event represents a practical example of a multi-stakeholder collaboration supporting the objectives of SDG 5 – Gender Equality.



Featured Publications

Yüzüak, B. N., & Acay, B. N. (2024, Mayıs). Yüzüak Cinsel Eğitime Yönelik Ebeveyn Tutum Ölçeği [Sözlü bildiri sunumu]. Uluslararası Genç Araştırmacılar Kongresi - IV, Ankara, Türkiye.



Educational Activities Conducted in 2024

Educational Activities within the Scope of Gender Equality

Nevşehir Hacı Bektaş Veli University (NEVÜ) conducts courses and academic activities that support gender equality within the framework of the Sustainable Development Goals (SDGs). These courses aim to raise students' awareness of gender issues, cultivate an egalitarian perspective, and develop knowledge and skills to address gender-based inequalities.

Course content covers topics such as the concept and theories of gender, the social, economic, political, and cultural dimensions of gender, women's rights, gender equality policies, feminist theory and movements, and gender equality in education and the workplace. Additionally, students are encouraged to develop approaches for evaluating the relationship between individuals and society, social development processes, and the interaction of gender roles with social structures. Through these comprehensive educational activities, NEVÜ strengthens students' gender sensitivity, contributes to the development of an inclusive and egalitarian academic culture, and provides an example of implementing SDG 5 – Gender Equality at the higher education level.

Civil Society Organizations and Social Work Course Activity

Within the scope of an activity organised by the Social Work Programme at NEVÜ, information booths were set up to raise students' social awareness. Over the course of two days, the event provided information and engagement opportunities on topics such as human rights, rights of the elderly, rights of persons with disabilities, children's rights, youth rights, gender equality, and combating addiction.

The activity aimed to develop students' sense of social responsibility and raise awareness on critical issues such as human rights and gender equality. Events of this nature organised by the university, contribute to promoting gender equality awareness within the framework of the Global Goals.



Social Activities Conducted in 2024

NEVÜ Rector Meets with Women Academics

NEVÜ Rector Prof. Dr. Semih Aktekin, in coordination with the Women's Studies Application and Research Centre (NÜKÇAM), held an event bringing together women academics at the university to provide an opportunity for sharing experiences and offering suggestions. During the event, the contributions and achievements of women academics were highlighted, while the challenges they face were discussed and potential solutions were shared. This meeting aimed to enhance the motivation of women academics, encourage their active participation within the university, and strengthen awareness of gender equality. Through such initiatives, the university continues to support an inclusive and equitable academic culture and to concretely advance the vision of SDG 5.



March 8 International Women's Day Panel: Women from the Perspective of Different Disciplines

Under the coordination of NEVÜ Women's Studies Application and Research Center (NÜKÇAM), a panel was organized within the scope of March 8 International Women's Day. The panel aimed to inspire participants by addressing women's influence in social, cultural, and academic spheres, their roles in decision-making processes, and the importance of women's empowerment from the perspective of different disciplines. This event serves as an example that raises awareness of gender equality, promotes women's participation in all areas with equal opportunities, and embodies the vision of SDG Goal 5. Through such activities, NEVÜ motivates its students and stakeholders to contribute to global equality and inclusiveness goals.





8 MART
DÜNYA KADINLAR GÜNÜ

Üniversitemiz Kadın Çalışmaları Uygulama ve Araştırma Merkezi (NÜKÇAM) tarafından düzenlenecek olan "8 Mart Dünya Kadınlar Günü" etkinliğimize katılımınız ile onurlandırmanızı dileriz.

Dr. Öğr. Üyesi Gülhan KÜÇÜK ÖZTÜRK Prof. Dr. Semih AKTEKİN
NÜKÇAM Müdürü Rektör

8 Mart 2024 Cuma
Saat: 14:00
Yer: NEVÜ Vali Şinasi Kuş Kongre ve Kültür Merkezi
Karavezir Salonu



8 MART DÜNYA KADINLAR GÜNÜ

Etkinlik Programı
14:00: Açılış Konuşmaları
PANEL
FARKLI DISİPLİNLERİN PERSPEKTİFİNDEN "KADIN"
Moderatör: Dr. Öğr. Üyesi Gülhan KÜÇÜK ÖZTÜRK
NÜKÇAM Müdürü

14:20: "Sanat ve Cumhuriyetin Işığında Kadın"
Prof. Dr. Nüshet Gökşın YENER METİN
Nevşehir Hacı Bektaş Veli Üniversitesi Güzel Sanatlar Fakültesi

14:40: "Türk Kültür Tarihinde Kadın"
Doç. Dr. Kübra YILDIZ ALTIN
Nevşehir Hacı Bektaş Veli Üniversitesi Fen Edebiyat Fakültesi

15:00: "İlahi Dinler Perspektifinden Kadın"
Dr. Öğr. Üyesi Hatice DOĞAN
Nevşehir Hacı Bektaş Veli Üniversitesi İlahiyat Fakültesi

15:30: Teşekkür Belgelerinin Takdimi ve Kapanış

8 Mart 2024 Cuma
Saat: 14:00
Yer: NEVÜ Vali Şinasi Kuş Kongre ve Kültür Merkezi
Karavezir Salonu



Research, Educational, and Social Activities Conducted in 2024

Educational Activities on Clean Water and Wastewater Management

In the educational activities conducted in 2024, students were provided with comprehensive knowledge on the sustainable use of water resources, maintaining water quality and quantity, treatment techniques, and the management of environmental impacts. Additionally, students were taught methods and processes for treating clean water used in industrial processes and the resulting wastewater, gaining practical knowledge and skills in this field. These training activities enhanced students' competencies in clean water management and sustainable wastewater solutions, contributing effectively and concretely to NEVÜ's efforts toward SDG 6.

Water Resources Management at NEVÜ

NEVÜ adopts the efficient and sustainable use of water as a fundamental element of its environmental policies. Across the campus, infrastructure solutions have been implemented to promote water conservation, and efforts such as recycling and awareness-raising activities are carried out to protect water resources. Through these water management practices, NEVÜ supports the sustainable use of natural resources and aims to ensure the availability of clean and safe water for future generations.

Featured Publications

Soysaldı, F., Dincyurek Ekici, D., Soylu, M. Ç., & Mutlugun, E. (2024). Electrochemical and optical multi-detection of *Escherichia coli* through magneto-optic nanoparticles: A pencil-on-paper biosensor. *Biosensors*, 14(603).





Research, Educational, and Social Activities Conducted in 2024

Educational Programs for Sustainable Solutions

NEVÜ has adopted a pioneering educational vision in the field of sustainable energy, providing students with comprehensive training on the production and use of clean energy. The programme focuses on renewable energy systems, energy-efficiency practices, and the integration of environmentally friendly technologies, enabling students to gain both theoretical knowledge and practical experience. This approach, aligned with SDG 7, not only ensures that students stay updated on current technologies but also fosters the development of innovative, sustainable, and socially and environmentally responsible leaders. By offering a visionary educational model for a sustainable energy future, the university aims to contribute to the goals of accessible and clean energy.

“Türkiye and Energy” Conference at NEVÜ

A conference on “Türkiye and Energy” was held at NEVÜ, featuring retired Middle East Technical University (METU) Electrical and Electronics Engineering faculty member Prof. Dr. Ahmet Rumeli as the invited speaker. During the conference, it was emphasized that Türkiye is rich in renewable energy resources, though this potential has not yet been fully utilised. Prof. Dr. Rumeli highlighted that resources such as water, coal, natural gas, and solar energy can be used for electricity generation, noting that current usage meets only about one-third of the country’s potential.

He also pointed out that initiatives and investments in wind and solar energy are ongoing but total energy demand has yet to be fully met. The conference served to raise awareness about energy efficiency and the sustainable use of renewable energy resources.



Featured Publications

Özşahin Koç, F., & Deran, A. (2024). A research on the impact of carbon emissions on financial performance of companies in the Borsa Istanbul Sustainability Index. *Alanya Akademik Bakış*, 8(2), 671-686.

Özşahin Koç, F., & Deran, A. (2024). The impact of carbon emissions on corporate cost of debt (COD): A research on Borsa İstanbul (BIST) Sustainability Index. *Sosyoekonomi*, 32(60), 33-50.

Avci, H., Ozturk, S., & Andeden, E. E. (2024). The evaluation of *Starmerella magnoliae* X3 as a biodiesel feedstock based on triacylglycerol (TAG) production, lipid productivity, and fatty acid profile under nitrogen limitation and acidic pH conditions. *3 Biotech*, 14(10), 254.

Derya-Andeden, M., Andeden, E. E., & Cucer, N. (2024). Neuroprotective effects of microalga *Desmodesmus arthrodesmiformis* EM13 on 6-OHDA induced cell model of Parkinson's disease. *Neurochemical Journal*, 18(4), 800-812.



Research Activities Conducted in 2024

NEVÜ Specialization Coordination Project

Supported by the NEVÜ Specialization Coordination Office and led by Assoc. Prof. Dr. Ömer Çoban, the project titled “Building the Capacity of Travel Agencies with Product and Market Diversification Strategies” aims to identify the challenges faced by travel agencies in the region regarding product and market diversification strategies and to guide them in the successful implementation of these strategies. The project seeks to contribute to the sustainability of natural and cultural heritage, support Cappadocia in becoming a leading destination for heritage tourism, and strengthen the economic, social, and cultural development of local communities. In this context, the project will make a significant contribution to regional development and the capacity-building of the tourism sector.

<https://dosyalar.nevsehir.edu.tr/44a21bcd4009ef9a9c6be41e1c7d93ee/omer-coban.pdf>



Featured Publications

Akın, S., & Güngör Tanç, Ş. (2024). An investigation of the impact of sustainability reports on investment decisions: A study of BIST 30. *Trends in Business and Economics*, 38(4), 211-217.

Akçayır, Ö., & Akın, F. (2024). Sürdürülebilir çevre perspektifinde Türkiye'nin ekolojik açığı ve yakınsama analizi: Fourier KSS birim kök testi. *Politik Ekonomik Kuram*, 8(4), 1188-1202.

Alveroğlu, İ., & Halaç, H. H. (2024, May). Restore and operate-transfer model in cultural heritage assets [Conference paper]. 14th International Istanbul Scientific Research Congress, İstanbul, Türkiye.

Demirel, E. (2024). İşletme ve yönetim perspektifinden görsel haritalama tekniğiyle sürdürülebilir inovasyonun incelenmesi. *Akşehir Meslek Yüksekokulu Sosyal Bilimler Dergisi*, 18, 139-154.

Aras, İ. (2024). Konfüçyüsçülük ve Çin'de sürdürülebilirlik. In M. Özomay (Ed.), *Sürdürülebilirlik için akademik araştırmalar-II* (pp. 77-85). İstanbul: Karadeniz Kitap.

Educational Activities Conducted in 2024

NEVÜ aims to provide its students with a comprehensive understanding of economic growth and sustainable development processes. Courses offered in Economics and related programmes cover labour markets, income distribution, regional development, and social security, strengthening students' abilities to analyse economic systems and develop fair and inclusive solutions.

Decent Work and Economic Growth

This approach, aligned with SDG 8, enables graduates to become socially and economically responsible professionals capable of implementing ethical and sustainable practices in the business world. In this way, the university offers an educational vision that integrates economic growth with decent work opportunities.

Social Activities Conducted in 2024

NEVÜ Students Introduce Science and Art to Young Children in Village Schools

In collaboration with the Child Education Application and Research Centre, the Faculty of Education, and the Health Services Vocational School (SHMYO), NEVÜ organised social responsibility and awareness activities for children in village schools. Students from the SHMYO Child Development Programme held a science festival at Alacaşar Şehit Cebirail Aksöz Primary School in Alacaşar Village, Nevşehir, featuring interactive learning activities such as “Getting to Know the Organs,” “Exploring Space,” “Sensor Detection Game,” and “Astronomy Hologram.” Students from the Faculty of Education, Department of Preschool Education, conducted rhythm, dance, and face-painting activities at 100th Year Primary School in Çiftlik Village, Nevşehir, enabling children to learn while having fun. Additionally, a storytelling session was held at Terlemez Primary School in Gülşehir District to support students’ listening and speaking skills. These activities aimed to enhance the children’s skills in Turkish, music, and science, while also raising their social awareness, and were met with great enthusiasm by the young participants.



Social Responsibility and Heritage Education for Gazi Secondary School Students

A social responsibility project on “Natural and Cultural Heritage Tourism” was conducted for students of Nevşehir Gazi Secondary School by the Department of Tourism Guidance at NEVÜ Faculty of Tourism. Coordinated by Assoc. Prof. Dr. Zeynep Çokal, the project aimed to raise students’ awareness of natural and cultural heritage. During the activity, key tourism attractions and heritage sites in the Cappadocia region were introduced to the students by the department’s faculty member and professional tourist guide and Research Assistant Büşra Yamangil. The programme concluded with a visit to the Faculty of Tourism after the regional tour.



Research Activities Conducted in 2024

NEVÜ Specialization Coordination Projects

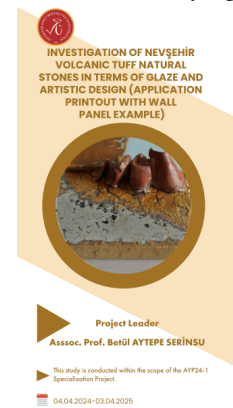
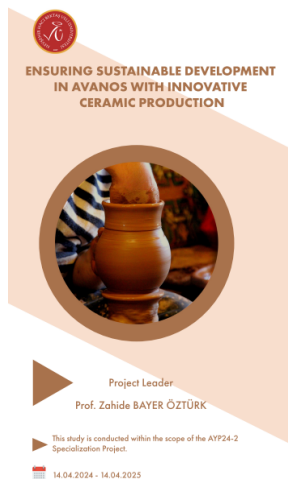
Supported by the NEVÜ Specialization Coordination Office and led by Prof. Dr. Zahide Bayer Öztürk, the project titled “Ensuring Sustainable Development in Avanos with Innovative Ceramic Production” aims to develop sustainable approaches in ceramic production in Avanos in line with regional development goals. The project focuses on utilising local raw materials in ceramic production, reducing environmental impacts, and increasing resource efficiency in production processes.

In the first phase, the use of raw materials obtained from the region’s natural resources in white and red ceramic casting clays was systematically examined, and local production recipes were developed. In the second phase, innovative and artistic ceramic products were designed based on these recipes. In the third phase, training sessions were organised for local ceramic artisans to strengthen the local production capacity. The project promotes the efficient use of local resources, contributing both to environmental sustainability and regional economic development, and is also linked to SDG 12.

<https://dosyalar.nevsehir.edu.tr/475aed79b2fc04e653c20e9dd40a1b26/zahide-bayer-ozturk.pdf>

Supported by the NEVÜ Specialization Coordination Office and led by Assoc. Prof. Dr. Betül Aytepe Serinsu, the project titled “Investigation Of Nevşehir Volcanic Tuff Natural Stones In Terms Of Glaze And Artistic Design (Application Printout With Wall Panel Example)” aims to evaluate the region’s characteristic natural stones in terms of artistic design, innovative production, and sustainable material use. Within the scope of the project, artistic compositions featuring relief surfaces are designed from Nevşehir volcanic tuff stones. Suitable glazing and decoration applications are developed for these surfaces to produce aesthetically valuable wall panels. The project also involves determining appropriate glaze compositions for Nevşehir stone, creating original glaze recipes based on surface compatibility, and producing prototype wall panels. These panels are designed to be installed on interior or exterior common areas of NEVÜ and are further enhanced with alternative firing techniques, such as raku firing, to achieve diverse artistic effects on the surfaces. The project contributes to the circular economy by utilizing stone waste in the production process and promotes the efficient use of local resources.

<https://dosyalar.nevsehir.edu.tr/6ac2f7a6e672420c310936b30380ec2e/betul-aytepe-serinsu.pdf>



TÜBİTAK 2209-A Project: An Approach within the Context of Sustainability and Waste Management

Under the supervision of Prof. Dr. Hilal Yıldız from the Department of Food Engineering at NEVÜ Faculty of Engineering and Architecture, the TÜBİTAK 2209-A project titled “Extraction of Free and Bound Phenolics from Different Grape Pomaces Generated During Wine Production and Determination of Their Bioactivities: An Approach within the Context of Sustainability and Waste Management” aimed to sustainably utilize grape pomaces (Öküzgözü, Syrah, Cabernet Sauvignon, and Cabernet Franc) produced during wine production in the Cappadocia region. In the project, free and bound phenolic compounds were extracted from the grape pomaces using maceration and ultrasonic extraction methods. The resulting extracts were comparatively analysed for antioxidant activity, total phenolic content, and antimicrobial efficacy. The findings indicate that grape pomace can serve as a high-value ingredient in functional food formulations and as a natural additive in the food and pharmaceutical industries. This approach contributes to the sustainable management of underutilized by-products and supports the achievement of SDG 3, SDG 12, and SDG 13.

Featured Publications

İncebay, H. (2024). A novel nanovoltammetric sensor design for the sensitive determination of caffeic acid in Turkish coffee. *Journal of Food Composition and Analysis*, 136.

İncebay, H. (2024). Construction of a practical and effective nanocomposite and examination of its properties. Paper presented at the 6th International Mediterranean Congress, Rome, Italy.

İncebay, H. (2024, December 10–14). Investigation of the dielectric performance of biopolymer and synthetic polymer blends. Paper presented at the 10th International Asian Congress on Contemporary Sciences, Dubai, UAE.

Alveroğlu, İ. (2024). Investigation of factors causing damage to building facades through a gated residential complex Eskişehir Çağdaş Sitesi. Paper presented at the 3rd International Uludağ Scientific Research Congress, Bursa, Turkey.

Educational Activities Conducted in 2024

Industry and Innovation - Focused Educational Activities at NEVÜ in 2024

In 2024, NEVÜ conducted multifaceted and comprehensive educational activities to support teaching and learning in the fields of Industry, Innovation, and Infrastructure. Within this framework, special training sessions, one-on-one mentorship services, and large-scale informational seminars were organised under the coordination of Cappadocia Technopark and the NEVÜ Technology Transfer Office, specifically targeting the TÜBİTAK 2209-A and 2209-B University Students Research Project Support Programmes. Through these activities, students were encouraged to take an active role in every stage of the project process—from developing research ideas to the application procedure, and from budget planning to receiving academic advisory support. This approach fostered the adoption of a project-based learning methodology across the university, enhancing students’ competencies in scientific research, project development, and entrepreneurship.

In 2024, the university took strategic steps to increase participation in prestigious national technology and innovation competitions, such as TEKNOFEST, aiming to promote technological awareness and innovative thinking. In this context, informational and preparatory meetings were organised with relevant student groups and faculty members. These initiatives aimed not only to enhance the university’s scientific productivity but also to enable students to develop projects integrated with industry, thereby strengthening the institution’s vision for innovative education and training.



Social Activities Conducted in 2024

Software and Innovation Meet in Nevşehir: Cappadocia Technology Summit

The NEVÜ Software and Innovation Club, sponsored by İnceler Medikal and Paşa Balloons, organised the "Cappadocia Technology Summit". As the region's first technology-focused event, the summit featured presentations by technology experts aimed at students. In his opening speech, NEVÜ Rector Prof. Dr. Semih Aktekin emphasized the importance of technology for employment and development, highlighting universities as centres that support students' career and personal growth. Over two days, ten sessions were held, enhancing students' knowledge and awareness in the fields of technology and innovation.



Introduction to Simple Electrical Circuits and Tesla Coil Event

Second-year students from the Control and Automation Technology programme of NEVÜ Vocational School's Electronics and Automation Department organised the "Introduction to Simple Electrical Circuits and Tesla Coil" event for the 4-B class of Nevşehir 19 Mayıs Primary School as part of the "Research Methods and Techniques" course. During the event, student Hüseyin Dikici delivered a presentation on Tesla and the Tesla coil, followed by testing a Tesla coil prototype. Additionally, simple game circuits were demonstrated to the primary school students to increase their interest in science lessons. University students gained valuable experience in preparing presentations and materials for a younger audience.



10- REDUCED INEQUALITIES



Educational Activities Conducted in 2024

Nevşehir Hacı Bektaş Veli University's "Disabled Student Education and Training Directive" and the "Barrier-Free University Unit" stand out as key regulations and practices aimed at supporting equal access and active participation of students with disabilities in higher education. Additionally, guidance and orientation activities for international students from various countries promote cultural diversity and help reduce inequalities.

In 2024, the conference titled "Quality in Higher Education and Student Participation" encouraged students to take a more active role in decision-making processes, indirectly supporting equal opportunities. These initiatives reflect NEVÜ's commitment to creating an inclusive and equitable higher education environment.

Educational Activities to Strengthen Social Equity and Inclusivity

Within the Child Development Programme of the School of Health Services, various activities were carried out throughout 2024 to strengthen social equity and promote inclusivity. The event "The Unifying Power of Art: Notes That Overcome Barriers" aimed to overcome obstacles and support social integration through the universal language of music. In the "Amigurumi Keyring Making" activity, the proceeds from the sale of handmade products were directed to child-focused projects, reinforcing social responsibility awareness.

Additionally, motivational activities for elderly individuals and the "Table Tennis at Any Age" event fostered intergenerational interaction and supported active aging.

The "Special Moments with Children with Special

The "Special Moments with Children with Special Needs" activity encouraged the social participation of children with special needs, while the "Activities in Foster Homes (Sevgi Evleri) for Children" strengthened values of love, solidarity, and social awareness. All these initiatives directly contribute to SDG Goal 10 and align with NEVÜ's vision of building a socially responsible, inclusive, and sustainable future.

PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE Advisor: Lecturer Dr. Ayşen TÜKEL	
Child Development	The Unifying Power of Art: Notes That Overcome Barriers (KEYDER Music Activity)
Child Development	Amigurumi Keyring Making (Proceeds from the keyrings were spent on children)
Child Development	Motivation Activity for the Elderly
Child Development	Table Tennis at Any Age
Child Development	Special Moments with Children with Special Needs (Drama and animation activity with special needs students at MEB school)
Child Development	Activities in Foster Homes (Sevgi Evleri) for Children
Child Development	Motivation Activity for Older Adults

Featured Publications

Turan, E. Z. (2024). Göçle gelen yabancı uyruklu öğrencilerin okul ortamında karşılaştıkları sorunlar: Nevşehir ili örneği. EJer Congress, 156-163.

Akçayır, Ö. (2024). Karbon emisyonunun negatif dışsallığı ve gelir eşitsizliğine etkisi: Multidisipliner bakış açısı. Ekonomi Maliye İşletme Dergisi, 7(1), 18-36.

Social Activities Conducted in 2024

The "Quality in Higher Education and Student Participation" conference, organised by the NEVÜ Quality Club, supports our university's vision of enhancing educational quality standards and strengthening student engagement in line with sustainable development goals.

Reduced Inequalities

The event aimed to increase inclusivity in higher education processes, enable the effective participation of students in decision-making mechanisms, and thereby reinforce equal opportunities in education. The conference, designed to engage students—key stakeholders in higher education quality assurance—provided comprehensive information on topics such as “What is quality in higher education and how can it be improved?”, “What responsibilities can students undertake?”, and “The roles of the Higher Education Quality Council and NEVÜ Quality Office Coordination.” Organised within the scope of the “Scientific and Cultural Activities” course, the conference offered students an opportunity to contribute directly to the quality of academic life while fostering a sense of social responsibility. Such initiatives, implemented in parallel with SDG – Goal 10, reinforce the university’s commitment to fairness, participation, and sustainable development in education.





Konferans

YÜKSEKÖĞRETİM'DE KALİTE VE ÖĞRENCİ KATILIMI





Aleyna Kaya
Moderatör



Sinem Yılmaz
Kulüp Başkanı



SALI
24 ARALIK, 2024



SAAT
15.30 – 17.00



YER
MUSTAFA HAYRİ
EFENDİ SALONU

@nevukaliteogrenci Bilimsel kültürel etkinlik dersi kapsamında. Vali Şinasi Kuş Kültür ve Kongre Merkezi, Nevşehir



Research Activities Conducted in 2024

NEVÜ Specialization Coordination Projects

The project led by Prof. Dr. Serkan Şahinkaya and supported by NEVÜ Specialization Coordination, aimed to systematically monitor and manage indoor air quality in the region's natural and cultural heritage sites listed on the UNESCO World Heritage List.

The project focused on identifying the effects of indoor air quality on these sites and determining preventive measures onsite, thereby contributing to the development of sustainable conservation strategies. This work represents a significant step in establishing multi-stakeholder and sustainable approaches for the preservation of the region's natural and cultural heritage.

<https://dosyalar.nevsehir.edu.tr/d388da87a71a8901cd960398abe3941f/serkan-sahinkaya-proje-brosuru.pdf>

The Project led by Asst. Prof. Dr. Durmuş Ali Aydemir and supported by NEVÜ Specialization Coordination, aimed to document, standardize, and transmit to future generations the transitional period dishes that hold an important place in Nevşehir's culinary culture. The project involved fieldwork and semi-structured interviews with local residents to collect relevant data. The identified dishes were standardized into recipes and compiled into a book. The collected information was provided as an academic and practical resource for gastronomy students, contributing to the preservation and promotion of the region's rich culinary heritage. Additionally, the project sought to support the local community's economic and social development and enhance the sustainability of regional tourism and cultural heritage. Standardized recipes were created, tasting events were organized, and the results were widely shared. The project plays a significant role in the conservation and promotion of regional cultural values.

<https://dosyalar.nevsehir.edu.tr/c766a25e61c34036eeb9e047174cc1fc/durmus-ali-aydemir.pdf>

**KAPADOKYA BÖLGESİNDEKİ
DOĞAL VE KÜLTÜREL MİRAS VARLIKLARININ
KORUNMASI İÇİN İÇ HAVA KALİTESİNİN
İZLENMESİ VE SÜRDÜRÜLEBİLİR KORUMA
STRATEJİLERİNİN GELİŞTİRİLMESİ**

Proje Yürütücüsü
Prof. Dr. Serkan ŞAHİNKAYA

Bu çalışma DKMP25-1 No'lu İhtisaslaşma Projesi kapsamında yürütülmektedir.

21.02.2025-20.08.2027

**NEVŞEHİR GEÇİŞ DÖNEMİ YEMEKLERİNİN
ENVANTERİNİN ÇIKARILMASI,
REÇETELENDİRİLMESİ VE UYGULANMASI**

Proje Yürütücüsü
Dr. Öğr. Üyesi Durmuş Ali AYDEMİR

Bu çalışma DKMP25-3 No'lu İhtisaslaşma Projesi kapsamında yürütülmektedir.

07.07.2025-06.10.2026

Featured Publications

Çelikten, S., Bayer Öztürk, Z., & Atabey, İ. İ. (2024). High-temperature resistance of ceramic sanitaryware waste and fly ash-based geopolimer and hybrid geopolimer mortars produced at ambient curing conditions. *Construction and Building Materials*, 446.

Çelikten, S., & Baran, B. (2024). A comprehensive assessment of mechanical and environmental properties of waste basalt powder-modified high strength mortars exposed to high temperature. *Next Materials*, 5.

Sarıdemir, M., Çelikten, S., Bulut, M., & Deniz, S. (2024). Comparative analysis of long-term and high temperature performances of OPC based high strength mortar and silica fume based high strength geopolimer mortars. *Structures*, 68.

Kaya, M., İlkentapar, S., Durak, U., et al. (2024). Physical mechanical and microstructural properties of kaolin-based fly ash-added geopolimer mortars. *Iran Journal of Science and Technology, Transactions of Civil Engineering*, 48, 3559–3572.

Eser, A., Bayer Öztürk, Z., Atabey, İ. İ., & Çelikten, S. (2024). Uçucu kül ve farklı seramik sektörü atıklarının kullanımı ile üretilen geopolimer harçların dayanım özellikleri. *Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi*, 13(2), 550-557.

Öz, H. Ö., & Güneş, M. (2024). The effects of synthetic wollastonite microfibers on PVA fiber-reinforced engineered geopolimer composites. *Materiales de Construcción*, 74(354).

Educational Activities Conducted in 2024

“Umut Kuşları” Community Activity for Earthquake-Affected Students in Kahramanmaraş Elbistan

Within the scope of the Community Service Course, students from the Guidance and Psychological Counseling Department of the Faculty of Education organised an activity under the “Umut Kuşları” community for earthquake-affected students at Kahramanmaraş Elbistan Kuzey Marmara Otoyolu Primary School, under the supervision of Associate Professor Dr. Emine Zehra Turan. The team visited children studying in container settlements in Elbistan, one of the regions most affected by the earthquake, and engaged them in various activities such as tug-of-war, face painting, competitions, colouring activities, and individual consultations to boost their morale and motivation. Gifts and balloons were also distributed to provide social and emotional support. This activity contributed to strengthening post-disaster social solidarity, supporting the psychosocial recovery of children, and ensuring continuity in education.



NEVÜ Social Cohesion and Inclusion Activities in 2024

NEVÜ has carried out various activities that support city-community integration and reinforce its vision of inclusive higher education. In this context, the university successfully conducted the application and placement processes for international student admissions for the 2023–2024 academic year, aiming to encourage individuals from diverse cultural backgrounds to participate in academic life. Additionally, student club orientations, social events, and various courses organised through the Continuing Education Application and Research Centre (NEVSEM) contributed to enhancing social cohesion, quality of life, and community engagement among local residents, students, and stakeholders.

NEVÜ Continuing Education Application and Research Centre NEVSEM Activities

A wide range of educational and cultural activities organised by NEVÜ Continuing Education Application and Research Centre (NEVSEM) have significantly contributed to the university's vision of social inclusivity, lifelong learning, and city-community engagement. Through NEVSEM, long-term Chinese and Russian language courses, English YDS preparation courses, Ottoman Turkish and archival reading programmes have enabled both local and international participants to engage in multicultural learning environments. Additionally, programmes such as “Artistic Activities 1: Bendir Course,” “Mind Mapping Training,” “Philosophy-Theology Workshops,” and “Academic Use of Artificial Intelligence Tools Course” have offered an interdisciplinary approach to enhancing participants' intellectual and digital skills. The “Cappadocia Region Natural and Cultural Heritage Specialization Training” represents a strategic initiative connecting academic knowledge with the local community to support the preservation of regional heritage. These initiatives provide a strong foundation for fostering a sustainable and inclusive campus-community relationship.



Social Activities Conducted in 2024

5th National Engineering Geology and Geotechnics Symposium (MÜHJEO 2024) at NEVÜ

The 5th National Engineering Geology and Geotechnics Symposium (MÜHJEO 2024), organised in collaboration between Nevşehir Hacı Bektaş Veli University (NEVÜ) and the Engineering Geology Association, was held on June 6–8, 2024, at the NEVÜ Vali Şinasi Kuş Culture and Congress Centre. The symposium featured 13 sessions with a total of 54 presentations, attracting participation from national and international geology and civil engineers, academics, and experts. Discussions focused on topics such as the preservation and improvement of the natural and cultural heritage of the Cappadocia Region through engineering geology practices. The symposium also presented the annual “Erguvanlı Engineering Geology Awards” for outstanding master’s and doctoral theses, encouraging scientific research in the field. The event contributed to enhancing scientific collaboration at regional and national levels and facilitated the initiation of new research projects in engineering geology and geotechnics.



Vocational School Technical Sciences Science Festival

Within the “Technical Sciences Science Festival” organised by NEVÜ Vocational School, projects developed by students from the Department of Electrical and Energy, Department of Electronics and Automation, and Department of Computer Technologies were showcased. The event provided a platform for students to practically demonstrate the knowledge and skills they acquired during their courses. Prototypes and projects in areas such as energy efficiency, automation systems, smart technologies, sensor applications, software, and cybersecurity were presented in a scientific setting.

The festival not only strengthened the university students’ project development and scientific thinking abilities but also contributed to fostering early scientific awareness in society through the participation of invited primary and secondary school students.





Research Activities Conducted in 2024

Production of Activated Carbon from Industrial Food Industry Wastes Project

The “Production of Activated Carbon from Industrial Food Industry Wastes” project, conducted under the supervision of Asst. Prof. Dr. Bülent Zorlugenç from NEVÜ Faculty of Engineering and Architecture, Department of Food Engineering, in collaboration with Döhler Food Industry A.Ş. (Karaman) R&D Centre, was carried out between 1 April 2023, and 30 September, 2024. Within the scope of the project, food waste generated after production in Döhler Food factories—such as pomegranate peels, apricot kernel shells, peach pits, date seeds, and tea infusion residues—was utilized to produce high value-added activated carbon, whose domestic production is limited and mostly met through imports in Turkey. This initiative aimed at recovering industrial waste, efficiently using natural resources, and reducing external dependency. In line with the sustainable production approach, the project contributed significantly to SDG – Goal 12 and Goal 9.

ISO Green Transformation Awards – 2nd Place in Environmentally Friendly Product Category

The “Production of Activated Carbon from Industrial Food Industry Wastes” project, conducted under the supervision of Dr. Öğr. Üyesi Bülent Zorlugenç from the Department of Food Engineering in collaboration with Döhler Food Industry A.Ş. (Karaman) R&D Centre, was awarded 2nd place in the “Environmentally Friendly Product” category at the 2024 ISO Green Transformation Awards. The award recognized the project’s contribution to environmental sustainability through the production of high value-added activated carbon.



This award highlights the project’s tangible achievements in environmentally friendly production, industrial waste recovery, and sustainable manufacturing practices, reflecting NEVÜ’s vision of fostering innovation, sustainability, and strong industry collaborations. <https://www.isoyesilblog.com/iso-yesil-donusum-odulleri-sahiplerini-buldu-2/>

NEVÜ Specialization Coordination Project

The project titled “Developing New Product and Bringing it to Tourism Via Geographically Indicated Local Tastes of Nevşehir” supported by the NEVÜ Specialization Coordination Office and led by Asst. Prof. Dr. Firdevs Yönet Eren, aims to create a gastronomic souvenir product. Within the scope of the project, new products (such as cookies or similar products) will be designed and produced using Nevşehir’s geographically indicated local products. These products are planned not only to contribute to regional development but also to serve as an important means of preserving cultural heritage and passing it on to future generations. The project aligns with the university’s vision of highlighting regional values, supporting sustainable development, and promoting the safeguarding of cultural heritage.

<https://dosyalar.nevsehir.edu.tr/99f14a16e7d783621f5ac62a4d5bfb34/firdevs-yonet-eren.pdf>



TÜBİTAK 2209 - A Project: “Pectin Production from Dried Pomegranate Peels, a Food Industry Waste”

The project was conducted under the supervision of Asst. Prof. Dr. Feyza Kiroğlu Zorlugenç and supported by the TÜBİTAK 2209-A University Students’ Research Projects Support Programme. In this study, pectin was produced from dried pomegranate peels, a by-product of the food industry, using mineral and organic acid treatments. The effects of various processing parameters on pectin yield and quality were systematically examined and evaluated. The project provides significant contributions by valorising food industry waste, creating added value, and supporting sustainable production as well as innovative R&D practices.

Featured Publications

Aktaş, N., & Gerçekaslan, K. E. (2024). Pumpkin (*Cucurbita pepo* L.) pulp flour as a source of dietary fiber: Chemical, physicochemical and technological properties. *Akademik Gıda*, 22(1), 14–22.

Aytepe Serinsu, B. (2024). Porselen sofa eşyalarının an imgesi üzerinden enstalasyon örneklemeleri. *Plastik Sanatlar Alanında Seramik ve Cam Üzerine Yaklaşımlar 6 içinde* (ss. 1-14). Akademisyen Yayınevi Kitabevi.

Aytepe Serinsu, B. (2024). Teknoloji, ekoloji ve sanat bağlamında sürdürülebilir faydalı seramik tasarımlar. *Sanat ve Tasarım Dergisi*, 14(1), 465-485.

Akçayır, Ö., & Akın, F. (2024). Sürdürülebilir çevre perspektifinde Türkiye’nin ekolojik açığı ve yakınsama analizi: Fourier KSS birim kök testi. *Politik Ekonomik Kuram*, 8(4), 1188-1202.

Altaş, İ. S. (2024). Post-petroleum political transformation in James Howard Kunstler’s *World Made By Hand*. *Uluslararası Toplumsal Bilimler Dergisi*, 8(4), 216–228.

Educational Activities Conducted in 2024

Education and Training Activities Aimed at Strengthening Awareness of Sustainable Production and Consumption

Nevşehir Hacı Bektaş Veli University (NEVÜ) Health Services Vocational School’s Medical Promotion and Marketing and Child Development programmes have organised various activities in 2024 to raise environmental awareness and promote the sustainable use of resources.

In the “Collecting Blue Caps for TOFD” initiative led by Medical Promotion and Marketing students, the objectives were to foster a culture of recycling and provide support for individuals with disabilities. Within the same programme, the “Creating an Obstacle Course with Used Tyres” activity highlighted the reuse of waste materials and encouraged the integration of eco-friendly practices into daily life. Child Development students carried out the “Improving and Facilitating Educational Spaces: Directional Sign Painting” project, enhancing the functionality of learning environments while promoting responsible and efficient use of existing materials. Additionally, in the “Art through Recycling” activity, leftover materials were transformed into artistic panels, showcasing creative examples of material reuse. The “Let’s Keep Our Spaces Clean” initiative established collection units on campus to reduce the environmental impact of cigarette butts. All these initiatives contribute directly to SDG – Goal 12 and align with NEVÜ’s vision of fostering environmental responsibility, sustainable development, and social awareness.

PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE	
Advisor: Lecturer Nurdan Demir	
Medical Promotion and Marketing	Collecting Blue Caps for TOFD (Spinal Cord Paralytics Association of Türkiye)
Medical Promotion and Marketing	Creating an Obstacle Course with Used Tyres
PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE	
Advisor: Lecturer Dr. Ayşen Tükel	
Child Development	Improving and Facilitating Educational Spaces: Directional Sign Painting
Child Development	Art Through Recycling (Making artworks from leftover materials)
Child Development	Let’s Keep Our Spaces Clean (Cigarette Butt Collection Unit)

Master’s Theses

Within the scope of master’s thesis studies conducted at NEVÜ Graduate School of Natural and Applied Sciences, two notable research projects were carried out under the supervision of Dr. Feyza Kiroğlu Zorlugenç. In the study titled “Effect of Activated Carbon Produced from Pomegranate Peel on the Color Properties of Pear Juice” by Yasemin Oktar, activated carbons were produced from pomegranate peel—a food industry by-product—using different physical activation methods. The produced activated carbons were characterized through detailed analyses, and their effects on the colour properties of pear juice were investigated. Similarly, in the thesis “Effect of Activated Carbon Produced from Olive Seeds on Some Quality Properties of Date Juice” by Esra Eşsiz, activated carbons were produced from olive seeds, another food industry by-product, using various physical activation techniques. These activated carbons were characterized, and their impact on the quality attributes of date juice was evaluated. Both studies provided significant contributions to sustainable food technologies and the development of value-added products. In this context, they support NEVÜ’s vision aligned with SDG – Goal 12, promoting sustainable production and efficient utilisation of natural resources.

Social Activities Conducted in 2024

Environmental Truck Promotional Event

On 25 December, 2024, the “Environmental Truck” project, organised by the Turkish Environment Agency to raise awareness of sustainable living and promote eco-friendly practices among younger generations, was showcased at NEVÜ Damat İbrahim Paşa Campus. The event featured informative activities on waste management, zero-waste practices, and recycling, providing participants with knowledge on environmental responsibility and sustainable living.

This initiative contributes to the university's ongoing efforts toward a Green Campus and Zero Waste objectives.



NEVÜ Ceramic-Glass Seminar and Workshop: “Turning Waste Glass into Art in Cappadocia”

Nevşehir Hacı Bektaş Veli University (NEVÜ) Faculty of Fine Arts (GSF) Ceramics and Glass Department, in collaboration with Avanos Vocational School of Fine Arts Handicrafts Department and Ahiler Development Agency (AHİKA), organised a ceramic-glass seminar and workshop themed “Turning Waste Glass into Art in Cappadocia.” The event, led by Assoc. Prof. Dr. Betül Aytepe Serinsu from NEVÜ's Ceramics and Glass Department, focused on transforming crushed waste bottles and glass into powdered form, which was then mixed in specific proportions with ceramic clay to create new products. Both theoretical and practical sessions were conducted, involving students from the relevant departments.

The seminar and workshop aimed to support product development and R&D activities, while promoting recycling and sustainability. The initiative contributed to strengthening the creative industries, enriching Avanos' ceramic heritage with new products and designs, and enhancing the sustainability of the Cappadocia destination.



Sustainable Design Practices: “Traces from International Anatolian Ceramics” Mixed Ceramic Exhibition

As part of the 1st International Ardahan Anatolian Ceramics Symposium, Assoc. Prof. Dr. Betül Aytepe Serinsu from the Faculty of Fine Arts, Ceramics and Glass Department, participated in the “Traces from International Anatolian Ceramics” Mixed Ceramic Exhibition. In the exhibition, supports (legs) used in various ceramic kilns—materials that hold shelves and ceramics in place during firing—were transformed into parts of ceramic artworks through unique design approaches. These repurposed materials were redesigned to achieve aesthetic cohesion and become integral elements of the artworks.



This serves as an important example of implementing sustainability through ceramic design and aligns with SDG – Goal 12 as well as NEVÜ’s vision of promoting innovative, environmentally conscious, and sustainable development.

Sustainable Design Practices: “Children of Fire” Exhibition

Assoc. Prof. Dr. Betül Aytepe Serinsu participated in the “Children of Fire” exhibition. In the exhibition, supports (legs) used in various ceramic kilns were transformed into unique designs and integrated into ceramic artworks, being redesigned to achieve aesthetic cohesion.



Research Activities Conducted in 2024

NEVÜ Specialization Coordination Project

Supported by NEVÜ Specialization Coordination and led by Assoc. Prof. Dr. Serhat Çelikten, the project titled “Investigation of the Effects of Silica Fume-Based High-Strength Geopolymer Mortars from Basaltic Pumice of the Cappadocia Region” aims to evaluate the region’s volcanic natural resources through sustainable and innovative approaches. The project seeks to contribute to the preservation of the region’s natural heritage and the sustainability of the local economy, while generating significant outcomes in reducing the carbon footprint, improving air quality, and promoting sustainable mining practices through the development of cement-free basaltic pumice-based geopolymer mortars. The findings are expected to facilitate the development of building materials compatible with the unique identity of regional architecture and offer alternative solutions for the restoration of historical and touristic structures. In this context, the project is directly linked to SDG – Goals 9, 11, and 12.

Featured Publications

Tan, C., & Altaç, İ. S. (Eds.). (2024). *Eco Concepts: Critical Reflections in Emerging Ecocritical Theory and Ecological Thought*. Bloomsbury Publishing (Lexington Books).

Educational, Academic, and Social Activities Conducted in 2024

A “Children Learn While Having Fun” Science Festival Held at NEVÜ

In collaboration with the NEVÜ Child Education Application and Research Centre, the Child Development Programme of NEVÜ Vocational School of Health Services (SHMYO) organised a science festival titled “Children Learn While Having Fun” as part of the “Science and Technology in Children” course. The festival featured a total of 110 workshops designed to develop children’s scientific thinking, exploration, and observation skills, while also fostering environmental awareness and technological literacy. Key themes included natural phenomena, space, sensory organs, healthy nutrition, oral and dental health, robotics and coding, smart home technologies, and astronomy. The event aimed to introduce children to science at an early age, enhance environmental and technological awareness, and support the development of creative and analytical thinking skills. The festival attracted a wide range of participants, particularly pre-school students, and contributed to integrating environmental education into early childhood education. Conducted through interdisciplinary collaboration, the activity also advanced social sustainability objectives.





Research Activities Conducted in 2024

TÜBİTAK 1002-A Project: Scientific Monitoring for Aquatic Life

The project titled “Seasonal Variation of Phytoplankton and Zooplankton Diversity in Tatlarin Dam Lake and Its Relationship with Water Quality Parameters: A DNA Metabarcoding Study” led by Assoc. Prof. Dr. Musa Kar from NEVÜ’s Department of Molecular Biology and Genetics and supported under the TÜBİTAK 1002-A Rapid Support Programme, is directly related to SDG – Goal 14. The project addresses nutrient pollution (eutrophication), a serious threat to aquatic ecosystems caused by human activities, and aims to implement ecological monitoring using environmental DNA (eDNA) metabarcoding methods instead of traditional approaches.

Through the study conducted at Tatlarin Dam Lake, seasonal changes in phytoplankton and zooplankton diversity will be precisely determined, water quality deterioration will be identified, and evidence-based solutions will be developed to prevent algal blooms and protect aquatic biodiversity. The project directly supports the core objectives of Goal 14, including reducing freshwater pollution, conserving ecosystems to ensure their sustainability, and preserving biological diversity. This work also holds potential to provide an innovative monitoring model for the protection and management of Turkey’s water resources.

NEVÜ Scientific Research Project (SRJ) Project

The project titled “Investigation of the Genotoxic Effects of Certain Pesticides on Aquatic Organisms,” led by Assoc. Prof. Dr. Ümit Kumbıçak from NEVÜ’s Department of Molecular Biology and Genetics, examined the genotoxic effects of specific pesticides on zebrafish (*Danio rerio*). The study demonstrated that exposure to high doses of these pesticides can cause genetic damage in the fish. This research is directly related to SDG – Goal 14, as it provides scientific data crucial for protecting the health and biodiversity of aquatic ecosystems.

Additionally, the project contributes significantly to NEVÜ’s vision of environmental sustainability and ecosystem conservation by supporting the protection of water resources at local and global levels and mitigating the environmental impacts of pesticide use.

Featured Publications

Fındık, Ö. & Aras, S. (2024). The assessment of water quality by macroinvertebrate and water quality indices in small reservoir (Damsa, Türkiye). *Ecohydrology*, 17(5).

Educational, Teaching, and Social Activities Conducted in 2024

NEVÜ has offered various educational programmes aimed at raising awareness on environmental and aquatic ecosystem issues. In particular, seminars and workshops were organised for students focusing on environmental awareness, water conservation, and ecosystem protection. These programmes aimed to ensure that students gain knowledge about safeguarding aquatic life and promoting sustainable environmental management.

TÜBİTAK-BİDEB 2237-A Program: "Biodiversity and Ecosystem Monitoring Training"

Under the coordination of Prof. Dr. Erdoğan Çiçek from the Department of Biology at NEVÜ Faculty of Science and Letters, the "Biodiversity and Ecosystem Monitoring Training" was organised within the scope of the TÜBİTAK-BİDEB 2237-A Programme for Supporting Scientific Educational Activities. The training included theoretical lectures delivered by academics from various universities, and 30 students received practical training at Sultan Sazlığı National Park, Ramsar Site, and Aladağlar National Park. The project aimed to raise awareness on biodiversity loss and ecosystem monitoring, as well as to provide knowledge for the protection of endemic and endangered species.





Research Activities Conducted in 2024

“Investigation of Environmental Impacts Arising from Tourism Activities in Cappadocia”

Supported by the NEVÜ Specialization Coordination Office and conducted under the supervision of Assoc. Prof. Dr. Hakan Dulkadiroğlu, the project titled “Investigation of Environmental Effects Arising from Tourism Activities in Cappadocia” focuses on the Cappadocia Region, which experiences a high influx of tourists throughout the year and is renowned for its unique natural and cultural heritage. Tourist activities such as hot air balloon rides, off-road vehicles (ATVs, jeeps, etc.), classic car tours, and horse tours are particularly popular and frequently conducted. However, these intensive tourism activities inevitably cause certain negative environmental impacts. The study aims to investigate the environmental effects of land vehicle tours. Additionally, natural and historical structures as well as natural and agricultural vegetation will be examined to assess the effects of dust emissions resulting from tourism activities. The project is directly related to SDG – Goals 11 and 12 and aligns with the sustainability perspective of preserving Cappadocia’s natural and cultural heritage for future generations. It also supports NEVÜ’s vision of contributing to regional development while promoting an environmentally conscious and sustainable future.

<https://dosyalar.nevsehir.edu.tr/0aa0e8999b085b04b87a7ce2a05f7667/hakan-dulkadiroglu.pdf>



“Conservation of Biological Diversity and Its Integration into Forest Management Plans”

Conducted by Assoc. Prof. Dr. Naşit İğci from the NEVÜ Department of Molecular Biology and Genetics, two studies titled “Preparation of the Forest Ecosystem Services Report for the Çatacık Forest Management Directorate of Eskişehir Regional Forestry Directorate and Development of Recommendations for Integrating Biological Diversity into Forest Management Plans” and “Preparation of the Forest Ecosystem Services Report for the Mihaliçcik Forest Management Directorate of Eskişehir Regional Forestry Directorate and Development of Recommendations for Integrating Biological Diversity into Forest Management Plans” were carried out.

Within the scope of these studies, comprehensive field observations were conducted in the forests under the jurisdiction of the Çatacık and Mihaliçcik Forest Management Directorates to ensure sustainable use, conserve biological diversity, and integrate findings into forest management plans. Based on the collected scientific data, an ecosystem services report was prepared for the benefit of the General Directorate of Forestry. This work contributes to the sustainable management of natural resources and reflects the university’s vision of supporting sustainable development goals through environmentally conscious, science-based, and socially beneficial research.

Featured Publications

Dufresnes, C., Ghielmi, S., Halpern, B., Martínez-Freiría, F., Mebert, K., Jelić, D., Crnobrnja-Isailović, J., Gippner, S., Jablonski, D., Joger, U., Laddaga, L., Petrovan, S., Tomović, L., Vörös, J., İğci, N., Kariş, M., Zinenko, O., & Ursenbacher, S. (2024). Phylogenomic insights into the diversity and evolution of Palearctic vipers. *Molecular Phylogenetics and Evolution*, 197.

Yıldız, M. Z., İğci, N., Üçeş, F., Bozkurt, M. A., Sami, E., Karadağ, Ş., Aydoğdu, M., Akman, B., Sömer, M., & Polat, E. (2024). Herpetofaunal diversity of Şanlıurfa Province (southeastern Turkey) with comments on the taxonomic status of *Platyceps karelini* in Turkey. *Russian Journal of Herpetology*, 31(2).

Educational Activities Conducted in 2024

“Volunteering Activities for the Protection of Terrestrial Life and Environmental Sustainability”

Within the scope of the “Volunteering Activities Course” at NEVÜ Health Services Vocational School, various projects were carried out to increase students’ environmental awareness, contribute to ecological balance, and encourage the adoption of a sustainable lifestyle culture.

These projects included initiatives to enhance animal welfare, expand green spaces, conserve biological diversity, strengthen environmental awareness and the culture of volunteer participation, promote environmentally conscious and nature-friendly practices, provide shelter for animals living on and around the campus, encourage plant cultivation, and implement sustainable agricultural practices. These activities align fully with NEVÜ’s vision of environmentally conscious, sustainable development-focused education that adds value to society.

PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE	
Advisor: Lecturer Nurdan Demir	
Medical Promotion and Marketing	Designing Birdhouses for Birds
Medical Documentation and Secretarial	Supplying Food from Restaurants for Stray Animals
Medical Documentation and Secretarial	Growing and Distributing Pine Seeds
Medical Documentation and Secretarial	Providing Food and Water for Stray Animals
Medical Documentation and Secretarial	Building Shelters for Stray Animals
Medical Documentation and Secretarial	Cleaning Parks and Gardens and Raising Environmental Awareness
Medical Documentation and Secretarial	Planting Saplings on the NEVÜ Campus Area
Medical Documentation and Secretarial	Growing and Gifting Heirloom Seeds
PROJECTS CARRIED OUT WITHIN THE SCOPE OF THE VOLUNTEERING COURSE	
Advisor: Lecturer Dr. Ayşen Tükel	
Child Development	Warm Shelter for Cats
Child Development	Mini Greenhouse (Building a greenhouse in the school garden)
Child Development	Sprouting Shelves

Social Activities Conducted in 2024

“11th International Soil Congress in Partnership with NEVÜ”

NEVÜ in collaboration with the Turkish Soil Science Society, the Ministry of Agriculture and Forestry, and the General Directorate of Agricultural Research and Policies, organised the “11th International Soil Congress” under the theme “Challenge Soil Threats, Save Your Future Horizon.” Over the course of three days, the congress featured a total of 12 sessions held across two halls, with 70 presentations delivered.



16- PEACE, JUSTICE AND STRONG INSTITUTIONS



Research, Educational, and Social Activities Conducted in 2024

“Human Rights Day” Panel at NEVÜ

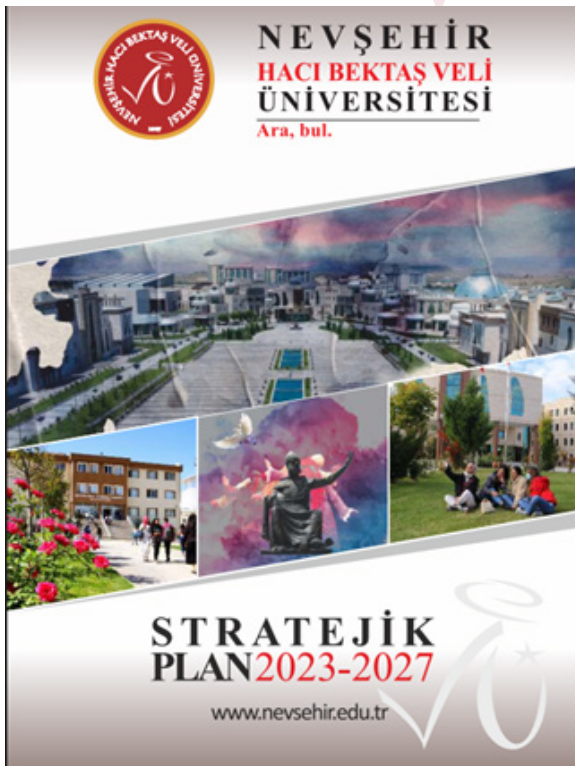
Nevşehir Hacı Bektaş Veli University (NEVÜ), in collaboration with the Nevşehir Governorship, organised a panel on “Human Rights Day” on 10 December 2024, serving as a significant awareness-raising event under the theme of peace, justice, and strong institutions. Moderated by Assoc. Prof. Dr. Leyla Kahraman Yüce, the panel addressed topics such as “Women’s Rights,” “Historical Development of the Universal Declaration of Human Rights,” and “Law Enforcement and Human Rights.” Discussions focused on women’s struggles for rights, the institutionalization of human rights, and the legal responsibilities of law enforcement authorities. The event contributed directly to strengthening human rights awareness, enhancing public-university collaboration, and supporting NEVÜ’s societal engagement mission in line with SDG – Goal 16



Nevşehir Hacı Bektaş Veli University (NEVÜ) Strategic Plan (2023–2027)

developed as a comprehensive roadmap defining the university's long-term vision, mission, and priority objectives. The plan was shaped through the participation of internal and external stakeholders and aims to strengthen strategic governance across the university, focusing on specialization areas, education and training, research and development, societal contribution, and internationalization policies. It ensures transparency and inclusivity in decision-making processes, aligns departmental objectives with strategic plan indicators, and implements effective monitoring and evaluation mechanisms. The plan also supports principles such as the rule of law, the establishment of effective and accountable institutions, inclusive decision-making, and the enhancement of institutional capacity. Consequently, the NEVÜ Strategic Plan serves as a fundamental document that strengthens the university's institutional development, ethical governance, and sustainable management culture.

<https://dosyalar.nevsehir.edu.tr/8c1d159d009b1a70a2cfaac685320ae4/2023-2027-stratejik-plani-internal-nette-yayinlanan.pdf>



NEVÜ Unit Activity Reports

NEVÜ's unit activity reports are comprehensive documents that systematically record and monitor the activities of all academic and administrative units. These reports strengthen the university's transparent, accountable, and inclusive management approach by providing concrete information on education and training, research and development, societal contributions, international collaborations, and administrative processes carried out in alignment with strategic objectives. During the reporting process, units' internal evaluations and performance data are considered to conduct analyses on quality, efficiency, and effectiveness; improvement recommendations are then developed, and a continuous improvement culture is promoted within the PDCA (Plan-Do-Check-Act) cycle. Accordingly, NEVÜ unit activity reports serve as an important management tool that directly contributes to establishing effective, accountable, and transparent institutions, supporting participatory decision-making processes, and enhancing institutional capacity.

Nevşehir Hacı Bektaş Veli University (NEVÜ) 2024 Internal Evaluation Report

The "2024 Internal Evaluation Report" of NEVÜ was prepared within the framework of the 2023–2027 Strategic Plan and aims to assess the effectiveness of the university's internal quality assurance system, highlighting both its strengths and areas for improvement. The report was compiled with the participation of all academic units, in accordance with the YÖKAK (Turkish Higher Education Quality Council) internal evaluation format, under the coordination of the Quality Coordination Office and the Quality Commission. Throughout the process, principles of stakeholder participation, transparency, and accountability were prioritized. Core documents such as the strategic plan, policy papers, and activity and performance reports were used as data sources.

Quality, governance, R&D, education and training, societal contribution, and internationalization policies were disseminated across the university; student representation and feedback mechanisms were strengthened. Educational processes were conducted in line with the Bologna process, and continuous improvement activities were implemented based on stakeholder input. R&D infrastructure was enhanced, project supports and international collaborations increased, and PDCA cycles were effectively applied to embed a culture of quality throughout all units. This report reflects NEVÜ's commitment to quality assurance as a sustainable, inclusive, transparent, and continuously developing institution.

<https://dosyalar.nevsehir.edu.tr/2064f12b3419c35a49188ae8c7d2893a/2024-kidr-24.03.25-yokak-onayli.pdf>

Its existence ensures that principles of ethical management are applied in decision-making processes, institutional trust is enhanced, and ethical standards in research and education are maintained. By doing so, NEVÜ contributes concretely to strengthening a culture of ethical governance and building peaceful, just, and robust institutional structures.

<https://www.nevsehir.edu.tr/etik-kurulu>

Nevşehir Hacı Bektaş Veli University (NEVÜ) Ethics Committee

The NEVÜ Ethics Committee is one of the fundamental mechanisms that strengthen the university's governance framework based on fairness, accountability, transparency, and ethical values. The committee ensures, at the institutional level, compliance with ethical principles in academic, administrative, and research processes, as well as adherence to fair decision-making, responsibility, respect for human rights, impartiality, and transparency.

Operating through specialised subcommittees such as academic ethics, research ethics, and animal experimentation ethics, the committee aims to create a fair and supportive environment for both staff and students.



Research, Educational, and Social Activities Conducted in 2024

Corporate Collaboration and Stakeholder Directive

Nevşehir Hacı Bektaş Veli University has adopted the “Corporate Collaboration and Stakeholder Directive” to organise sustainable cooperation processes with its internal and external stakeholders. This directive sets out the principles for all collaborations the university undertakes with its stakeholders and ensures that these processes are conducted in a transparent, accountable, and sustainable manner.

The directive aims to strengthen the university’s institutional capacity, enhance the effectiveness of its educational and research activities, and reinforce its engagement with society. Within this framework, projects, educational programmes, and joint initiatives carried out between the university and its stakeholders contribute to the development of strong, inclusive, and accountable institutions.

<https://sistem.nevsehir.edu.tr/yonerge-politika/f45ac21ec3977914e623aa6d49490432.pdf>

"Maarif50: Searching for the Future in Distant Places" Project

Within the framework of the Maarif50 umbrella project, implemented in collaboration between the Nevşehir Provincial Directorate of National Education and Nevşehir Hacı Bektaş Veli University (NEVÜ) to enhance the quality of education, improve and expand educational services, and strengthen cooperation among educational stakeholders in the province, our university’s academics have been engaging directly with high school students by conducting lessons.

In 2024, as part of the project, Prof. Dr. Muhammet Şevki Aydın from NEVÜ Faculty of Education, Department of Basic Education, Religious Education programme, taught at Recep Tayyip Erdoğan Project Anatolian Imam Hatip High School, while Dr. Öğr. Üyesi Mehmet Uçar, Head of the Department of Finance, Banking, and Insurance at NEVÜ Gülşehir Vocational School of Social Sciences, conducted lessons at Nevşehir Central Anatolian High School. These activities contribute to enhancing collaboration in education and promoting societal engagement.

"Imagination Festival" by NEVÜ Teacher Candidates

Second-year students from the Early Childhood Education Department of NEVÜ Faculty of Education, as part of the “Community Service Practices” course, organised a preschool festival called “Imagination Festival” at Terlemez Primary School in Terlemez Village, Gülşehir District of Nevşehir. Under the guidance of Dr. Seçil Yıldız, Dr. Mehmet Akif Cingi, Assoc. Prof. Serhat Gündoğdu, and Assoc. Prof. Sema Öngören from the department, the teacher candidates performed interactive puppet shows for children using puppets they had created. In the schoolyard, one section was dedicated to science experiments while another hosted traditional children’s games. Students also presented dance performances and face painting activities in costumes they designed themselves, and gifted kites they had made to the primary and secondary school students.

Partnerships for the Goals

This activity contributed not only to the social, cultural, and cognitive development of the children but also supported an inclusive, participatory, and transparent service approach through collaboration with public institutions. Such constructive partnerships between NEVÜ and local education stakeholders exemplify initiatives that strengthen social cohesion and inter-institutional trust.



“Hand in Hand for Hatay” Project

The “Hand in Hand for Hatay” project, carried out by faculty members and students of the English Language Education Department at NEVÜ Faculty of Education, focused on providing stationery and clothing assistance to students of Maşuklu Hayrattin Çolakoğlu Primary and Secondary School and Kindergarten in the Antakya central district of Hatay, which was affected by the earthquake at the end of 2024. Implemented as part of the “Community Service Practices” course, the project was coordinated by Dr. Tuba Baykara, Dr. Ercan Kaçmaz, and Assoc. Prof. Bengü Aksu Ataç, with expanded participation from students of the Child Development Department at Nevşehir Avanos Girls Vocational and Technical Anatolian High School, field supervisors, and school administration. This inter-institutional collaborative project delivered aid such as books, bookshelves, teaching materials, stationery, toys, shoes, and clothing to the earthquake-affected students. Additionally, students received moral and motivational support through clown performances, face painting, balloon folding, music, and dance activities. The project also included the distribution of Cappadocia-themed gift boxes prepared with contributions from Güray Museum, a major tourist centre in the Cappadocia region. Financial support was provided by donors, transportation was sponsored by the Nevşehir Provincial Administration, and the university’s deanship and rectorate staff contributed to ensure efficient and timely implementation.



Partnerships for the Goals



Voluntary Service from the Heart at the Kızılay

A conference on “The Kızılay and Volunteering” was organised by the NEVÜ Kızılay Club in collaboration with the Nevşehir Kızılay Provincial Directorate. The conference emphasized the historical and religious foundations of volunteering, highlighting its significance from Ottoman charitable foundations to contemporary humanitarian efforts. Participants were informed about ongoing volunteer activities, such as providing iftar meals to students during the month of Ramadan, and were encouraged to engage in voluntary service.



“Let’s Go, Children, to the Learning Stations” Project by NEVÜ Teacher Candidates

Students from the Faculty of Education, Department of Primary Education at NEVÜ, carried out the “Let’s Go, Children, to the Learning Stations” project at TİL Primary School, affiliated with the Ministry of National Education, under the guidance of Assoc. Prof. Dr. Aysun Erginer and within the scope of the “Community Service Practices” course. The project aimed to increase elementary students’ interest in their lessons, support students who were lagging behind, and provide opportunities for children to learn while having fun. This initiative aligns with NEVÜ’s vision of strengthening collaboration in education and promoting community engagement in line with sustainable development goals. Through strong partnerships with local stakeholders and projects that serve the community, NEVÜ continues to contribute both to regional development and global sustainability objectives.





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