BARTIN UNIVERSITY

THE SUSTAINABILITY IMPACT RATINGS REPORT 2026



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Foreword

Dear Stakeholders,

At Bartın University, we regard sustainability as a responsibility that guides all our activities, from education and research to campus management and community engagement. We are committed to connecting our academic expertise with the needs of society, protecting natural resources and preparing our students to contribute to a fairer, more inclusive and more liveable future.

Our 2026 Sustainability Report provides an institutional overview of the work we have undertaken in line with the United Nations Sustainable Development Goals. It presents our activities in areas including access to educational opportunities, health and well-being, equality and inclusion, responsible resource use, climate action and biodiversity conservation. Our research outputs, educational programmes, community engagement activities and campus practices illustrate the different dimensions of our approach to sustainability.

The natural and social characteristics of our region play an important role in shaping our priorities. Through our work on water resource management, adaptation to flood and drought risks, nature conservation and local development, we connect scientific knowledge with practical needs. Our partnerships with public institutions, local authorities, the private sector and civil society organisations help extend the reach of the University's knowledge and experience.

We value our students' participation in research, social responsibility initiatives and environmental practices as an important contribution to the development of a culture of sustainability. This commitment also informs our continuing efforts to strengthen accessibility, equal opportunities and participation in learning and working environments. The contributions of every member of our University help embed our shared responsibilities in everyday life and institutional practice.

By presenting our activities for 2025 through this report, we seek to enable stakeholder review, monitor our progress and establish priorities for the coming years on the basis of concrete evidence. We will continue to align our educational and research capacity more closely with sustainability goals, use our resources efficiently and increase the societal benefit of our work.

I would like to thank our academic and administrative staff, students and all our stakeholders for their contributions to the activities presented in this report and to its preparation. We remain committed to fulfilling our responsibility for a more sustainable future through collective insight and cooperation.

Prof. Dr. Ahmet AKKAYA

Rector of Bartın University

No Poverty

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) provided employment and income opportunities, scholarship guidance, financial assistance and tuition fee exemptions to support students in continuing their education. Research on poverty among older people, career duration and economic vulnerability across generations, together with social support initiatives for individuals in need, constituted the University's activities under SDG 1.

1 Education and Training Activities

Education on Social Security Rights and Social Protection

On 30 May 2025, the Bartın Provincial Directorate of Social Security delivered an information and guidance programme for students in the Social Security Programme at Bartın Vocational School. The programme addressed the importance of social insurance, the rights and obligations of insured persons, registered employment, work permits and general health insurance. Students' questions about workplace-based practical training were also answered, supporting their professional knowledge of the social security system and social protection mechanisms.

Source: Information and guidance event for the Social Security Programme



Teaching on Poverty and Social Protection

During the spring semester of the 2024–2025 academic year, the Social Security Programme at Bartın Vocational School offered SGP232 Poverty and Social Work and SGP152 Social Security Law 1. Poverty and Social Work, taught by Lecturer Dr Yunus Bayram, and Social Security Law 1, taught by Hasan Aslan, incorporated poverty and social protection into the programme's regular teaching activities.

Source: Spring semester 2024–2025 course timetable

Financial Literacy Training

The Department of Business Administration delivered two financial literacy training programmes in 2025. The first was held on 29 April 2025 with the participation of Assoc. Prof. Çağrı Korucu, and the second on 17 December 2025. Announcements of the training aimed to provide participation opportunities for individuals seeking to develop their knowledge of financial literacy.

Sources:
Financial Literacy Training announced for 29 April 2025

Financial Literacy Training 2 announced for 17 December 2025



2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 1 through research focusing on poverty and economic vulnerability. Six University-affiliated publications associated with this goal are indexed in Web of Science.

Research on Poverty among Older People in Türkiye

Hasan Aslan's study, “Poverty among Older People in Türkiye: Who Is More Vulnerable?”, published in Senectus in 2025, used microdata from the Turkish Statistical Institute's (TÜİK) 2006–2023 Survey of Income and Living Conditions. The

research examined relative income poverty among people aged 65 and over, assessing vulnerability in relation to gender, age, education, employment and housing conditions. By identifying differences in poverty risk across groups, the study provided research findings to inform social policy discussions.

Source: https://doi.org/10.26650/senectus.2025.3.2.0987



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Senectus

ARAŞTIRMA MAKALESİ / RESEARCH ARTICLE

Türkiye'de Yaşlı Yoksulluğu: Kimler Daha Kırılgan?*

Hasan Aslan[1]

Öz

Sosyal politikanın en önemli sorun alanlarından birisi olan yoksulluk, kimi kesimler için daha ağır sonuçlar doğurabilir. Örneğin yoksulluğa maruz kalan yaşlı bir fert, gençlere veya kendi gençlik dönemine nazaran bireysel çabayla yoksulluktan daha güç şekilde kurtulabilir. Çünkü bilişsel ve fiziksel kapasitesi duraklamış veya gerilemiş olan fert, genellikle ya daha düşük kazanç elde edebilecek ya da hiç çalışamayacak durumdadır. Öte yandan yaşlılık dönemindeki çeşitli farklılıklar yoksulluk riskini bazı yaşlılarda artırabilir. Bu kesimlerin tespiti, önleyici ve telafi edici politikalar geliştirilmesi açısından önem arz etmektedir. Bu çalışmada Türkiye'de göreli gelir yoksulluğunun hangi yaşlılarda daha belirgin olarak gözlemlendiği, Türkiye İstatistik Kurumunun 2006-2023 Gelir ve Yaşam Koşulları Araştırması mikro veri setleriyle tespit edilmeye çalışılmıştır. OECD eşdeğerlik ölçeğine göre hesaplanan kişi başı ortanca gelirin %60'ı yoksulluk eşiği olarak kabul edilmiş ve 65 yaş üstü fertlere ait sonuçlar birleştirilerek trend analizleri gerçekleştirilmiştir. Çalışmanın bulguları kadınların, daha ileri yaşlıların, eğitim düzeyi daha düşük olanların, sigortasız bir şekilde çalışanların, erken yaşta işe başlayanların belirgin şekilde yüksek yoksulluk oranlarına sahip olduğu yönündedir. Yine ikamet edilen bölgeye ve kır-kent yerleşimine göre yaşlı yoksulluğu önemli ölçüde farklılaşmaktadır. Kirada oturanlar ile kendi evinde oturanlar arasında yıllara göre dalgalanmalar söz konusu olup başka birisinin evinde kira ödemeden kalan yaşlılar, barınma bakımından en yoksul kesimi oluşturmaktadır.

Anahtar Kelimeler: Yoksulluk • Yaşlı • Yaşlı yoksulluğu • Türkiye • Göreli yoksulluk

Elderly Poverty in Türkiye: Identifying Vulnerable Groups

Income and Poverty by Career Duration and Generation

In a study published in Yönetim ve Çalışma Dergisi in 2025, Lecturer Dr Hasan Aslan examined the income and relative poverty levels of workers from different generations using TÜİK's 2006 and 2020 Survey of Income and Living Conditions datasets. The relationship between career duration and income was compared for cohorts born in 1966–1970 and 1981–1985. The findings demonstrated the importance of conditions at labour market entry and career stages in assessing poverty risk.

Source: https://www.yonetimvecalisma.org/download.php?download_file=Makale_2025_9_3_165.pdf

Yönetim ve Çalışma Dergisi **2025 / 9(ÇEEİ Kongresi Özel Sayısı) 137-165**

Kariyer Süresi ve Kuşaklar Bağlamında Emeğin Değeri: Türkiye'de Gelir ve Yoksulluk Üzerine Bir Analiz[1]

The Value of Labor Across Career Duration and Generations: An Analysis of Income and Poverty in Türkiye

Hasan ASLAN[2]

Makale Geliş Tarihi / Received : 24.10.2025
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Research Article

Öz

Bireylerin kariyer süreleri uzadıkça gelirlerinin artması beklenir. Ancak kuşakların deneyimlediği ekonomik ve siyasi gelişmeler, kuşaklar arasında bireysel kariyerden bağımsız olarak gelir eşitsizliklerine yol açabilir. Bu çalışma, TÜİK'in 2006 ve 2020 Gelir ve Yaşam Koşulları veri setleriyle 1966–1970 ve 1981–1985 kohortlarına ait çalışanların gelir ve yoksulluk düzeylerini incelemektedir. Bulgular, gelirlerin 16–25 yıl kıdem aralığında en yüksek seviyelere ulaştığını, başlangıç ve son kariyer dönemlerindeyse asgari ücretler dolaylarında gerçekleştiğini göstermektedir. 2006 veri setinde tüm kıdemlerde yoksulluğun 2020 yılına kıyasla daha yüksek olduğu tespit edilmiştir. Ayrıca 15-23 yaşları arasında işe başlayıp 14 yıl kesintisiz çalışan yetişkin kohortun göreli yoksulluğu 9,2 puan azalırken, genç kohortun 1,4 puan artmıştır. Genç kohort aleyhine oluşan farklılıkların işe giriş dönemindeki ekonomik ve siyasi koşulların yarattığı dezavantajlardan kaynaklandığı düşünülmektedir.

Anahtar Sözcükler: *Kariyer süresi, Kuşaklar arasında gelir eşitsizliği, X kuşağı, Y kuşağı, Göreli yoksulluk*

3 Social Initiatives and Student Support

Supporting Students in Earning an Income during Their Studies

The İŞKUR Youth Programme, implemented jointly by BARÜ and Bartın İŞKUR, allocated 538 places for the spring semester of 2025. Open to students whose household income was below three times the minimum wage, the programme provided for participation on up to three days per week and a daily payment of TRY 1,083. It supported students in earning an income and gaining work experience during their studies.

Source: İŞKUR Youth Programme application and income eligibility conditions, 7 February 2025



A new protocol signed on 8 October 2025 announced 612 places for the 2025–2026 academic year and set 3 November 2025 as the start date. Together with the 538 places announced for the spring semester, the combined allocation across the two periods reached 1,150. Applications for the University's own part-time student employment programme were also received in September–October 2025. Actual monthly participation figures are presented in the table below.

Source: Cooperation protocol between BARÜ and Bartın İŞKUR, 8 October 2025

Source: Part-time student employment application announcement, 12 September 2025





The actual monthly student figures reported in the 2025 annual activity reports are presented below. Each row indicates the number of students working in the relevant month.

Month	Students employed part-time	İŞKUR Youth Programme participants
January	151	0
February	148	0
March	147	477
April	147	477
May	147	510
June	0	507
July	0	0
August	0	0
September	0	0
October	0	0
November	136	613
December	139	607

Source: 2025 University Annual Activity Report, printed page 177, PDF page 190

Source: SKS 2025 Annual Activity Report, PDF page 68

Scholarship Guidance for Students in Need of Financial Support

In 2025, the University supported students' access to application processes by disseminating scholarship opportunities offered by public institutions and private organisations. The places allocated to the University and the application requirements for the Turkish Education Foundation's scholarship programme for academically successful students in financial need were shared with students.

TEV's university scholarship for 2025–2026 provided for monthly payments of TRY 5,800 over nine months. The University offered information and application guidance for this externally funded scholarship programme.

Source: TEV scholarship application announcement, 6 October 2025

Source: TEV allocation and financial need criteria announced on an academic unit webpage

Source: TEV 2025–2026 scholarship conditions and announcement poster

In 2025, 570 students benefited from financial support or assistance provided by the University.

Source: 2025 University Annual Activity Report, financial support indicator, PDF page 274

Support with Education Costs for Students Affected by Disasters and Conflict

In the spring semester of the 2024–2025 academic year, associate and undergraduate students resident in earthquake-affected areas who met the eligibility conditions under national regulations were exempted from student contributions or tuition fees. Associate, undergraduate and postgraduate students who themselves or whose families resided in Gaza, Palestine, were also exempted from student contributions and tuition fees for the relevant academic year. These measures aimed to reduce education costs for students affected by disasters and conflict.

Source: Spring semester 2024–2025 course registration guide, PDF page 3

Initiatives to Support Access to Basic Necessities

The “Happiness Reaching Homes from Hearts” project, implemented in the spring semester of 2024–2025, provided social support for individuals in need. Undertaken with student participation, the project focused on access to basic necessities and social solidarity.

Project	Recorded target group	Implementation period in 2025
Happiness Reaching Homes from Hearts 2025B004	Individuals in need	6 March–6 May

Source: Completed spring semester social responsibility projects, 13 August 2025

Source: Spring semester 2024–2025 project titles, dates and target groups

Source: Social Responsibility 2025 Annual Implementation Report

Zero Hunger

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) provided meal services and undertook food solidarity initiatives to support students' access to food. Practical teaching in organic farming, knowledge exchange with farmers, smart greenhouse systems, student projects to reduce food waste and research on plant resilience formed the University's work on food security and sustainable agriculture.

1 Education and Training Activities

Practical Learning in Organic Farming and Knowledge Exchange with Farmers

The Principles of Fruit Growing and Organic Fruit Cultivation courses in the Organic Agriculture Programme were supported by field activities. Training held on 11 March 2025 in the demonstration orchard of the Bartın Provincial Directorate of Agriculture and Forestry provided first-year students and farmers from Bartın and the surrounding area with theoretical and practical knowledge of fruit tree pruning. On 14 March, students applied the methods they had learned by pruning apple trees.

Source: Pruning training and farmer participation, 11 and 14 March 2025





On 30 May 2025, a technical visit was organised jointly with the Provincial Directorate of Agriculture and Forestry to a commercial aronia orchard in Çakraz Şeyhler village, Amasra. Practical training covered organic aronia cultivation, soil sampling and orchard establishment, and students planted saplings in groups. Bringing together the Organic Agriculture and Landscape and Ornamental Plant Cultivation programmes, the activity used a local production site as a learning environment.

Source: Practical training in an organic aronia orchard, 30 May 2025



Vocational Education in Cooperation with Production Enterprises

During a technical visit on 23 May 2025, students examined vegetable seedling production at Duranlar Fide in Çaycuma. A company representative demonstrated the stages from seed sowing to seedling sales. The visit to Arifiye Fidancılık also addressed plant species, diseases and pests, irrigation, fertilisation and marketing.

Source: Technical visit to seedling production enterprises, 23 May 2025



Training on Healthy Nutrition and Informed Consumption

On 29 May 2025, academic and administrative staff attended the training “What Are We Eating and Consuming?”. Delivered by Assoc. Prof. Zafer Ceylan, the session examined food composition, health effects, food label reading and informed product selection.

Source: “What Are We Eating and Consuming?” training, 29 May 2025





The 2025 in-service training programme also included “New-Generation Approaches to Nutrition: Balancing Health, Trends and Sustainability”, delivered by dietitian Dr Hilal Doğan Güney. The training addressed balanced and sustainable dietary models, meal planning, contemporary dietary approaches and practical nutritional recommendations for daily life.

Source: New-Generation Approaches to Nutrition training, 2025



2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 2 through research focusing on food security, nutrition and sustainable agriculture. Of the University-affiliated publications associated with this goal, 16 are indexed in Web of Science and 10 in Scopus.

Smart Greenhouse Systems and Sustainable Agricultural Production

The smart greenhouse infrastructure established through the Feed the Future project remained in use in 2025. The greenhouses on Ağdacı Campus were examined on site, and the operation of automation and remote-control systems was explained. This practical setting, associated with the Organic Agriculture Programme, addressed continuity in agricultural production through greenhouse technologies capable of adapting to environmental conditions.

Source: Use of smart greenhouse systems, 23 August 2025



Student Projects on Food Waste and Access to Agricultural Information

Sedef Kahvecioğlu's TÜBİTAK 2209-A project, “Optimising Resource Use and Reducing Food Waste in University Dining Halls through Queuing Theory and Simulation”, was scheduled for 1 April 2025–31 March 2026. Uğur Emir Azı and Sude Bozkurt's project, “Digital Education and Certification Platform for Farmers: An AI-Supported Regional Agriculture Guide and Education Management System”, was scheduled for 1 April–30 December 2025. The studies focused on resource management in food services and digital methods for farmers' access to agricultural information.

Source: 2025 University Annual Activity Report, PDF page 335, projects 292 and 296

Dheya Aldain Alameri's TÜBİTAK 2209-A project, “Food Recycling Application”, within the Computer Technology and Information Systems Programme, was scheduled to run from 1 April 2025 to 1 April 2026. Projects in this area contribute to research on digital tools for reducing food waste and improving agricultural information services.

Source: 2025 University Annual Activity Report, PDF page 325, project 177

International Research Network for Climate-Resilient Seeds

In December 2025, Asst. Prof. Yusuf Ceylan from the Department of Molecular Biology and Genetics, Faculty of Science, was admitted to a working group of COST Action

CA24156 PrimSeedPower. The action aims to improve plants' resilience to climate-related stresses by developing innovative seed priming methods. This participation represented international research cooperation related to sustainable agriculture and food security.

Source: Participation in the PrimSeedPower research network, 24 December 2025



3 Social Initiatives and Institutional Practices

Access to Meal Services for Students and Staff

In 2025, the University provided subsidised four-course meals at TRY 45 for students. Meals were prepared in the central kitchen under a food engineer's supervision and distributed to service points on Ağdacı, Kutlubey, Ulus and Kurucaşile campuses. Gluten-free and other required dietary meals were prepared for students, including those with coeliac disease.

Source: SKS 2025 Annual Activity Report, page 20, catering services

2025 meal service indicator	Reported value
Meals provided to students	420,646 meals
Meals provided to University staff	33,267 meals
Total including guests and Provincial Directorate of Youth and Sports staff	460,382 meals

Source: SKS 2025 Annual Activity Report, page 13, Tables 8 and 9

Food Support during Examination Periods and Iftar Gatherings

In 2025, students preparing for examinations on Kutlubey and Ağdacı campuses were offered soup, döner and beverages. Provided during midterm and final examination

periods, this service supported students' nutritional needs during intensive study hours.

Source: Soup, döner and beverage provision during examinations, 9 January 2025





During Ramadan 2025, the University organised Traditional Iftar Gatherings in cooperation with businesses, civil society organisations and benefactors. Thousands of students attended the gatherings on Kutlubey and Ağdacı campuses. These shared meals supported student nutrition and a culture of sharing on campus.

Source: Traditional Iftar Gatherings and photographs, 29 March 2025





Biological Control to Protect Agricultural Products

On 17 June 2025, samurai wasps were released in several parts of Bartın as part of the Ministry of Agriculture and Forestry's efforts to combat the brown marmorated stink bug; a symbolic release also took place on Ağdacı Campus. Attended by University teaching staff, students and Provincial Directorate of Agriculture and Forestry personnel, the activity addressed biological control of an invasive species that damages agricultural products. The student project “Recognising the Brown Marmorated Stink Bug and Taking Precautions”, supervised by Prof. Azize Toper Kaygın, also included awareness activities in this field.

Source: Biological control activity on 17 June 2025, reported on 3 July



Food Solidarity for Individuals in Need

The “Table of Kindness”, “Sharing Our Table” and “Support in Soup Kitchens” projects were completed during the spring semester of 2024–2025. Covering 19 January–30 March, 5 April–13 June and 21 March–13 June 2025, respectively, the projects focused on food solidarity for individuals in need, people experiencing financial difficulties and older people.

Source: Completed spring semester social projects, 13 August 2025

Source: Spring semester 2024–2025 social project titles, target groups and dates

Good Health and Well-being

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook vocational education in health, scientific research, preventive health activities and campus health services. Training and screening activities delivered with health institutions, psychological support for students and staff, sports courses open to the local community and tobacco control regulations constituted the University's activities under SDG 3.

1 Education and Training Activities

Preparation for Health Professions and Digital Health Education

An oath-taking ceremony was held on 24 June 2025 for graduates of the Department of Nursing, Faculty of Health Sciences, in the 2024–2025 academic year. The Telehealth Technician Programme at the Vocational School of Health Services began admitting students in the 2025–2026 academic year. The new programme aims to train technicians in communication, data management and digital systems for remote healthcare services.

Source: Nursing graduates' oath-taking ceremony, 24 June 2025

Source: Telehealth Technician Programme, 2025–2026 student admissions information





Certified First Aid Training and Safe Clinical Practice

The First Aid Training and Trainer Training Centre organised a certified first aid course for students and staff on 3–4 May 2025. Following theoretical and practical training, participants who passed the Provincial Directorate of Health examinations qualified for a First Aider Certificate valid for three years.

Source: Certified first aid training, 3–4 May 2025





On 22 September 2025, 316 students from the Nursing and Midwifery departments attended professional preparation training delivered jointly by the Faculty of Health Sciences and the Bartın Provincial Directorate of Health. The programme addressed occupational health and safety, hospital-acquired infections, hand hygiene, personal protective equipment and waste management.

Source: Occupational health and safety training for 316 students, 22 September 2025



Extending Health Education to Students across Programmes

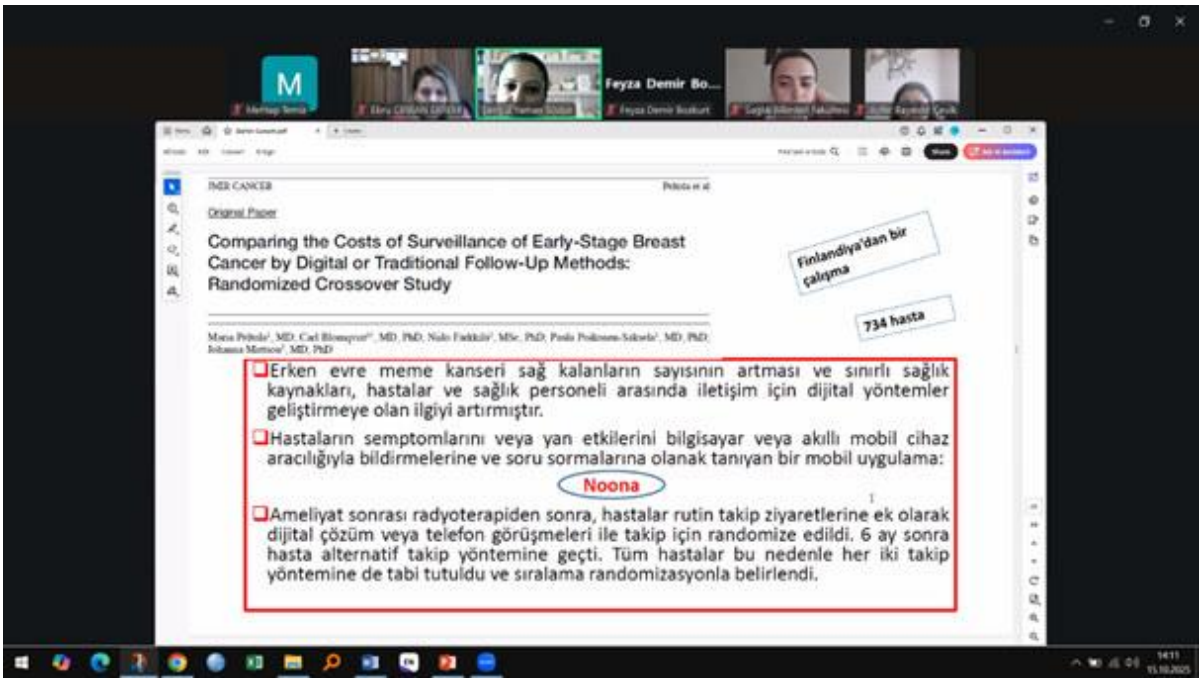
The list of electives open to students from other departments in autumn 2025 included Sexual Health, Family Planning, Breastfeeding Counselling, Sexual and Reproductive Health, and Combating Addiction. Opening these courses to other departments provided an educational opportunity to extend health knowledge to students in different programmes.

Source: Autumn 2025 electives open to other departments, PDF page 4

Education on Women's, Infant and Family Health

The webinar “Mobile Tools in the Fight against Breast Cancer”, held on 15 October 2025, examined the use of mobile applications in early detection awareness and patient follow-up.

Source: Breast cancer and mobile tools webinar, 15 October 2025



2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 3 through research focusing on health and quality of life. Of the University-affiliated publications associated with this goal, 220 are indexed in Web of Science and 77 in Scopus.

Engineering and International Cooperation in Reproductive Health

A project developed by Asst. Prof. Ferhat Sadak from the Faculty of Engineering, Architecture and Design with Prof. Sinan Haliyo of Sorbonne University received support under the TÜBİTAK 2509 Bosphorus programme in February 2025. The research aimed to examine the mechanical properties of biological cells and measure forces in three dimensions using optical microrobotics, deep learning and event cameras. The study sought to contribute to cell analysis methods with potential applications in reproductive health research.

Source: Reproductive health research with Sorbonne University, 20 February 2025



Biotechnology Research on Colorectal Cancer Cells

In July 2025, a project led by Research Assistant Sena Davran Bulut from the Faculty of Science was awarded TÜBİTAK 1002-A funding. Involving researchers from BARÜ and Çukurova University, the study planned to investigate the potential effects of synbiotic combinations of celery seed extract and apigenin with a probiotic bacterium on colorectal cancer cells.

Source: Project on colorectal cancer cells, 24 July 2025



Psychological Resilience of Families in Psychiatric Nursing

Research by Asst. Prof. Duygu Özer from the Department of Nursing examined acceptance and commitment therapy delivered to family members following a first episode of psychosis, with a focus on stigma, coping with stress and psychological resilience. The research received the first prize for an oral presentation at the 8th International and 12th National Psychiatric Nursing Congress held in 2025.

Source: Psychiatric nursing research and presentation award, 25 April 2025



3 Social Initiatives and Institutional Practices

Healthcare Services for Students, Staff and Dependants

In 2025, the Medico-Social Centre provided medical, dental, dietetic, psychological and nursing services to students, staff and staff dependants. Annual service use figures are presented in the table below.

Service	Total consultations / applications	Student records
Medical consultations	1,617	1,009
Dental consultations	731	386
Applications for psychological support	309	291

These figures represent service use records rather than the number of unique individuals.

Source: SKS 2025 Annual Activity Report, page 20, health services and Table 22

Source: SKS 2025 Annual Activity Report, page 21, Tables 23–24

Source: SKS 2025 Annual Activity Report, page 22, applications for psychological support, Table 25

Supporting the Mental Health of Students and Staff

In 2025, psychological support services received 291 applications from students, 3 from academic staff and 15 from staff dependants. Access to PDREM's psychological counselling services was provided through a confidential online application and appointment system. Services were introduced through orientation sessions and meetings with different student groups.

Source: SKS 2025 Annual Activity Report, page 22, applications for psychological support, Table 25

Source: PDREM 2025 Unit Internal Evaluation Report, PDF pages 12–13

As part of preventive mental health activities, PDREM and the Department of Visual Arts Education held the “Stay in the Moment and Clay” workshop on 21 April 2025. The activity combined the emotional dimensions of mindfulness, a walking exercise and clay design. On 12 May 2025, a joint book discussion organised by PDREM, the Department of Library and Documentation and student clubs explored attachment and emotional relationships through a literary text.

Source: “Stay in the Moment and Clay” workshop, 21 April 2025

Source: Bibliotherapy-based book discussion, 12 May 2025





The Mental Health Awareness project, led by Guidance and Psychological Counselling student Ecem Sezgin under the supervision of Asst. Prof. Neslihan Köse, received support from the European Solidarity Corps in 2025.

Source: ESC support for the Mental Health Awareness project, 7 February 2025



Sexual Health Information and Awareness

The “Sexual Myths” event, held in cooperation with PDREM on 26 December 2025, aimed to enable students to examine common misconceptions about sexuality in the light of scientific knowledge. Together with sexual health courses open to other departments, this activity supported students' access to information.

Source: “Sexual Myths” event on 26 December 2025, outcome report published on 6 January 2026



Community Health Screening, Information and Institutional Cooperation

On 3 October 2025, the Faculty of Health Sciences conducted heart health risk screening and education at Bartın State Hospital. Nine students took part in the activity, which included blood pressure and weight measurements and information

on the harms of tobacco, nutrition, physical activity, hypertension and diabetes management.

Source: Heart health screening at Bartın State Hospital, 3 October 2025



At an information stand organised with the Training Unit of Bartın Community Health Centre on Ağdacı Campus on 28 April 2025, cancer screening and the importance of early diagnosis were explained. Nurses and midwives from the centre informed students and staff about screening opportunities and distributed posters and brochures.

Source: Cancer awareness activity with the Community Health Centre, 28 April 2025



Public Information on Antibiotic Resistance

A Science Café gathering held in December 2025 addressed antibiotic resistance and responsible antibiotic use. Organised as a public science communication activity, the event shared scientific health information with participants from outside the University.

Source: Science Café on antibiotic resistance, 22 December 2025



First Aid in Schools and Voluntary Blood Donation

The First Aid Club's ÜNİDES-supported project, “Great Lives Entrusted to Little Heroes”, provided practical first aid training for children at Sarıderesi Primary School and Şehit Engin Demiroğlu Primary School. The project, which aimed to teach pupils how to respond in emergencies, concluded on 14 March 2025.

Source: First aid training in primary schools and project conclusion, March 2025





Computer Programming students also participated in a blood donation activity organised with the Turkish Red Crescent on 13 May 2025. Of 45 student volunteers, 14

donated blood. This example illustrates voluntary participation in community health activities across different academic units.

Source: Blood donation activity with the Turkish Red Crescent, 13 May 2025



Free and Regular Sports Opportunities for Local Children

Through the “BARÜ Lives through Sport” initiative, free basketball, volleyball and football courses were offered to children aged 5–12 from Bartın at Faculty of Sports Sciences facilities. The courses, which began in November 2025, involved 318 children: 110 in volleyball, 91 in basketball and 117 in football. Held on Saturdays and Sundays, they were planned to continue until June, excluding the semester break. The initiative provided regular access to University sports facilities for the local community.

Source: Launch of free sports courses involving 318 children, 24 November 2025



Institutional Regulation on Tobacco Control

The Directive on Combating Tobacco Products entered into force through Senate Decision No. 2025/14-03 of 1 October 2025. It regulated tobacco use prohibitions in enclosed spaces, sports and event areas, cafeteria gardens, outdoor areas within 15 metres of building entrances and University vehicles. It also established provisions on warning signs, education, inspection and sanctions, while allowing a limited number of designated outdoor tobacco use areas at least 15 metres from buildings.

Source: Directive on Combating Tobacco Products, 1 October 2025

Quality Education

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) provided learning opportunities for different age and occupational groups alongside teacher education, teaching development and educational research. Vocational training, children's workshops, open online educational resources and the policy on equal access to lifelong learning constituted the University's work under SDG 4.

1 Education and Training Activities

Teacher Education and Quality Assurance in Education

In 2025, the Division of Primary Education within the Faculty of Education graduated students who had commenced their undergraduate studies in 2021. The programme, which prepares primary school teachers, is a principal example of the University's contribution to providing qualified professionals for quality education at primary school level.

Source: Primary Education graduation ceremony and photographs, 2025



All Faculty of Education programmes with graduates have been accredited. Accreditation remains valid until 2028 for the Primary School Teaching, Social Studies Teaching and Elementary Mathematics Teaching programmes, and until 2027 for the

Science Teaching and Art Teaching programmes. Quality assurance activities in teacher education continued in 2025.

Source: Programme accreditation and Faculty of Education report, 21 April 2025



Developing the Teaching Skills of Academic Staff

The Learning and Teaching Development Coordination Office delivered its 2025/2 Training of Trainers Programme on 8–12 September 2025. The five-day programme addressed educational technologies, teaching methods, the psychology of learning, educational management, curriculum development, and measurement and assessment. It was conducted as institutional training to develop academic staff members' skills in course design and the evaluation of learning processes.

Source: Completion of the Training of Trainers Programme, 8–12 September 2025





Vocational Training for Participants from Outside the University

BÜNSEM's third cohort of basic expert witness training was held on 6–7 and 13–14 December 2025. Designed for participants employed in public institutions and organisations, the programme comprised 24 hours of training: 12 theoretical and 12

practical. It provided a lifelong learning opportunity to develop employees' professional competencies in relation to their fields of expertise.

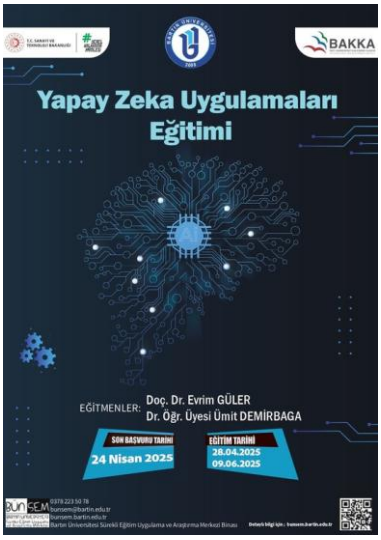
Source: Completion of the third cohort of basic expert witness training, December 2025



In 2025, free Artificial Intelligence Applications Training was organised with support from the Western Black Sea Development Agency (BAKKA), open to students and employees in the public and private sectors. The programme covered machine learning, deep learning, natural language processing, image processing and data analytics. Participants completed the programme by consolidating their knowledge through application development activities.

Source: Free artificial intelligence training and application eligibility, 14 April 2025

Source: Completion of Artificial Intelligence Applications Training, 11 November 2025





A Sustainability Approach in Early Childhood Education

Sustainability-themed early childhood education training was delivered jointly by BÜNSEM and the Preschool Education Application and Research Centre. Led by Dr Zerrin Mercan, the training addressed the integration of social, ecological and economic sustainability into early childhood education through theoretical knowledge and practical recommendations.

Source: Sustainability-themed early childhood education training, 5 May 2025



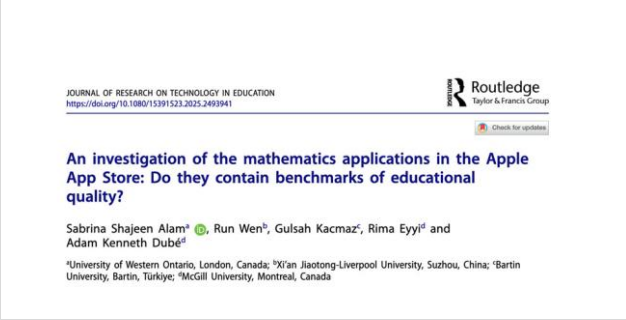
2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 4 through research focusing on education and learning processes. Of the University-affiliated publications associated with this goal, 45 are indexed in Web of Science and 22 in Scopus.

Educational Quality of Digital Games and Teacher Guidance

Two studies involving Dr Gülşah Kaçmaz from the Division of Guidance and Psychological Counselling examined the educational quality of digital games and teacher guidance. The study in the Journal of Research on Technology in Education addressed mobile games for mathematics teaching. The study in Computers & Education examined the relationship between teachers' guidance in game-based learning and their resources and prior experiences. Shared in 2025, the studies provided scientific knowledge on the selection of digital tools and the teacher's role in learning.

Source: Two educational studies by Gülşah Kaçmaz, 18 July 2025

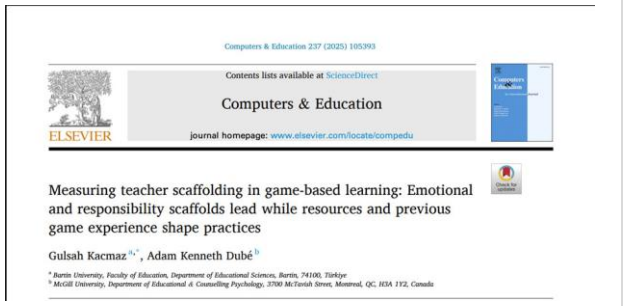

JOURNAL OF RESEARCH ON TECHNOLOGY IN EDUCATION
https://doi.org/10.1080/15391523.2025.2493941

Routledge
Taylor & Francis Group

An investigation of the mathematics applications in the Apple App Store: Do they contain benchmarks of educational quality?

Sabrina Shajeen Alam[a], Run Wen[b], Gulsah Kacmaz[c], Rima Eyyi[d] and Adam Kenneth Dubé[d]

[a]University of Western Ontario, London, Canada; [b]Xi'an Jiaotong-Liverpool University, Suzhou, China; [c]Bartin University, Bartin, Türkiye; [d]McGill University, Montreal, Canada


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journal homepage: www.elsevier.com/locate/compedu

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Measuring teacher scaffolding in game-based learning: Emotional and responsibility scaffolds lead while resources and previous game experience shape practices

Gulsah Kacmaz[a,*], Adam Kenneth Dubé[b]

[a] Bartin University, Faculty of Education, Department of Educational Sciences, Bartin, 74100, Türkiye
[b] McGill University, Department of Educational & Counselling Psychology, 3700 McTavish Street, Montreal, QC, H3A 1Y2, Canada

Research on Learning Difficulties among Primary School Pupils

Research led by Prof. Fatma Gizem Karaoğlan Yılmaz with TÜBİTAK 2247-A support continued in 2025, aiming to examine risks associated with learning difficulties among primary school pupils using eye tracking and machine learning. The project sought to develop a system capable of producing individual risk reports for pupils. The study focused on supporting research into the identification of individual educational needs through technology-based methods.

Source: Ongoing research on learning difficulties, 22 October 2025

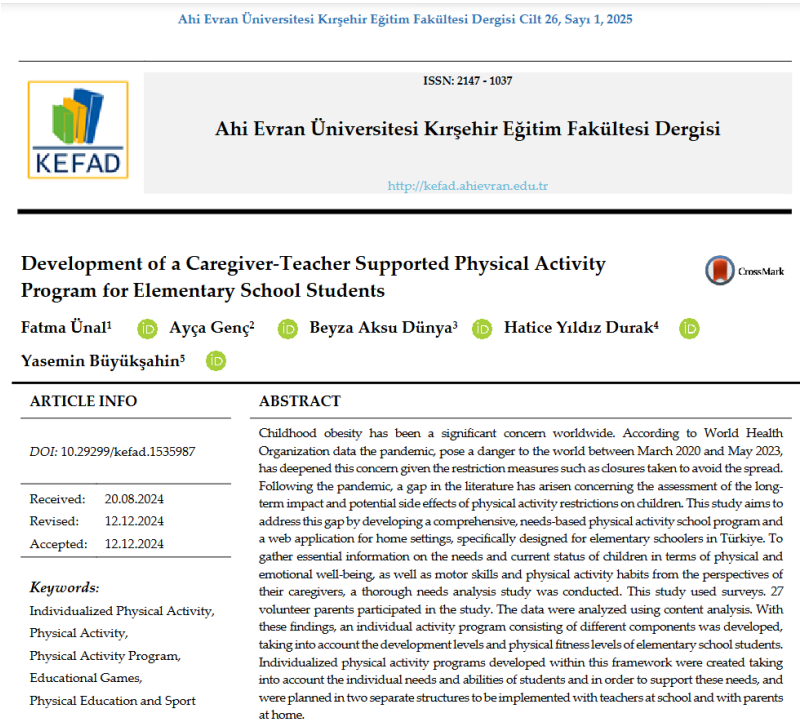




A Parent- and Teacher-Supported Learning Programme for Primary School Pupils

A study published in 2025 by a research team including Fatma Ünal, Ayça Genç, Beyza Aksu Dünya and Yasemin Büyükşahin developed an individualised physical activity programme for primary school pupils supported by parents and teachers. Children's needs were assessed using data from 27 parents. Activities suitable for teacher-supported implementation at school and parent-supported implementation at home were structured with reference to pupils' developmental characteristics and individual differences. The research contributed to the development of educational programmes based on school–family cooperation.

Source: https://doi.org/10.29299/kefad.1535987



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Ahi Evran Üniversitesi Kırşehir Eğitim Fakültesi Dergisi

http://kefad.ahievran.edu.tr

Development of a Caregiver-Teacher Supported Physical Activity Program for Elementary School Students

Fatma Ünal[1] Ayça Genç[2] Beyza Aksu Dünya[3] Hatice Yıldız Durak[4] Yasemin Büyükşahin[5]

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Physical Activity,
Physical Activity Program,
Educational Games,
Physical Education and Sport

ABSTRACT

Childhood obesity has been a significant concern worldwide. According to World Health Organization data the pandemic, pose a danger to the world between March 2020 and May 2023, has deepened this concern given the restriction measures such as closures taken to avoid the spread. Following the pandemic, a gap in the literature has arisen concerning the assessment of the long-term impact and potential side effects of physical activity restrictions on children. This study aims to address this gap by developing a comprehensive, needs-based physical activity school program and a web application for home settings, specifically designed for elementary schoolers in Türkiye. To gather essential information on the needs and current status of children in terms of physical and emotional well-being, as well as motor skills and physical activity habits from the perspectives of their caregivers, a thorough needs analysis study was conducted. This study used surveys. 27 volunteer parents participated in the study. The data were analyzed using content analysis. With these findings, an individual activity program consisting of different components was developed, taking into account the development levels and physical fitness levels of elementary school students. Individualized physical activity programs developed within this framework were created taking into account the individual needs and abilities of students and in order to support these needs, and were planned in two separate structures to be implemented with teachers at school and with parents at home.

3 Social Initiatives and Institutional Practices

Policy on Equal Access to Lifelong Learning

BARÜ's Lifelong Learning Access Policy commits to providing access to learning activities for everyone, regardless of ethnicity, religion, disability, refugee status or gender. The policy encompasses face-to-face, online and hybrid learning opportunities for different sections of society, support for disadvantaged groups through social and academic activities, and the promotion of professional development.

Source: Lifelong Learning Access Policy, full text

Open Online Educational Resources

The Learning and Teaching Development Coordination Office published a guide introducing digital tools for teachers on 16 January 2025 and material on effective question and prompt design in education on 2 March 2025. Accessible on the University's public webpages without registration, these resources provided examples of lesson planning, assessment and applications across disciplines. They offered free online access to resources for educators and learners who were not enrolled at the University.

Source: Public digital tools guide for teachers, 16 January 2025

Source: Open educational material on question and prompt design, 2 March 2025



In 2025, the Lifelong Learning Application and Research Centre shared an open-access link to the full text of “Lifelong Learning: Yesterday, Today and Tomorrow”, edited by Prof. Hüseyin Kaygın and published in December 2024. This initiative supported the dissemination of scholarly knowledge on lifelong learning to the public and free access to relevant information resources.

Source: Lifelong learning book and full-text link, 18 February 2025



Science, Art and Learning Activities for Children

BÜNSEM's science and art workshops were held on 1–2 September 2025 for children aged 9–12. Scientific experiments and artistic activities were combined around the theme of force and motion. The workshops provided out-of-school learning opportunities through which children could engage with the University's educational facilities.

Source: Children's science and art workshops, 1–2 September 2025; report and photographs





The 11th “My Teacher” Festival, held in 2025, also brought preschool, primary and secondary school pupils together on the University campus. Participatory learning environments were created through scientific experiments, mathematics, music, art and clay activities. The gathering around the Faculty of Education enabled interaction between prospective teachers and pupils from local schools.

Source: “My Teacher” Festival report and photographs, 13 May 2025





Gender Equality

Reporting period 1 January – 31 December 2025

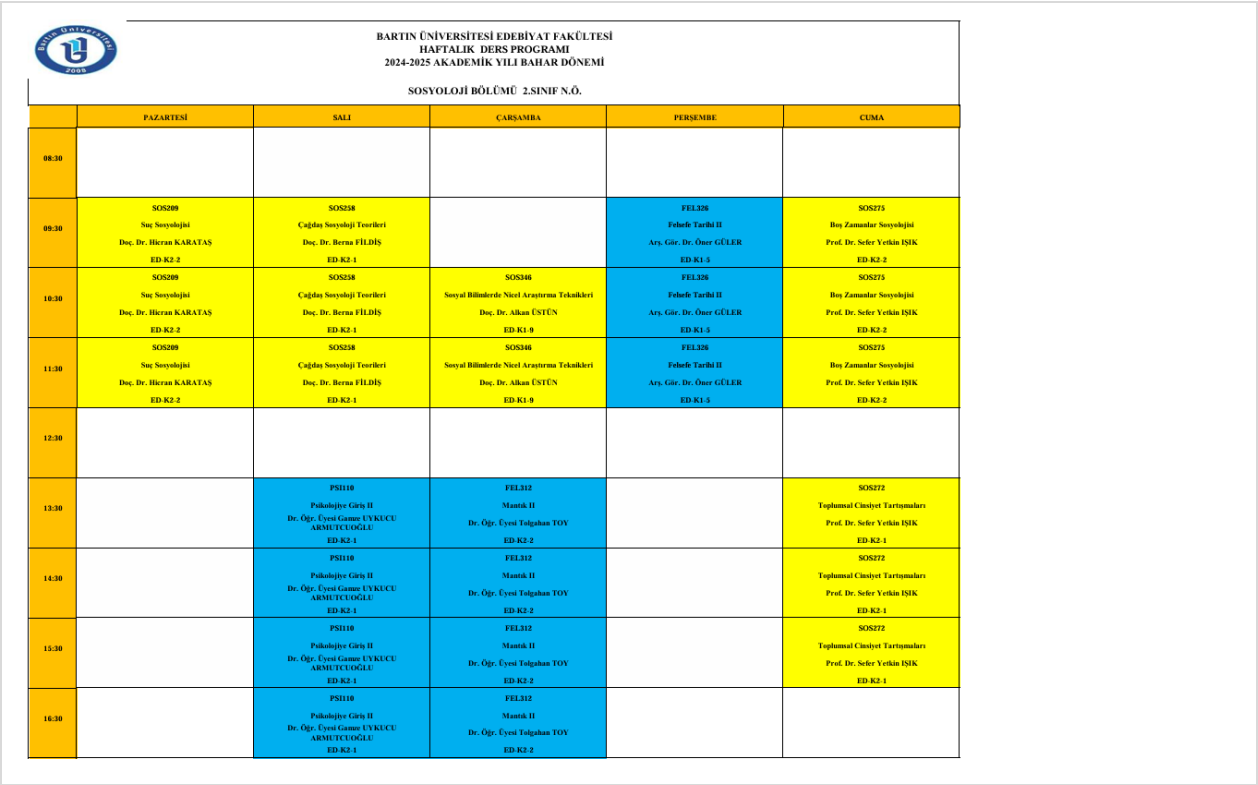
In 2025, Bartın University (BARÜ) addressed equal opportunities for women and men through education, research and institutional support. Activities included training on combating violence against women, work on women's empowerment, academic career and parenting support, and cooperation with local institutions. The 2023–2026 Equal Opportunities for Women and Men Plan provided the institutional framework for this work.

1 Education and Training Activities

Integrating Gender Issues into Teaching

During the spring semester of the 2024–2025 academic year, the Department of Sociology offered SOS272 Discussions on Gender to second-year students. Taught by Prof. Sefer Yetkin Işık, the course addressed gender as part of regular teaching activities and supported students in developing their knowledge in this field.

Source: Spring semester 2025 Sociology course timetable, PDF page 2



BARTIN ÜNİVERSİTESİ EDEBİYAT FAKÜLTESİ
HAFTALIK DERS PROGRAMI
2024-2025 AKADEMİK YILI BAHAR DÖNEMİ

SOSYOLOJİ BÖLÜMÜ 2.SINIF N.Ö.

	PAZARTESİ	SALI	ÇARŞAMBA	PERŞEMBE	CUMA
08:30					
09:30	SOS209 Suç Sosyolojisi Doç. Dr. Hicran KARATAŞ ED-K2-2	SOS258 Çağdaş Sosyoloji Teorileri Doç. Dr. Berna FİLDİŞ ED-K2-1		FEL326 Felsefe Tarihi II Arş. Gör. Dr. Öner GÜLER ED-K1-5	SOS275 Boş Zamanlar Sosyolojisi Prof. Dr. Sefer Yetkin IŞIK ED-K2-2
10:30	SOS209 Suç Sosyolojisi Doç. Dr. Hicran KARATAŞ ED-K2-2	SOS258 Çağdaş Sosyoloji Teorileri Doç. Dr. Berna FİLDİŞ ED-K2-1	SOS346 Sosyal Bilimlerde Nicel Araştırma Teknikleri Doç. Dr. Alkan ÜSTÜN ED-K1-9	FEL326 Felsefe Tarihi II Arş. Gör. Dr. Öner GÜLER ED-K1-5	SOS275 Boş Zamanlar Sosyolojisi Prof. Dr. Sefer Yetkin IŞIK ED-K2-2
11:30	SOS209 Suç Sosyolojisi Doç. Dr. Hicran KARATAŞ ED-K2-2	SOS258 Çağdaş Sosyoloji Teorileri Doç. Dr. Berna FİLDİŞ ED-K2-1	SOS346 Sosyal Bilimlerde Nicel Araştırma Teknikleri Doç. Dr. Alkan ÜSTÜN ED-K1-9	FEL326 Felsefe Tarihi II Arş. Gör. Dr. Öner GÜLER ED-K1-5	SOS275 Boş Zamanlar Sosyolojisi Prof. Dr. Sefer Yetkin IŞIK ED-K2-2
12:30					
13:30		PSI110 Psikolojiye Giriş II Dr. Öğr. Üyesi Gamze UYKUCU ARMUTCUOĞLU ED-K2-1	FEL312 Mantık II Dr. Öğr. Üyesi Tolgahan TOY ED-K2-2		SOS272 Toplumsal Cinsiyet Tartışmaları Prof. Dr. Sefer Yetkin IŞIK ED-K2-1
14:30		PSI110 Psikolojiye Giriş II Dr. Öğr. Üyesi Gamze UYKUCU ARMUTCUOĞLU ED-K2-1	FEL312 Mantık II Dr. Öğr. Üyesi Tolgahan TOY ED-K2-2		SOS272 Toplumsal Cinsiyet Tartışmaları Prof. Dr. Sefer Yetkin IŞIK ED-K2-1
15:30		PSI110 Psikolojiye Giriş II Dr. Öğr. Üyesi Gamze UYKUCU ARMUTCUOĞLU ED-K2-1	FEL312 Mantık II Dr. Öğr. Üyesi Tolgahan TOY ED-K2-2		SOS272 Toplumsal Cinsiyet Tartışmaları Prof. Dr. Sefer Yetkin IŞIK ED-K2-1
16:30		PSI110 Psikolojiye Giriş II Dr. Öğr. Üyesi Gamze UYKUCU ARMUTCUOĞLU ED-K2-1	FEL312 Mantık II Dr. Öğr. Üyesi Tolgahan TOY ED-K2-2		

Student Training on Combating Violence and Accessing Support

The Women and Family Studies Application and Research Centre and the Violence Prevention and Monitoring Centre (ŞÖNİM) delivered student training on 7 March 2025. The programme explained the provisions of Law No. 6284 and services offered by ŞÖNİM. The face-to-face training aimed to inform students about combating violence and accessing support mechanisms.

Source: Student training on combating violence and photographs, 7 March 2025





Dating Violence Awareness Activity for the Day for the Elimination of Violence against Women

A dating violence programme held on 26 November 2025 addressed physical, emotional, economic and digital forms of violence. In her lecture, Ayla Ünal from ŞÖNİM explained legal reporting and protection pathways. Assoc. Prof. Özlem Şener's workshop explored healthy relationships, personal boundaries and mutual respect. The programme aimed to inform students and staff about recognising violence and developing healthy relationships.

Source: Dating violence lecture and healthy boundaries workshop, 26 November 2025





Supporting Professionals Working with Women

On 5 May 2025, the Women and Family Studies Application and Research Centre organised training and a workshop for ŞÖNİM staff. Led by Assoc. Prof. Zeynep Turhan, the programme addressed safety planning for women subjected to violence, support for personal agency and psychoeducational methods. During the workshop, participants evaluated their professional approaches through group work on case scenarios.

Source: Training and workshop for ŞÖNİM staff, 5 May 2025





Group Work on Women's Strengths

Assoc. Prof. Zeynep Turhan and Asst. Prof. Nur Başer Baykal led a group activity on 7 March 2025 to mark International Women's Day on 8 March. Supported by the Faculty of Health Sciences, the Communication Coordination Office and ŞÖNİM, the event enabled participants to reflect on their strengths in personal, professional and academic life and to share experiences of self-compassion and coping with difficulties.

Source: Empowerment and self-awareness group activity, 7 March 2025



2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 5 through research focusing on gender equality. Of the University-affiliated publications associated with this goal, 26 are indexed in Web of Science and 15 in Scopus.

Women's Cooperatives and Economic Empowerment

Research by Asst. Prof. Hikmet Batuhan Günşen and Ezgi Kanca, published in the Journal of Bartın Faculty of Forestry in 2025, used face-to-face questionnaires with 30 members of the Devrek Güneşi Cooperative. The study examined rural women's cooperative experiences, participation in management and expectations. A culture of working together, self-confidence and economic independence were prominent findings. The research provided a scholarly contribution to understanding women's roles in production and decision-making.

Source: https://doi.org/10.24011/barofd.1765649

Bartın Orman Fakültesi Dergisi | Journal of Bartin Faculty of Forestry
2025, 27(3): 404 – 420 | DOI: 10.24011/barofd.1765649

Orman Köylerindeki Kadın Kooperatifi Ortaklarının Kooperatifçiliğe Bakışları ve Beklentileri: Devrek Güneşi Kooperatifi Örneği

Hikmet Batuhan Günşen[1,*], Ezgi Kanca[2]

[1,2] Bartın Üniversitesi, Orman Fakültesi, Orman Mühendisliği Bölümü, Bartın, Türkiye

Makale Tarihçesi
Gönderim: 16.08.2025
Kabul: 03.11.2025
Yayım: 15.12.2025

Araştırma Makalesi

Öz – Kooperatifler orman köyleri gibi kırsal yerleşimlerde sosyal ve ekonomik hayatta pek görünür olmayan kadınların istihdam edilmesinde ve söz sahibi olmalarında önemli bir yere sahiptir. Demokratik ve katılımcı yapılarından dolayı kooperatifler, Sürdürülebilir Kalkınma Amaçlarına ulaşmada da etkin bir araç olarak görülmektedir. Özellikle kadın kooperatiflerinin ülke kalkınmasındaki önemine kalkınma planlarında da değinilmekte ve bu çerçevede kooperatifçiliğin desteklenmesine gayret gösterilmektedir. Kırsal alanlarda faaliyet gösteren kooperatiflerin cinsiyet eşitsizliğiyle ilgili kronikleşen sorunları, 2000'li yılların başında kırsaldaki kadınların da kendi aralarında örgütlenip kadın kooperatiflerini kurmalarına vesile olmuştur. Günümüzde kırsalda katma değer yaratan, toplumsal cinsiyet eşitliği ve eşitsizliğin azaltılması gibi sürdürülebilir kalkınma amaçlarına ulaşmada önemli adımlar atan kadın kooperatiflerinin sayısı her geçen gün artmaktadır. Bu gelişmelere karşın kırsaldaki kadın kooperatiflerinin ortak yapılarını inceleyen araştırma sayısı çok azdır. Bu araştırmanın amacı, kadın kooperatifi örgütlenmesinde, üretimde, bölgesel odun dışı orman ürünlerinden katma değer yaratmada başarılı olarak görülen, dolayısıyla kırsal kalkınmaya da büyük katkıları olan, Devrek Güneşi Kooperatifi (Devrek/Zonguldak) ortaklarının kooperatifçiliğe bakış açılarının ve kooperatiflerinden olan beklentilerinin belirlenmesidir. Bunları tespit edebilmek için ortaklara yönelik 42 sorudan oluşan bir anket formu oluşturulmuştur. Bu anketler 30 kooperatif ortağına yüz yüze görüşme yöntemiyle uygulanmıştır. Anket sorularına verilen cevapların Microsoft Excel programıyla frekans ve yüzde dağılımları belirlenerek nitel veri analizi ile yorumlanmıştır. Devrek Güneşi Kooperatifi ortakları kooperatifçiliğinin anlamını bilmekte ve bu doğrultuda da çalışmakta, üretmektedirler. Ortakların arasında çok az bir fikir ayrılığı olmasına rağmen birlikte çalışma kültürünü benimsemişlerdir. Bunun nedeni kooperatifte şeffaf, hesap verilebilir ve samimi bir yönetim anlayışının işlemesidir. Orman köylerindeki kadınlar kooperatif ortağı olmalarıyla birlikte, özgüvenlerini ve ekonomik özgürlüklerini kazanmış, aynı zamanda eğitim seviyelerini de yükseltme imkânı bulmuşlardır. Elde edilen bulgular, kırsal kesimde yeni kurulacak ya da bir türlü başarıyı yakalayamayan kadın kooperatiflerine yol gösterici olacaktır.

Anahtar Kelimeler *– Kadın kooperatifleri, orman köylüsü, cinsiyet eşitliği, eşitsizliğin azaltılması, kırsal kalkınma*

Nursing Students' Gender Perceptions

A cross-sectional study by Asst. Prof. Ebru Cirban Ekrem and Burcu Küçükkaya, published in TOGÜ Sağlık Bilimleri Dergisi in 2025, examined the gender perceptions and attitudes towards non-marital sexual intimacy of 353 nursing students. It assessed associations between perceptions and attitudes and variables including gender, year of study and family educational background. The study contributed to research on gender among students in health-related fields.

Source: https://doi.org/10.52369/togusagbilderg.1472432

TOGÜ SAĞLIK BİLİMLERİ DERGİSİ
Journal of TOGU Health Sciences
ISSN:*2791-8653*
Ay-Yıl/Cilt/Sayı: Ocak-2025/5/1

Araştırma Makalesi/ Original Article

Hemşirelik Öğrencilerinin Toplumsal Cinsiyet Algısı ile Evlilik Dışı Cinsel Yakınlığa Yönelik Tutumlarının Belirlenmesi: Kesitsel Çalışma

Determination of Nursing Students' Gender Perception and Attitudes Towards Extramarital Sexual Intimacy: Cross-Sectional Study

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[1] Öğr. Gör., Bartın Üniversitesi, Sağlık Bilimleri Fakültesi, Bartın, 0000-0003-4442-0675,
[2] Dr. Öğr. Üyesi, Bartın Üniversitesi, Sağlık Bilimleri Fakültesi, Bartın, 0000-0002-3421-9794

ÖZET
Amaç: Bu çalışmada, hemşirelik bölümü öğrencilerinin toplumsal cinsiyet algısı ile evlilik dışı cinsel yatkınlığa yönelik tutumunun incelenmesi amaçlanmıştır.
Metot: Kesitsel tipte olan araştırmanın evrenini Ekim 2023-Mart 2024 tarihleri arasında Bartın Üniversitesi'nin Sağlık Bilimleri Fakültesi Hemşirelik Bölümü'nde eğitim gören 431 öğrenci oluşturmuştur. Araştırma 353 öğrenci ile tamamlanmıştır. Araştırmanın verileri Tanıtıcı Bilgi Formu, Toplumsal Cinsiyet Algısı Ölçeği (TCAÖ) ve Evlilik Dışı Cinsel Yatkınlığa Yönelik Tutum Ölçeği'ni (EDCYYTÖ) içeren bir veri toplama formu ile toplanmıştır.

ABSTRACT
Purpose: This study aimed to examine the gender perception and attitudes of nursing students towards extramarital sexual orientation.
Method: The population of the cross-sectional study consisted of 431 students studying at …. University, Faculty of Health Sciences, Department of Nursing between October 2023 and March 2024. The research was completed with 353 students. The data of the research were collected with a data collection form including the Introductory Information Form, Gender Perception Scale (GPS) and Attitudes Towards Sexual Predisposition Outside of Marriage Scale (ATSPOMS).

Student Research on Gender and Dating Violence

Psychology student Gamze Yüksekol's TÜBİTAK 2209-A research began on 8 April 2025. Continuing into 2026, the project aimed to examine the roles of empathy and compassion in the relationship between young adults' gender perceptions and attitudes towards dating violence. The project supports undergraduate participation in research on gender and violence-related attitudes.

Source: 2025 University Annual Activity Report, PDF page 330, student research



2025 Yılı İdare Faaliyet Raporu

		Oyunların Kullanıcı Motivasyonu Ve Katılımına Etkisi							
224	1919B012403827	Doğada Sürdürülebilir Kütüphane Etkinlikleri	2209 A	BİLGİ VE BELGE YÖNETİMİ PR.	Öğrenci	Zehra Yılmaz	9.000,00	9.04.2025	9.04.2026
225	1919B012404777	Eski Anadolu Türkçesinden Türkiye Türkçesine Eklerin Ölüm Ve Doğumunun Kronolojik Sunumu Ve Analizi	2209 A	ÇAĞDAŞ TÜRK LEHÇELERİ VE EDEBİYATLARI PR.	Öğrenci	Çağla BAÇ	2000 TL	8.04.2025	8.04.2026
226	1919B012466483	Türklerde Tabiat Üstü Varlıklar Ve Bunlarla İlgili Kabullenmeler Ve İnanmalar	2209 A	ÇAĞDAŞ TÜRK LEHÇELERİ VE EDEBİYATLARI PR.	Öğrenci	Sümeyye KILINÇ	7000 TL	01.05.2025	06.10.2025
227	1919B012468499	Başlangıç Rusça Öğreniminde Seslendirmedeki Uygulamalar Üzerine	2209 A	İNGİLİZCE MÜTERCİM VE TERCÜMANLIK PR.	Öğrenci	Kadir Yalçın	9000 TL	8.04.2025	8.04.2026
228	1919B012426540	Beliren Yetişkinlik Döneminde Toplumsal Cinsiyet Algıları Ve Flört Şiddeti Tutumlarının İlişkisinde Empati Ve Merhametin Aracı Rolü	2209 A	PSİKOLOJİ PR.	Öğrenci	Gamze YÜKSEKOL	5.000 TL	8.04.2025	8.04.2026
229	1919B012467659	Otizmli Çocuğa Sahip Ebeveynlerin Psikososyal İhtiyaçları, Stres Ve Destek Kaynakları: Kırsal Ve Kentsel Farklılıkların İncelenmesi	2209 A	PSİKOLOJİ PR.	Öğrenci	İrade Salğın	9000 TL	1.04.2025	1.03.2026
230	1919B012428473	Romantik İlişkilerde Ayrılık Kaygısı İle Obsesif Kompulsif Belirtiler Arasındaki İlişkide Kendini Açma Davranışının Düzenleyici Rolü	2209 A	PSİKOLOJİ PR.	Öğrenci	Rümeysa Işık	5.500,00	8.04.2025	8.04.2026
231	1919B012475392	Lgbt+ Bireylere Karşı Nefrete Yönelik Tutumda Kendini Kabulün Etkisi Ve Aile İçi İletişimin Aracı Rolü	2209 A	PSİKOLOJİ PR.	Öğrenci	Tuğba Hatun Özdemir	9.000.00	8.04.2025	8.04.2026
232	1919B012416238	Üniversite Öğrencisi (Çalışmayan) Ve (Kısmi Zamanlı Çalışan) Bireyler Arasında Nomofobi Ve Depresyon Arasında Yaşam Doyum Ve Uykuyu Geciktirme Davranışının Aracı Rolü	2209 A	PSİKOLOJİ PR.	Öğrenci	Zehra ERBEK	8.750 TL	1.04.2025	1.04.2026
233	1919B012412802	Akondroplazili/Cüceliği Olan Bireylerin Damgalanma, Ayrımcılık Ve Sosyal Dışlanma	2209 A	SOSYOLOJİ PR.	Öğrenci	Gamze BOZDAĞ	9.000 TL	8.04.2025	8.12.2025

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3 Social Initiatives and Institutional Practices

Institutional Framework and Monitoring for Equal Opportunities

The 2023–2026 Equal Opportunities for Women and Men Plan established an institutional framework covering work–family balance, representation in leadership, career development, research and teaching, and the prevention of violence. Data collection, monitoring and reporting mechanisms were operated in line with the plan in 2025 to track and evaluate implementation.

Source: Equal Opportunities for Women and Men Plan 2023–2026, full text

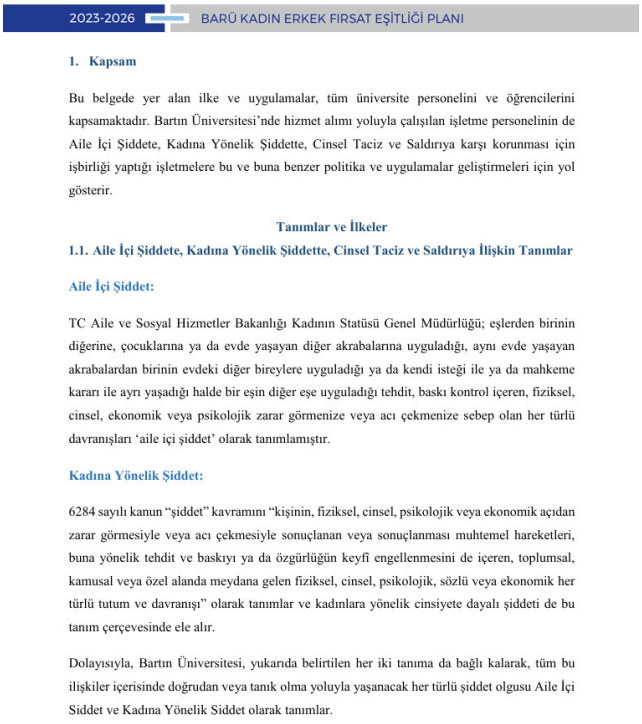
Source: 2025 Institutional Internal Evaluation Report, PDF page 63, support for female students and academic careers



Principles for Protection against Violence and Harassment

The institutional document annexed to the plan covers all students and staff. Its definition of sexual harassment includes discriminatory conduct based on sexual orientation and gender identity. Creating difficulties in education or employment as a result of a complaint is addressed as retaliation. Confidentiality, voluntariness and the activation of support mechanisms are established as principles for handling applications.

Source: Equal Opportunities Plan, PDF pages 39–43, scope, harassment and reporting principles


2023-2026 BARÜ KADIN ERKEK FIRSAT EŞİTLİĞİ PLANI

1. Kapsam

Bu belgede yer alan ilke ve uygulamalar, tüm üniversite personelini ve öğrencilerini kapsamaktadır. Bartın Üniversitesi'nde hizmet alımı yoluyla çalışılan işletme personelinin de Aile İçi Şiddete, Kadına Yönelik Şiddette, Cinsel Taciz ve Saldırıya karşı korunması için işbirliği yaptığı işletmelere bu ve buna benzer politika ve uygulamalar geliştirmeleri için yol gösterir.

Tanımlar ve İlkeler

1.1. Aile İçi Şiddete, Kadına Yönelik Şiddette, Cinsel Taciz ve Saldırıya İlişkin Tanımlar

Aile İçi Şiddet:

TC Aile ve Sosyal Hizmetler Bakanlığı Kadının Statüsü Genel Müdürlüğü; eşlerden birinin diğerine, çocuklarına ya da evde yaşayan diğer akrabalarına uyguladığı, aynı evde yaşayan akrabalardan birinin evdeki diğer bireylere uyguladığı ya da kendi isteği ile ya da mahkeme kararı ile ayrı yaşadığı halde bir eşin diğer eşe uyguladığı tehdit, baskı kontrol içeren, fiziksel, cinsel, ekonomik veya psikolojik zarar görmenize veya acı çekmenize sebep olan her türlü davranışları 'aile içi şiddet' olarak tanımlamıştır.

Kadına Yönelik Şiddet:

6284 sayılı kanun "şiddet" kavramını "kişinin, fiziksel, cinsel, psikolojik veya ekonomik açıdan zarar görmesiyle veya acı çekmesiyle sonuçlanan veya sonuçlanması muhtemel hareketleri, buna yönelik tehdit ve baskıyı ya da özgürlüğün keyfi engellenmesini de içeren, toplumsal, kamusal veya özel alanda meydana gelen fiziksel, cinsel, psikolojik, sözlü veya ekonomik her türlü tutum ve davranışı" olarak tanımlar ve kadınlara yönelik cinsiyete dayalı şiddeti de bu tanım çerçevesinde ele alır.

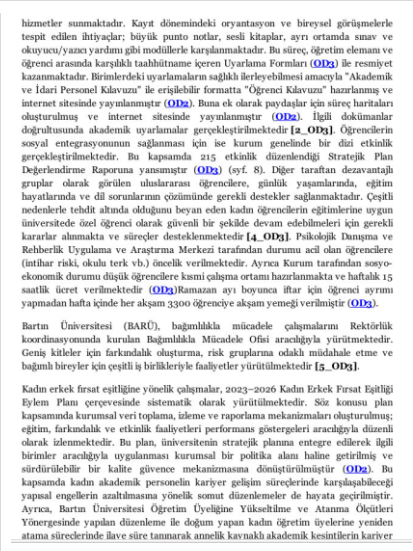
Dolayısıyla, Bartın Üniversitesi, yukarıda belirtilen her iki tanıma da bağlı kalarak, tüm bu ilişkiler içerisinde doğrudan veya tanık olma yoluyla yaşanacak her türlü şiddet olgusu Aile İçi Siddet ve Kadına Yönelik Siddet olarak tanımlar.

Educational Support for Female Students Facing Safety Risks

In 2025, decision-making and procedural support was provided to enable female students who declared that they were under threat to continue their studies safely at a suitable university with special student status. The practice supported the protection of educational opportunities and continuity in higher education for female students facing safety concerns.

Source: 2025 Institutional Internal Evaluation Report, PDF page 63, support for female students and academic careers





hizmetler sunmaktadır. Kayıt dönemindeki oryantasyon ve bireysel görüşmelerle tespit edilen ihtiyaçlar; büyük punto notlar, sesli kitaplar, ayrı ortamda sınav ve okuyucu/yazıcı yardımı gibi modüllerle karşılanmaktadır. Bu süreç, öğretim elemanı ve öğrenci arasında karşılıklı taahhütname içeren Uyarlama Formları (OD2) ile resmiyet kazanmaktadır. Birimlerdeki uyarlamaların sağlıklı ilerleyebilmesi amacıyla "Akademik ve İdari Personel Kılavuzu" ile erişilebilir formatta "Öğrenci Kılavuzu" hazırlanmış ve internet sitesinde yayınlanmıştır (OD2). Buna ek olarak paydaşlar için süreç haritaları oluşturulmuş ve internet sitesinde yayınlanmıştır (OD2). İlgili dokümanlar doğrultusunda akademik uyarlamalar gerçekleştirilmektedir **[2_OD3]**. Öğrencilerin sosyal entegrasyonunun sağlanması için ise kurum genelinde bir dizi etkinlik gerçekleştirilmektedir. Bu kapsamda 215 etkinlik düzenlendiği Stratejik Plan Değerlendirme Raporuna yansımıştır (OD2) (syf. 8). Diğer taraftan dezavantajlı gruplar olarak görülen uluslararası öğrencilere, günlük yaşamlarında, eğitim hayatlarında ve dil sorunlarının çözümünde gerekli destekler sağlanmaktadır. Çeşitli nedenlerle tehdit altında olduğunu beyan eden kadın öğrencilerin eğitimlerine uygun üniversitede özel öğrenci olarak güvenli bir şekilde devam edebilmeleri için gerekli kararlar alınmakta ve süreçler desteklenmektedir **[4_OD3]**. Psikolojik Danışma ve Rehberlik Uygulama ve Araştırma Merkezi tarafından durumu acil olan öğrencilere (intihar riski, okulu terk vb.) öncelik verilmektedir. Ayrıca Kurum tarafından sosyo-ekonomik durumu düşük öğrencilere kısmi çalışma ortamı hazırlanmakta ve haftalık 15 saatlik ücret verilmektedir (OD2)Ramazan ayı boyunca iftar için öğrenci ayrımı yapmadan hafta içinde her akşam 3300 öğrenciye akşam yemeği verilmiştir (OD2).

Bartın Üniversitesi (BARÜ), bağımlılıkla mücadele çalışmalarını Rektörlük koordinasyonunda kurulan Bağımlılıkla Mücadele Ofisi aracılığıyla yürütmektedir. Geniş kitleler için farkındalık oluşturma, risk gruplarına odaklı müdahale etme ve bağımlı bireyler için çeşitli iş birlikleriyle faaliyetler yürütülmektedir **[5_OD3]**.

Kadın erkek fırsat eşitliğine yönelik çalışmalar, 2023–2026 Kadın Erkek Fırsat Eşitliği Eylem Planı çerçevesinde sistematik olarak yürütülmektedir. Söz konusu plan kapsamında kurumsal veri toplama, izleme ve raporlama mekanizmaları oluşturulmuş; eğitim, farkındalık ve etkinlik faaliyetleri performans göstergeleri aracılığıyla düzenli olarak izlenmektedir. Bu plan, üniversitenin stratejik planına entegre edilerek ilgili birimler aracılığıyla uygulanması kurumsal bir politika alanı haline getirilmiş ve sürdürülebilir bir kalite güvence mekanizmasına dönüştürülmüştür (OD2). Bu kapsamda kadın akademik personelin kariyer gelişim süreçlerinde karşılaşabileceği yapısal engellerin azaltılmasına yönelik somut düzenlemeler de hayata geçirilmiştir. Ayrıca, Bartın Üniversitesi Öğretim Üyeliğine Yükseltilme ve Atanma Ölçütleri Yönergesinde yapılan düzenleme ile doğum yapan kadın öğretim üyelerine yeniden atama sürecinde ilave süre tanınarak annelik kaynaklı akademik kesintilerin kariyer

Supporting Motherhood and Academic Careers

Under the Equal Opportunities for Women and Men Plan, female faculty members who gave birth during their reappointment period were offered an additional year. The measure aimed to reduce the effects of maternity-related interruptions on reappointment processes and support female faculty members in continuing their academic careers.

Source: Equal Opportunities Plan, PDF page 14, maternity provision in reappointment

Source: 2025 Institutional Internal Evaluation Report, PDF page 63, support for female students and academic careers

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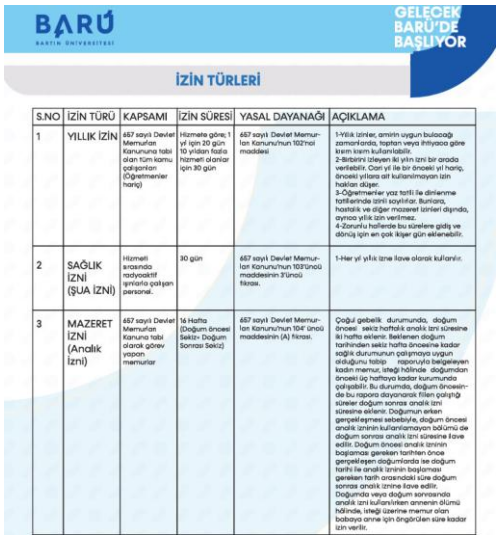
Dezavantajlı gruplara yönelik izlemlerden biri Stratejik Plan Değerlendirme Raporlarıdır. Bu rapora göre (**OD4**) (syf. 8) dezavantajlı grupların sosyal

Staff Orientation Training

Bartın Vocational School's 2025–2026 staff orientation guide provided information on maternity, breastfeeding and paternity leave for staff covered by Law No. 657. The guide specified eight weeks of maternity leave before and eight weeks after childbirth, and 10 days of paternity leave on request following a spouse's childbirth. Information on breastfeeding leave was also included.

Source: 2025–2026 staff guide, PDF pages 109–110, leave entitlements





Preschool Education Opportunities for Parents

The kindergarten on Ağdacı Campus provides education for the preschool-aged children of academic and administrative staff. This service is among the campus facilities that support employees with children in combining work and family life.

Source: 2025–2026 staff guide, PDF page 83, preschool education provision



In 2025, outdoor learning areas were created at Kutlubey Kindergarten with contributions from Faculty of Education teaching staff and students. The work enriched preschool learning environments, diversified children's learning opportunities and supported the development of educational infrastructure on campus.

Source: Kutlubey Kindergarten improvements and photographs, 25 September 2025





Education on Shared Care Responsibilities

A panel organised jointly by the Department of Midwifery and the Women and Family Studies Centre in October 2025 addressed fathers' supportive role during breastfeeding. The discussion covered fathers' emotional and practical support and shared responsibilities in parenting. The event addressed the sharing of childcare responsibilities within families through education.

Source: Panel on shared parenting responsibilities and photographs, October 2025





Women's Representation in Academic Staffing

As of 31 December 2025, Bartın University employed 716 academic staff members, comprising 305 women and 411 men. Women accounted for 42.6% of academic staff. The gender distribution of academic personnel was made publicly available through institutional reporting.

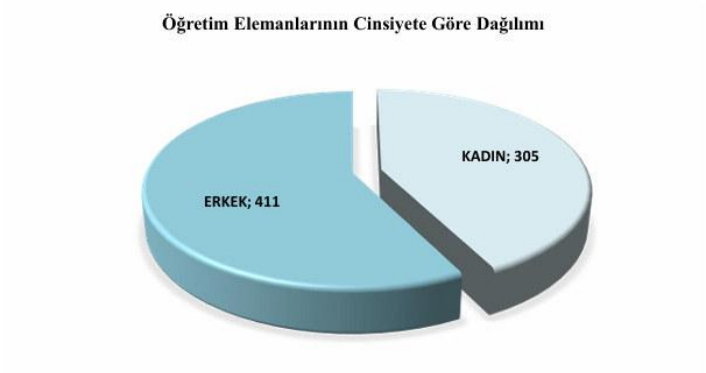
Source: 2025 University Annual Activity Report, PDF page 69, Table 20



Tablo 20. Öğretim Elemanlarının Cinsiyete Göre Dağılımı

Üniversitemiz akademik insan kaynağının 31.12.2025 tarihi itibariyle cinsiyete göre dağılımı; 305 kadın, 411 erkek olmak üzere toplam 716'dır.

Kadro	Kadın	Erkek	Toplam
Akademik İnsan Kaynağı	305	411	716



Addressing Women's Needs in Local Policy

The Family-Friendly City Workshop, organised jointly by BARÜ and Bartın Municipality on 15 December 2025, included a women-friendly city theme. Public institutions, academics and other stakeholders examined employment, education, safety, transport, equal opportunities and participation in local government. The workshop brought women's needs in urban life into local policy discussions through institutional cooperation.

Source: Family-Friendly City Workshop and photographs, December 2025

Source: Women and Family Studies Centre 2025 Annual Activity Report, PDF page 2, event dates







Clean Water and Sanitation

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook education and research on the protection of water resources and developed its water treatment and rainwater harvesting infrastructure. Research on composite filters, the soil moisture monitoring network, wastewater treatment, meters, water network maintenance and water conservation practices were the principal areas of its sustainable water management activities.

1 Education and Training Activities

Teaching on Water Supply, Treatment and Quality Control

During the autumn semester of the 2025–2026 academic year, the Department of Environmental Engineering offered CEV301 Water Supply and Project Design, CEV315 Water Pollution and Quality Control, CEV401 Wastewater Treatment and Plant Design, and CEV419 Package Treatment System Design. Covering water supply, water quality control and treatment system design, these courses supported the education of technical professionals needed for water and sanitation infrastructure.

Source: Autumn 2025 Environmental Engineering course timetable

Water Conservation Awareness among Staff and Students

In 2025, 448 staff members viewed the “Water Efficiency in Daily Life” training available through the Presidency's Distance Learning Gateway. The training aimed to support employees' awareness of water conservation in everyday use.

Source: General Secretariat 2025 Improvement Implementation Report, PDF page 2

Second-year Social Studies Teaching students also organised a conservation awareness activity at the Faculty of Education on 29 May 2025 through their “Water Friendly” project. Supervised by Assoc. Prof. F. Betül Demir Evcimen, the initiative enabled prospective teachers to address responsible water use through a student project.

Source: “Water Friendly” student project and photographs, 29 May 2025





Water Treatment Training within Outdoor Sports Activities

The Outdoor Sports Club held “Basic Camping Knowledge – Water Treatment” training on 29 April 2025. Addressing water treatment alongside basic camping knowledge, the training formed part of the University's learning activities delivered through student clubs.

Source: 2025 Department of Health, Culture and Sports Annual Activity Report, page 26

2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 6 through research focusing on the protection and sustainable management of water resources. Of the University-affiliated publications associated with this goal, 12 are indexed in Web of Science and 14 in Scopus.

Three-Dimensional Composite Filters for Water Treatment

Asst. Prof. Niyazi Erdem Delikanlı's research, published in RSC Advances on 8 December 2025, examined three-dimensionally printed filters for removing cationic dyes from aqueous solutions. The surfaces of composite filters containing PLA and wood flour were treated with potassium hydroxide. Experiments using crystal violet as a model pollutant achieved removal efficiencies of up to 97.5% under specific conditions. The study was a laboratory-scale investigation of materials and filter designs with potential applications in water treatment.

Source: https://doi.org/10.1039/d5ra08506c



RSC Advances

ROYAL SOCIETY OF CHEMISTRY

PAPER

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Cite this: *RSC Adv.*, 2025, **15**, 48381

Fabrication and characterization of 3D-printed PLA-based composite filters for cationic dye removal

Niyazi Erdem Delikanli *

This study presents the fabrication and characterization of 3D-printed biodegradable composite filters for the removal of cationic dyes from aqueous solutions. Inspired by the hierarchical structure of tree leaves, the filters were produced using commercially available polylactic acid (PLA) and a PLA/wood composite filament containing 30% wood dust, *via* fused deposition modeling (FDM). Post-printing modification was performed by treating the filters with aqueous potassium hydroxide (KOH) solutions at varying concentrations (0.1, 0.2, and 0.4 M). The adsorption behavior was assessed using Crystal Violet (CV) as a model cationic dye at concentrations ranging from 10 to 200 mg L^{-1} under gravity driven filtration. KOH treatment significantly enhanced the dye adsorption capacity of PLA/wood composite filters, achieving removal efficiencies up to 97.5%. Surface characterization *via* SEM, FTIR, XRD, and pHpzc analysis confirmed that KOH activation increased surface roughness and introduced functional groups, leading to enhanced electrostatic interaction with cationic species. Moreover, the bioinspired filter geometry with hierarchical porosity contributed to improved mass transfer and dye retention. These findings demonstrate the synergistic effect of material composition, surface modification, and structural design in developing 3D-printed filtration media. The study offers a reproducible and scalable approach for designing polymer-based sorbents for potential applications in water purification.

Received 5th November 2025
Accepted 2nd December 2025

DOI: 10.1039/d5ra08506c

rsc.li/rsc-advances

Flood Early Warning and Hydrological Monitoring

Research published at the 2025 ISAS symposium examined the role of soil moisture stations installed at 32 locations in the Bartın Basin in early warning systems. Data from sensors at different depths were intended to provide inputs to a hydrological model. With contributions from BARÜ researchers, the study developed an approach to monitoring rainfall infiltration and soil moisture conditions.

Source: https://doi.org/10.1109/ISAS66241.2025.11101878

3 Social Initiatives and Institutional Practices

Water Infrastructure Investments Completed in 2025

Construction of the Kutlubey Campus Water Treatment Plant and the Green Roof and Rainwater Harvesting project proceeded in 2025, with both investments reaching provisional acceptance. A treatment plant was constructed for campus-wide use of water supplied from the well in the Topalali area and collected in the main clean water reservoir at Kutlubey. These investments supported the development of the campus water supply infrastructure and the utilisation of rainwater. The investment amounts in the table represent contract values.

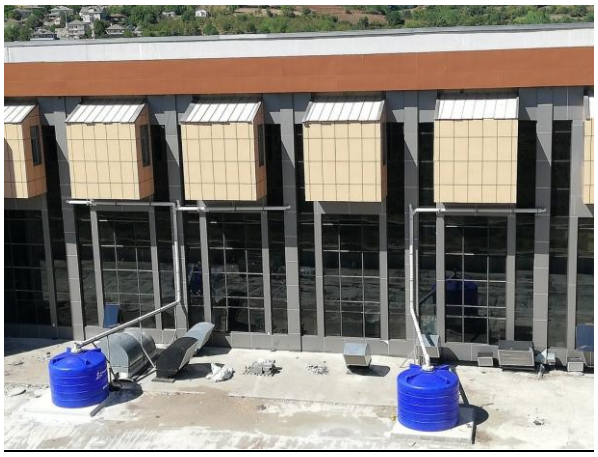
Investment	Start of works	Provisional acceptance	Contract value
Kutlubey Water Treatment Plant	2 January 2025	10 September 2025	TRY 7,796,500
Green roof and rainwater harvesting	20 January 2025	27 June 2025	TRY 2,442,261

Source: Construction and Technical Affairs, works completed in 2025 and acceptance records

Source: Construction and Technical Affairs 2025 Annual Activity Report, PDF page 19, water treatment plant

Source: Photographs of the green roof and rainwater harvesting installation





Wastewater Treatment and Environmental Monitoring

Bartın University uses its own treatment plants on Ağdacı and Kutlubey campuses for wastewater management. Wastewater from Ulus and Kurucaşile campuses is conveyed to municipal sewerage systems. The use of treated water for irrigation on Kutlubey Campus supports the sustainable use of water resources. Environmental consultancy and analysis services for the Kutlubey treatment plant were also undertaken in 2025, supporting environmental monitoring of the treatment infrastructure.

Source: 2025 University Annual Activity Report, PDF page 47, Ağdacı facilities

Source: Construction and Technical Affairs 2025 Annual Activity Report, PDF page 15, environmental analysis and consultancy

Source: University wastewater treatment systems and facility photographs





Metering Infrastructure and Consumption Monitoring

Water meters were installed in all buildings on Kutlubey Campus, establishing infrastructure for building-level consumption monitoring. The General Secretariat's public consumption system provides access to data by year and consumption category. Monthly billing and water consumption records for Ağdacı Campus in 2025 were also shared through the system, supporting consumption monitoring and institutional transparency.

Source: General Secretariat 2025 Improvement Implementation Report, PDF page 2

Source: Metered Utility Consumption Statistics, 2025, Water section

Water Network Maintenance and Rainwater Infrastructure

In 2025, the Department of Construction and Technical Affairs repaired the Çeştepe water pipeline and addressed bursts in the main transmission line. Rainwater collection and drainage works were undertaken on Ağdacı Campus, and sewerage and rainwater lines were improved. These activities supported water infrastructure maintenance and rainwater management.

Source: Construction and Technical Affairs 2025 Annual Activity Report, PDF pages 17–18, water infrastructure works

Rainwater Management and Low-Water Landscaping

Kutlubey Pond serves to collect rainwater and regulate campus drainage. It is among the infrastructure facilities supporting on-campus rainwater management and the regulation of surface runoff.

Source: 2025 University Annual Activity Report, PDF page 39, Kutlubey Pond

Bartın University favours plant species with low water requirements in campus landscaping to use water resources efficiently and reduce irrigation needs. These include grass mixtures requiring less water and drought-tolerant plants such as juniper, rosemary and lavender.

Source: Drought-tolerant landscaping approach and plant examples





World Water Day Awareness Activities

In March 2025, an awards ceremony and exhibition were held for the World Water Day poster competition themed “Water in Bartın: Climate Change and the Future of Water Resources”. A total of 131 individual participants from 17 universities submitted 187 works. Twenty selected works were displayed in the Rectorate foyer, with the exhibition planned to remain open for one month. The event shared messages on water resource protection with the public through visual design.

Source: World Water Day exhibition and awards ceremony photographs, 22 March 2025





Model Exhibition for World Water Day

Students in the Department of Landscape Architecture created models themed around World Water Day as part of the PEM 132 Model Making Techniques course. Supervised by Assistant Professor Pelin Keçecioğlu Dağlı and Research Assistant Dr Aybüke Özge Boz Demir, the models went on display in the department's foyer on 28 March 2025. Integrating water awareness into practical design education, the exhibition enabled students to share their work with visitors and supported awareness of water issues through visual expression.

Source: News text





Affordable and Clean Energy

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) continued its energy management work through institutional policy, consumption tracking, building-level monitoring and education. Research addressed solar energy systems, hydrogen production and energy-storing construction materials. Practices for the efficient use of energy resources were monitored through an ISO 50001 surveillance audit and annual performance data.

1 Education and Training Activities

Courses on Renewable Energy and the Environment

During the spring semester of the 2024–2025 academic year, the Department of Electrical and Electronics Engineering's EEM485 Renewable Energy Sources and the Department of Textile Engineering's MUH402 Environment and Energy were offered to students across programmes through the interdepartmental elective course pool. The courses supported students in considering the relationship between energy resources and the environment alongside their own disciplines.

Source: Spring semester 2025 interdepartmental elective course list, PDF page 4

2024-2025 Akademik Yılı Bahar Döneminde Açılan Bölüm Dışı Seçmeli Dersler ve Kontenjanlar

Akademik Birim	Bölüm/Program	Dersin Kodu	Dersin Adı	AKTS	2024-2025 Bahar Dönemi Kontenjanları		Dersin Verileceği Yerleşke
					N.Ö.	İ.Ö.	
Mühendislik, Mimarlık ve Tasarım Fakültesi	Bilgisayar Mühendisliği	BSM252	Ptyhon Programlama	4	50	0	Kutlubey Yerleşkesi
	Makine Mühendisliği	MAK320	Robotlar	5	25	0	
	Elektrik-Elektronik Mühendisliği	EEM485	Yenilenebilir Enerji Kaynakları	5	25	0	
	Peyzaj Mimarlığı	PEM334	Akıllı Kentler	4	25	0	
		PEM356	Engelsiz Mekan Standartları	4	25	0	
	Tekstil Mühendisliği	TEK469	Avrupa Birliği Tekstil Sürdürülebilirlik Stratejisi	4	50	0	
		MUH402	Çevre ve Enerji	4	50	0	
		MUH407	Etik ve Ahlak	4	50	0	
		THU300	Topluma Hizmet Uygulamaları	4	50	0	
	Çevre Mühendisliği	CEV445	İklim Değişikliği	4	30	30	
	İnşaat Mühendisliği	INS126	Afet Yönetimi	4	25	25	
	Metalurji ve Malzeme Mühendisliği	MLZ314	Akıllı Malzemeler	4	30	30	
		MLZ409	Nanomalzemeler ve Nanoteknoloji	4	30	30	
	TOPLAM DERS VE KONTENJAN SAYISI		13		465	115	
					580		

Energy Efficiency Training for Staff and Students

Training on energy and water efficiency was delivered on 13 February 2025 as part of preparatory training for probationary civil servants. The session addressed efficient resource use and conservation practices in public institutions, aiming to develop participants' awareness of resource management.

Source: Energy and water efficiency training for probationary civil servants and photographs, 13 February 2025





A total of 13 training sessions were delivered in 2025 to develop energy efficiency awareness among students and employees. Topics included the Energy Efficiency Law, the relationship between energy and the environment, artificial intelligence in energy, the ISO 50001 Energy Management System, and energy efficiency in daily life and public buildings.

Source: General Secretariat 2025 Improvement Implementation Report, PDF page 2

Efficient Resource Use in Student Orientation

First-year students in the Department of Accounting and Taxation received information on energy efficiency and zero waste during their orientation training on 19 September 2025. The training aimed to develop new students' awareness of efficient campus resource use and environmental responsibilities.

Source: Department of Accounting and Taxation orientation training and photographs, 19 September 2025





Energy Resources Education for Secondary School Pupils

In 2025, students in the Public Relations and Publicity Programme at Bartın Vocational School implemented the social responsibility project “Make the Right Handprint for Our Environmental Resources!” at Bartın Borsa İstanbul Secondary School. Renewable and non-renewable energy resources were introduced through gamified learning activities and visual materials. Resource classification activities and coloured handprints encouraged pupils' participation and supported awareness of responsible energy resource use.

Source: Energy resources awareness activity for secondary school pupils





2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 7 through research focusing on clean energy and energy efficiency. Of the University-affiliated publications associated with this goal, 61 are indexed in Web of Science and 60 in Scopus.

Student Research on Energy-Efficient Materials

Student Mahmut Helvalı's TÜBİTAK 2209-A project aimed to develop a flame-resistant phase change material to support residential energy efficiency. Scheduled for 8 April 2025–8 April 2026, the research focuses on impregnating poplar wood with boric acid and capric acid. The project supports student participation in scientific research on energy storage and construction materials.

Source: Project and Technology Office 2025 Annual Activity Report, PDF page 88

Combined Investigation of Electricity and Heat Generation from Solar Energy

Research published in the 2025 volume of Applied Thermal Engineering, with authors including Prof. Abid Ustaoğlu, Research Assistant Hakan Büyükpatpat, Assoc. Prof. Hüseyin Kaya and Assoc. Prof. Bilal Kurşuncu, compared concentrating photovoltaic and solar thermal systems. Highly reflective and diffusely reflective surfaces were assessed in terms of electrical and thermal efficiency, exergy and economic payback periods. The experiments provided findings for evaluating solar system performance alongside installation costs.

Source: https://doi.org/10.1016/j.applthermaleng.2024.125355

Applied Thermal Engineering 263 (2025) 125355

Contents lists available at ScienceDirect

Applied Thermal Engineering

journal homepage: www.elsevier.com/locate/apthermeng

Research Paper

Experimental performance investigation of high reflective and diffuse reflective concentrating photovoltaic/ thermal (CPVT) systems using non-imaging concentrators from energy, exergy, and economic viewpoint

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ARTICLE INFO

Keywords:
Concentrating photovoltaic thermal
Electric and thermal efficiency
Exergy
Response surface method
Net present value
Internal Rate of Return

ABSTRACT

A diffuse reflective (DR) surface in a concentrating photovoltaic thermal system (CPVT) system can provide uniform solar energy dispersion, minimizing hot spots, uneven lighting, and efficiency loss compared to costlier, highly reflective (HR) surfaces. This study uniquely compares the performance of HR-CPVT and DR-CPVT systems, highlighting the significant thermal and electrical efficiency of HR-CPVT while demonstrating the cost-effectiveness of DR-CPVT. The direct comparison of these systems under varying conditions provides novel insights into the trade-offs between high performance and economic feasibility. The performances of CPVTs were examined under various seasonal and weather conditions. The advantage of HR-CPVT was less pronounced in autumn due to seasonal effects. In the summer season, the cooling effect of water becomes more prominent, and the HR-CPVT outperformed the DR-CPVT by 6.1 to 8.5 %, depending on the mass flow rate in terms of overall efficiency. This advancement majorly arises from thermal efficiency. HR-CPVT achieved about a 5.6–7.9 % larger thermal efficiency. However, the electrical efficiency difference was minimal (−0.5 %) and diminished to 0.1 % in the afternoon due to practical PV power generation limits. Despite its high reflectivity, HR-CPVT showed only marginal exergetic benefits over DR-CPVT. The simple payback period was calculated to be 3.65 years for HR-CPVT, while it was only 3.19 years for DR-CPVT due to its lower installment cost. RSM analysis accurately predicts the experimental results.

Thermal Energy Storage Concrete for Buildings

A study involving Prof. Abid Ustaoğlu and Prof. Ertuğrul Erdoğmuş, published in Energy and Buildings in 2025, integrated phase change materials containing Mardin stone and lauryl alcohol into concrete. The physical, mechanical and thermal properties of the composites were examined. Under experimental conditions, daytime indoor temperature reductions of up to 1.81 °C and night-time increases of up to 0.93 °C were reported. The study assessed the potential for heat storage and reduced temperature fluctuations in building envelopes.

Source: https://doi.org/10.1016/j.enbuild.2025.116324

Energy & Buildings 347 (2025) 116324

Contents lists available at ScienceDirect

Energy & Buildings

journal homepage: www.elsevier.com/locate/enb

Development of Mardin Stone-Based Shape-Stabilized phase change material concretes for sustainable thermal energy storage in buildings

Abid Ustaoğlu [a,b,*], Hande Torlaklı [c], Vedat Veli Cay [d], Şermin Kocyiğit [e], Ertuğrul Erdoğmuş [f], Gökhan Hekimoğlu [g], Ahmet Sarı [g,h], Osman Gencel [i]

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[i] Civil Engineering Department, Faculty of Engineering, Architecture and Design, Bartin University, 74100 Bartin, Türkiye

ARTICLE INFO

Keywords:
Mardin stone
Lauryl alcohol
Shape-stabilized PCM
Concretes
Thermal performance
Carbon emission reducing
Energy storage and saving

ABSTRACT

Heat-based energy storage systems play a vital role in optimizing energy management in buildings by efficiently storing excess thermal energy and releasing it when needed, thereby reducing energy consumption and enhancing sustainability. Among thermal energy storage methods, phase change material (PCM) applications are at the forefront, offering energy absorption and release capabilities through building envelopes. With its natural porosity and thermal stability, Mardin stone is a sustainable and energy-efficient base material for composite applications, enhancing heat storage capacity and promoting eco-friendly construction solutions. This study presents an innovative approach by integrating shape-stabilized PCM (SSPCM) into concrete, utilizing a novel combination of natural and sustainable materials for energy-efficient building systems. By combining Mardin stone (MS) with Lauryl alcohol (LAOH), the composite was tested in various ratios (25–100 wt%) to evaluate its thermal, physical, and mechanical properties. The MS/LAOH composite exhibited a melting temperature of 19.95 °C, reduced thermal conductivity by 13.19 %, and decreased compressive strength by 6.1 MPa. Thermoregulation tests demonstrated up to a 1.81 °C reduction in daytime room center temperatures and a 0.93 °C increase in nighttime temperatures. Furthermore, integrating MS/LAOH reduced emissions of 33.68 kg $CO_2 \cdot m^{-2} \cdot year^{-1}$ and annual cost savings of $4.80 $\cdot m^{-2}$. These findings highlight the potential of composites to enhance energy efficiency and reduce environmental impact in buildings, contributing to zero-energy goals.

Energy Storage Materials from Industrial Waste

The project “Supercapacitor Production from Industrial Waste Using Green Chemicals”, led by Prof. Ayben Kılıç Pekgözlü, is being conducted with TÜBİTAK COST support from 15 November 2024 to 15 November 2027. It aims to utilise industrial waste in energy storage technologies through the use of green chemicals.

Source: Project and Technology Office 2025 Annual Activity Report, PDF page 69

Catalyst Development for Hydrogen Production

Research on hydrogen production from borane derivatives and electrochemical analyses was conducted within a TÜBİTAK 1002 project led by Dr Aykut Çağlar. Scheduled for 1 September 2024–1 September 2025, the study focused on the performance of rhodium alloy catalysts supported on composites containing ZIF 8, ZIF 67 and NiMoO4.

Source: Project and Technology Office 2025 Annual Activity Report, PDF page 81

3 Social Initiatives and Institutional Practices

Energy Policy and Institutional Action Plan

In 2025, Bartın University updated YÖD 0062 Bartın University Energy Policy to support efficient energy resource use and the development of sustainable energy management practices. The policy addresses the prevention of energy waste, consumption and performance monitoring, the selection of efficient equipment, loss reduction and support for renewable energy use. It also provides for the joint assessment of maintenance, operating and energy consumption costs in new projects and refurbishment works.

Source: Bartın University Energy Policy

In line with Bartın University's energy policy and the 2024–2028 Energy Management System Strategic Action Plan, total energy consumption is targeted to decrease by 30% by 2030. Planned measures include improvements to building insulation, lighting, heating, ventilation and air conditioning systems, together with the replacement of equipment with energy-efficient alternatives.

Source: 2025 Institutional Internal Evaluation Report, PDF page 13

Source: 2024–2028 Energy Management System Strategic Action Plan, PDF pages 39–41

ISO 50001 Energy Management System and Surveillance Audit

Bartın University obtained ISO 50001 Energy Management System certification from the Turkish Standards Institution (TSE) to support efficient energy resource use and systematic energy management. Continuity during the year was monitored through the first surveillance audit on 3–4 November 2025. Energy performance indicators, maintenance and operating processes, monitoring systems and documentation were examined on Kutlubey and Ağdacı campuses.

Source: Energy management system certification and interinstitutional knowledge sharing, 8 January 2025

Source: ISO 50001 surveillance audit and photographs, 3–4 November 2025



ENERJİ YÖNETİM SİSTEMİ BELGESİ
ENERGY MANAGEMENT SYSTEM CERTIFICATE

TÜRK STANDARDLARI ENSTİTÜSÜ
bu belge ile

BARTIN UNIVERSITESI
MERKEZ BARTIN UNIVERSITESI KUTLUBEY YERLEŞKESI
KUTLUBEYYAZICILAR KÖYÜ YENI KÜME EVLER YENI
SOKAK NO 47 MERKEZ - BARTIN
TESIS AĞDACI YERLEŞKESI MERKEZ -
BARTIN / TÜRKIYE

kuruluşunun TS EN ISO 50001:2018 şartlarına uygun bir ENERJİ YÖNETİM SİSTEMİ'ne sahip olduğunu onaylar.

Belge kapsamı Ek'te verilmiştir

TSE
TS - EN - ISO
50001

TÜRK STANDARDLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

Sistem Belgelendirme Grup Başkanı
Head of System Certification Group

Türk Standardları Enstitüsü Türk Akreditasyon Kurumu TÜRKAK tarafından akredite edilmiştir.
Turkish Standards Institution, has been accredited by the Turkish Accreditation Agency TÜRKAK.

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TESIS AĞDACI YERLEŞKESI MERKEZ -
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has a ENERGY MANAGEMENT SYSTEM CERTIFICATE which fulfills the requirements of the TS EN ISO 50001:2018

Scope of the certificate is given in annex

Belge No / Certificate No
EYB-386/24
Belge Tarihi / Date of Certificate
22.11.2024
Geçerlilik Tarihi / Valid Until
22.11.2027
Revizyon Tarihi / Date of Revision
22.11.2024
İlk Belge Tarihi / Initial Certification Date
22.11.2024

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Building-Level Energy Monitoring Infrastructure

In 2025, energy analysers were installed on the main distribution panels of buildings on Kutlubey and Ağdacı campuses, completing remote reading and control infrastructure. Fifteen buildings were integrated into the remote monitoring system. The infrastructure enabled building-level tracking of energy consumption and assessment of energy use.

Source: General Secretariat 2025 Improvement Implementation Report, PDF page 2

PRS 0033 Energy Management System Process Card assigns process responsibility to the Energy Management Team and defines monthly monitoring and annual evaluation periods. It addresses energy performance improvement, cost reduction and the monitoring of environmental impacts arising from consumption.

Source: PRS 0033 Energy Management System Process Card

Interbuilding Efficiency Assessment

An assessment meeting for the Interbuilding Efficiency Competition was held on 27 February 2025. A five-member committee examined building-level data and documentation on energy, water and resource efficiency. The initiative provided an institutional assessment of units' conservation efforts.

Source: Interbuilding energy and water efficiency assessment, 27 February 2025



Energy Consumption and Renewable Energy Generation in 2025

In 2025, electricity, natural gas and fuel consumption were tracked by designated General Secretariat focal staff. During the same period, the University campuses generated 103.25 MWh (371.7 GJ) of renewable energy. Consumption by energy source is presented below in the respective units of measurement.

Energy source	2025 consumption	Unit
Electricity	2,470,774	kWh
Natural gas	570,197	m^3
Fuel	37,869	litres

Source: 2025 University Annual Activity Report, Table 54, PDF page 191

Source: 2025 University Annual Activity Report, Target Card 15, PDF page 284

Planned Solar Energy System for Kutlubey Car Parks

Under KAYEP, a 762.3 kWp solar energy system was planned for approximately 6,700 m^2 across three outdoor car parks on Kutlubey Campus. The connection application for the investment, with an anticipated annual output of approximately 949 MWh, could not be concluded because of the capacity situation at the relevant transformer station. The process was expected to resume following capacity allocation or expansion. The investment formed part of the renewable energy activities at the planning and application stage in 2025.

Source: 2025 University Annual Activity Report, Target Card 15, PDF page 284

Sharing Energy Management Experience with Other Institutions

At an online meeting held during Energy Week 2025, Bartın University (BARÜ) shared its work on energy conservation in public buildings with participants from different

institutions. Knowledge and experience relating to energy management practices on University campuses were communicated to external stakeholders.

Source: Energy management system certification and interinstitutional knowledge sharing, 8 January 2025





Decent Work and Economic Growth

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) supported young people's preparation for working life through vocational skills and entrepreneurship training, internships and career opportunities. Employment structure, trade union representation, collective bargaining, employee application channels and work ethics training formed the institutional dimension of this work. Research on regional development and social security, together with activities conducted with public institutions and businesses, focused on a skilled workforce and economic development.

1 Education and Training Activities

Job Application and Interview Skills

CV Preparation and Interview Techniques Training was held on 3 December 2025 as part of the Career Planning Application and Research Centre's autumn activities. Attended by students including those from the Department of Landscape Architecture, the training supported preparation for job applications and recruitment processes.

Source: Participation in CV and interview training and photographs, 3 December 2025





Vocational Training for the Retail Sector

University academics contributed theoretical instruction to the Qualified Workforce Training Programme implemented jointly by BÜNSEM, İŞKUR, the Bartın Chamber of Commerce and Industry and BİM. In accordance with National Occupational

Standards, the Retail Sales Assistant programme comprised 750 hours: 40 hours of theoretical instruction and 710 hours of workplace practice. It aimed to develop the skills required by the sector alongside workplace experience.

Source: NİYEP training for the retail sector and photographs, 7 October 2025





Occupational Health and Safety before Professional Practice

Bartın Vocational School provided basic occupational health and safety training for Public Relations and Publicity students on 29 April 2025 and for Computer Programming and Organic Agriculture students on 30 April 2025. Delivered by specialist Işıl Erginyürek from the Bartın Provincial Directorate of National Education, the sessions addressed occupational accidents, occupational diseases, risks and safe working environments.

Source: Occupational health and safety training for students, 29–30 April 2025

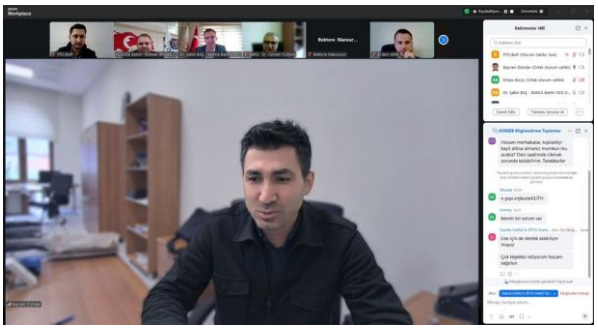




Entrepreneurship and Business Model Development Training

In 2025, online entrepreneurship training was organised with the KOSGEB Bartın Provincial Directorate as part of the 8th International R&D Project Market activities. Open to all researchers and prospective entrepreneurs who had applied to the project market, the training covered commercialisation, company formation, access to support and grants, and business model development.

Source: Delivery of KOSGEB entrepreneurship training, 9 December 2025





The Department of Management and Organisation at Bartın Vocational School and the KOSGEB Bartın Provincial Directorate jointly organised the Entrepreneurship, Innovation and KOSGEB Support Seminar on 8 May 2025. The programme provided information on entrepreneurship and available support opportunities. Participants' questions were answered, supporting their access to information on KOSGEB support.

Source: Entrepreneurship, Innovation and KOSGEB Support Seminar, 8 May 2025





2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 8 through research focusing on working life and sustainable economic growth. Of the University-affiliated publications associated with this goal, 6 are indexed in Web of Science and 21 in Scopus.

Local Community Participation in Regional Development Projects

Serkan Deniz Koşoçaydan's doctoral thesis, accepted in 2025, examined the environmental impacts of the Filyos Valley Project through a survey of 412 participants living in settlements around the project area. It investigated local residents' assessments of industrial and port investments. The study provided data for evaluating regional economic development alongside environmental conditions and community participation.

Source: Doctoral thesis on the Filyos Valley Project and local community views, 2025


DSpace@Bartın Kurumsal Akademik Arşiv

Koleksiyonlar DSpace İçeriği İstatistikler Varlıklar Analiz Talep/Soru

Ana Sayfa • Lisansüstü Eğitim Enstitüsü • Lisansüstü Eğitim Enstitüs... • Filyos Vadisi Projesi'nin çe...

Filyos Vadisi Projesi'nin çevresel etkileri: Yerel halkın görüşleri

Dosyalar

Serkan Deniz Koşaçaydan+.pdf (1.96 MB)

Tarih

2025

Yazarlar

Koşoçaydan, Serkan Deniz

Yayıncı

Bartın Üniversitesi, Lisansüstü Eğitim Enstitüsü

Erişim Hakkı

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Özet

Filyos Vadisi Projesi (FVP), Zonguldak'ta hayata geçirilmiş büyük bir sanayi ve liman projesidir. Proje, ekonomik kalkınmayı hızlandırmayı, istihdam yaratmayı ve Türkiye'nin dış ticaretini artırmayı hedeflemektedir. Filyos Limanı, Endüstri Bölgesi ve Serbest Bölgesi gibi bileşenlerden oluşan proje, bölgede ekonomik büyümeyi ve refahı artırmayı amaçlamaktadır. FVP, Sultan Abdülhamid (1876-1909) döneminde temelleri atılan, Türkiye'nin ekonomik ve stratejik hedefleri doğrultusunda önem taşıyan bir projedir. Proje kapsamında Filyos Limanı kurulmuş olup sanayi tesisleri ise kurulma aşamasındadır. Filyos, Karadeniz'de 2021 yılında keşfedilen doğal gaz rezervlerinin işlenmesi ve dağıtımı için önemli bir merkez haline gelmiştir. 2012'de Bakanlar Kurulu kararı ile hayata geçirilen FVP, 2 bin hektarlık alandakurulmuş olup, bu alanın 400 hektarı sanayi tesislerine ayrılmıştır. Filyos Limanı, yıllık 25 milyon ton kargo kapasitesine sahiptir. 2021'deki doğal gaz keşfiyle limanın önemi daha da artmıştır. 4737 sayılı Endüstri Bölgesi Kanununyla (2002) kamulaştırma yapılarak kamu yararına projeler için arazi tahsisi yapılmaktadır. Filyos Endüstri Bölgesi (344 hektar alan) 4737 sayılı Endüstri Bölgeleri Kanunu'na (2002) göre kurulmuş ve yönetilmektedir. Bu kanun, Türkiye'de endüstri bölgelerinin kurulması, yönetimi ve işletilmesi için yasal bir çerçeve sunmaktadır. Kanunu'nun olumlu etkilerinin yanı sıra, bazı olumsuz etkileri de bulunmaktadır. Endüstri bölgelerinin kurulması ve işletilmesi, çevresel kirlilik riski taşımaktadır. Bu risk, projenin yerel halk nezdinde görüşlerinin incelenmesinin temel nedenini oluşturmuştur. Endüstri bölgesi henüz tam anlamıyla faaliyete geçmemiş ve öngörülen yatırımlar henüz gerçekleşmemiştir. Filyos Limanı ve Endüstri Bölgesi kuruluş ve işletme aşamalarında çevresel riskleri içerisinde barındırmaktadır. Atık yönetimi ve emisyon kontrolü konularında yeterli önlemler alınmadığında, hava, su ve toprak kirliliği gibi sorunlar ortaya çıkabilir. Endüstri bölgelerinin yer seçimi, doğal yaşam alanlarının tahrip edilmesine ve biyolojik çeşitliliğin azalmasına neden olabilir. Endüstri bölgelerinin yoğunlaştığı bölgelerde, aşırı nüfus artışı ve kentleşme sorunları yaşanabilir. Bu durum, altyapı yetersizlikleri, konut sıkıntısı ve sosyal hizmetlerin yetersizliği gibi sorunlara yol açabilir. Bu olumsuz etkilerin en aza indirilmesi için, endüstri bölgelerinin planlanması, kurulması ve işletilmesi süreçlerinde çevresel etki değerlendirmelerinin yapılması, sürdürülebilir kalkınma ilkelerinin benimsenmesi ve etkin denetim mekanizmalarının

Retirement and Intergenerational Social Security Solidarity

A study by Hasan Aslan and Oğuz Karadeniz, published in 2025, examined views on early retirement from the perspective of intergenerational solidarity. Content analysis was applied to 103 topics on Ekşi Sözlük and 400 user posts within the 10 most discussed topics. The study provided research findings on the sustainability of the social security system, perceptions of fairness in pension rights and the expectations of younger generations.

Source: https://doi.org/10.30798/makuiibf.1586383


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Early Retirement Practice in Türkiye and Young Generations' Reactions: An Analysis of Intergenerational Solidarity *

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OPEN ACCESS

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* This article is an expanded and updated version of the paper presented by the authors under the title "The Early Retirement Practice in Turkey and The Responses of Young Generations: The Qualitative Research in Terms of The Intergenerational Solidarity" at the 29th International Research Seminar on Issues in Social Security, organized by The Foundation for International Studies of Social Security (FISS) in Sweden between June 12 and June 14, 2023.

https://doi.org/10.30798/makuiibf.1586383

Abstract

In social insurance systems—particularly in pay-as-you-go (PAYG) models—pensions are financed by contributions from the younger population when individuals encounter the risk of old age. Thus, the cycle continues as each generation supports the previous one. However, this solidarity may be undermined if the system, which is founded on the principle of trust, grants benefits to those who are not yet exposed to the risk of old age. In Türkiye, the old-age insurance system has frequently been subject to political interventions, especially during election periods, which has weakened the principle of solidarity in its operation. Following the previous experiences, Law No. 7438—enacted in 2023—granted pension rights to those insured on or before September 8, 1999, provided they meet all conditions except for the age requirement. This legislation reopened the path to retirement after 20 years of work for women and 25 years for men. While the law received strong support from those within its scope of the law, it sparked criticism, particularly among younger generations who were excluded from its scope. This study aims to explore the support and opposition triggered by the implementation of Law No. 7438, based on post *titles* and user comments (*entries*) published on the online platform Ekşi Sözlük. Using content analysis, five thematic categories were identified to achieve this purpose. According to the findings, 64% of the 103 titles and 67% of the most popular 400 entries in the 10 titles with the highest number of entries (most-discussed) express opposition to the law. The most prevalent theme was "Generation X, Y, Z / Child / Young / Old." Additionally, 129 of the sampled entries (i.e., over 32%) emphasized intergenerational perspectives. The law has thus generated visible tension between "non-elderly elders" and younger generations.

Keywords: Early retirement, Intergenerational solidarity, Pension.

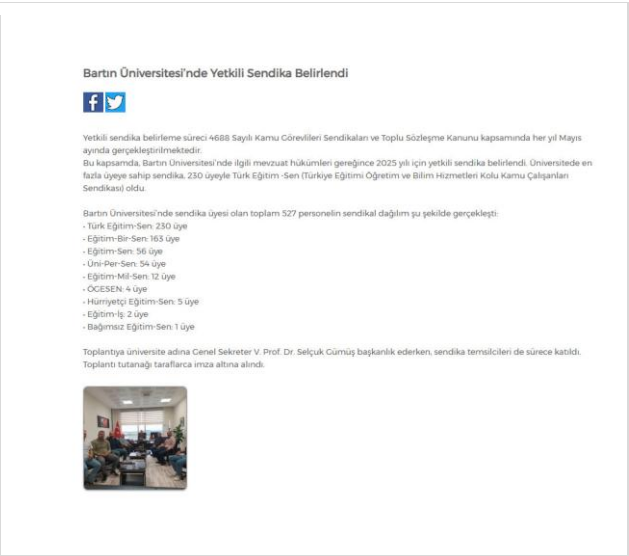
3 Social Initiatives and Institutional Practices

Trade Union Representation and Collective Bargaining

In 2025, the distribution of 527 public employees belonging to trade unions at the University was made public. Türk Eğitim Sen was identified as the largest union, with 230 members. Conducted with University management and union representatives, the process of determining the authorised union concluded with a record signed by the parties.

Source: Authorised union determination record and membership distribution, 2025





Bartın Üniversitesi'nde Yetkili Sendika Belirlendi

Yetkili sendika belirleme süreci 4688 Sayılı Kamu Görevlileri Sendikaları ve Toplu Sözleşme Kanunu kapsamında her yıl Mayıs ayında gerçekleştirilmektedir.
Bu kapsamda, Bartın Üniversitesi'nde ilgili mevzuat hükümleri gereğince 2025 yılı için yetkili sendika belirlendi. Üniversitede en fazla üyeye sahip sendika, 230 üyeyle Türk Eğitim -Sen (Türkiye Eğitimi Öğretim ve Bilim Hizmetleri Kolu Kamu Çalışanları Sendikası) oldu.

Bartın Üniversitesi'nde sendika üyesi olan toplam 527 personelin sendikal dağılım şu şekilde gerçekleşti:
- Türk Eğitim-Sen: 230 üye
- Eğitim-Bir-Sen: 163 üye
- Eğitim-Sen: 56 üye
- Üni-Per-Sen: 54 üye
- Eğitim-Mil-Sen: 12 üye
- ÖGESEN: 4 üye
- Hürriyetçi Eğitim-Sen: 5 üye
- Eğitim-İş: 2 üye
- Bağımsız Eğitim-Sen: 1 üye

Toplantıya üniversite adına Genel Sekreter V. Prof. Dr. Selçuk Gümüş başkanlık ederken, sendika temsilcileri de sürece katıldı. Toplantı tutanağı taraflarca imza altına alındı.

In 2025, the third-term collective bargaining agreement for employees with worker status was signed at the TÜHİS meeting hall with the participation of union officials and workplace representatives. Three union representatives also attended the Institutional Administrative Board meeting on 3 October 2025, contributing to employees' institutional representation.

Source: Third-term collective bargaining agreement signing report and photographs, 14 August 2025

Source: Personnel Department 2025 Annual Activity Report, PDF page 43



BARTIN ÜNİVERSİTESİNDE ÜÇÜNCÜ DÖNEM TOPLU İŞ SÖZLEŞMESİ İMZALANDI

14 Ağustos 2025

Görüntülenme Sayısı: 258

Sendikamız ile Bartın Üniversitesi arasında üçüncü dönem toplu sözleşme TÜHİS toplantı salonunda yapılan tören ile imzalandı

Institutional Framework against Discrimination, Harassment and Violence

The Equal Opportunities for Women and Men Plan provides for guidance to partner businesses on developing similar policies and practices to protect employees of service contractors. The plan's overall framework for equality and protection against violence is presented in the SDG 5 section.

Source: Equal Opportunities for Women and Men Plan 2023–2026, PDF pages 39–43

Training on Workplace Bullying and Work Ethics

BARÜ employees, participants from other universities and staff from public institutions in Bartın attended the online Workplace Bullying and Work Ethics training organised by the Personnel Department in September 2025. Institutional records state that more than 300 people viewed the training. The programme addressed the recognition of workplace bullying, ethical issues in working life and employees' rights.

Source: Workplace Bullying and Work Ethics training and photographs, 2025

Source: 2025 Training Report, PDF page 16





Bartın Üniversitesi- Personel Daire Başkanlığı 2025 Yılı Eğitim Raporu

26. İnsan Odaklı Liderlik ve Etkin Yönetim Konulu Hizmet İçi Eğitim Gerçekleştirildi.

Üniversitemiz Edebiyat Fakültesi Psikoloji Bölümü Dr. Öğr. Üyesi Gamze Uykucu Armutcuoğlu tarafından 23 Eylül 2025 tarihinde "*İnsan Odaklı Liderlik ve Etkin Yönetim*" konulu hizmet içi eğitim programı gerçekleştirildi

Gruplar halinde planlanan eğitimlerin ilk oturumu, Üniversitemizde görev yapan şeflere yönelik olarak düzenlendi. Katılım sağlayan şeflerimizin yer aldığı programda liderliğin önemi, liderliğin psikolojik boyutları ve yönetim süreçlerinde insan odaklı yaklaşımların önemi gibi geniş bir yelpazede konular ele alındı. Etkileşimli ve kapsamlı içerik yapısıyla öne çıkan eğitim, katılımcılar tarafından ilgiyle takip edildi.

27. Mobbing ve İş Etiği Konulu Hizmet İçi Eğitim Gerçekleştirildi

Bartın Üniversitesi Personel Daire Başkanlığı tarafından düzenlenen çevrim içi eğitim Programında, iş yaşamında çalışanların karşılaşabileceği en önemli sorunlardan biri olan mobbing konusu tüm boyutlarıyla ele alındı. "*Mobbing ile İş Etiği*" başlıklı program, alanında uzman isimlerin katkılarıyla gerçekleştirildi ve yoğun ilgi gördü.

Programa, Bartın Üniversitesi personelinin yanı sıra iş birliği içerisinde bulunulan çeşitli üniversitelerden ve ilimizdeki kamu kurumlarından katılım sağlandı. Toplamda 300'ü aşkın kişinin takip ettiği eğitim, geniş bir kitleye ulaşarak önemli bir farkındalık oluşturdu.

Eğitimin ilk oturumunda, Yeminli Sosyal Arabulucu, Mobbing İletişim-Yönetim Bilirkişisi Atatürk Üniversitesi İletişim Fakültesi Öğretim Görevlisi Jale Hülya Alcan, "Mobbing Nedir, Ne Değildir?" başlıklı sunumuyla katılımcılara seslendi. Alcan, mobbing kavramını kapsamlı biçimde açıklayarak, iş hayatında neyin mobbing olarak değerlendirilebileceğini, hangi davranışların ise bu kapsamın dışında kaldığını detaylı örneklerle aktardı. Özellikle basına yansıyan somut haberler üzerinden yaptığı analizlerle konunun toplumsal ve bireysel etkilerine dikkat çekti.

İkinci oturumda ise, Mobbing Eğitim Yardım Araştırma Derneği Erzurum İl Temsilcisi Avukat Selçuk Yıldız, "Mobbingin Hukuksal Boyutu" başlıklı sunumunu gerçekleştirdi. Av. Yıldız, mobbingin yalnızca bir etik sorun değil aynı zamanda ciddi bir hukuki mesele olduğunu vurgulayarak, iş yaşamında karşılaşılan mobbing vakalarının yargı süreçlerine nasıl yansıdığını ve çalışanların sahip oldukları yasal hakları ayrıntılı biçimde değerlendirdi. Yıldız, özellikle kamu kurumlarında görev yapan personelin haklarının korunması noktasında farkındalık oluşturulmasının önemine değindi.

Representation and Defence in Disciplinary Procedures for Permanent Workers

The Directive on Disciplinary Procedures for Permanent Workers entered into force through Senate Decision No. 2025/14-02 of 1 October 2025. It provides for a disciplinary board comprising two employer and two union representatives, the opportunity to present a defence, and written notification of decisions. It also provides for employees to challenge disciplinary sanctions before a labour court.

Source: Directive on Disciplinary Procedures for Permanent Workers, 1 October 2025

BARTIN ÜNİVERSİTESİ
SÜREKLİ İŞÇİ DİSİPLİN İŞLEMLERİNE DAİR YÖNERGE

BİRİNCİ BÖLÜM
Başlangıç Hükümleri

Amaç ve Kapsam
MADDE 1 – (1) Bu Yönergenin amacı, iş mevzuatı hükümlerine göre 657 sayılı Devlet Memurları Kanunu'nun 4 üncü maddesinin (D) bendi kapsamında sürekli işçi olarak istihdam edilen işçilerin disiplin süreçlerine ve uygulamalarına ilişkin usul ve esasları düzenlemektir.

Dayanak
MADDE 2 - (1) Bu Yönerge, 4857 sayılı İş Kanunu'nun ilgili maddelerine ve 2547 sayılı Yükseköğretim Kanunu'nun 14 üncü maddesine dayanılarak hazırlanmıştır.

Tanımlar
MADDE 3 - (1) Bu Yönerge'de geçen;
a) Birim Yetkilisi: İşçinin görev yaptığı birimin amirini,
b) Disiplin Kurulu: Toplu iş sözleşmesi kapsamında görevlendirilmiş disiplin kurulunu,
c) Disiplin Cezası: 4857 sayılı İş Kanunu ile iş sözleşmesi ve eklerinde belirtilen cezaları,
ç) İncelemeci: Birim yetkilisince İşveren Vekiline tutanakla bildirilen disipline konu olayın ilgili disiplin kuruluna sevkini değerlendirmek üzere İşveren Vekili tarafından görevlendirilen kişiyi,
d) İşçi: Kurumda çalışan sürekli işçileri,
e) İşveren: Kurum Rektörünü,
f) İşveren Vekili: Kurum Genel Sekreterini,
g) Kurum: Bartın Üniversitesini,
ğ) Rektör: Bartın Üniversitesi Rektörünü,
h) Senato: Bartın Üniversitesi Senatosunu,
ı) Toplu İş Sözleşmesi (TİS): Bartın Üniversitesi ve ilgili işçi sendikası arasında imzalanan sözleşmeyi,
İfade eder.

Receiving and Monitoring Employee Applications

In 2025, University staff submitted 35 applications to RİMER, including 16 from academic staff. Applications were referred to the relevant units and monitored. The

general application mechanism and University-wide annual results are presented in the SDG 16 section.

Source: RİMER 2025 Annual Activity Report, PDF pages 4 and 10

University Employment Structure and Economic Activities

As of 31 December 2025, the University's workforce totalled 1,242 people, including academic staff, administrative staff, permanent workers and contracted personnel. The distribution by personnel group is presented below.

Personnel group	Headcount at 31 December 2025
Academic staff	716
Administrative staff	309
Permanent workers	160
Contracted personnel	57
Total	1,242

Source: Personnel Department 2025 Annual Activity Report, PDF page 34

4.4. Yıllara Göre Akademik İnsan Kaynağı, İdari İnsan Kaynağı, Sürekli İşçi ve Sözleşmeli Personel Sayıları

Üniversitemiz kuruluşundan itibaren yıllar itibarıyla akademik insan kaynağı, idari insan kaynağı, sürekli işçi ve sözleşmeli personele ait sayılar aşağıdaki grafikte gösterilmiştir.

YILLAR	AKADEMİK İNSAN KAYNAĞI	İDARİ İNSAN KAYNAĞI	SÜREKLİ İŞÇİ	SÖZLEŞMELİ PERSONEL	TOPLAM
2008	87	42	-	-	**129**
2009	166	146	-	-	**312**
2010	238	166	-	-	**404**
2011	294	191	-	-	**485**
2012	336	209	-	-	**545**
2013	412	236	-	-	**648**
2014	452	245	-	-	**697**
2015	492	246	-	-	**738**
2016	511	245	-	-	**756**
2017	516	240	-	-	**756**
2018	564	254	130	-	**948**
2019	590	259	129	-	**978**
2020	617	267	152	-	**1036**
2021	653	268	152	-	**1073**
2022	683	263	150	54	**1150**
2023	697	312	158	31	**1198**
2024	706	312	160	51	**1229**
2025	716	309	160	57	**1242**

Student Work Experience and Income Opportunities

The İŞKUR Youth Programme and part-time employment arrangements supported students in gaining work experience at the University. Programme allocations, income eligibility and monthly participation figures are presented in the SDG 1 section.

Workplace Experience and Cooperation with the Local Workforce

Compulsory Internships as Part of Education

The Faculty of Economics and Administrative Sciences' 2025 internship calendar specified a compulsory 40-working-day internship for Tourism Management students from 7 July to 1 September 2025. It set out application, acceptance, submission of internship documents and evaluation stages. Workplace acceptance and departmental internship committee approval formed part of the implementation process.

Source: 2025 İİBF internship calendar and compulsory Tourism Management internship

STAJ İŞLEMLERİ (2025)

Paylaş:

STAJ İŞLEMLERİ (2025)	
Staj Takvimi	
02 Nisan 2025	Staj başvurularının başlaması
30 Mayıs 2025	Staj başvurularının sona ermesi
20 Haziran 2025	Staj başvuruları kabul edilenlerin ilan edilmesi
07 Temmuz 2025 / 04 Ağustos 2025	Staj Dönemi [20 iş günü] (İsteğe Bağlı Staj)
07 Temmuz 2025 / 01 Eylül 2025	Staj Dönemi [40 iş günü] (Turizm İşletmeciliği Bölümü Öğrencileri için Zorunlu Staj)
24 Ekim 2025	Staj Evraklarının Teslimi [Son günü]
07 Kasım 2025	Staj Değerlendirme Sonuçlarının İlanı

BÖLÜM STAJ KOMİSYONLARI

BÖLÜM	BAŞKAN	ÜYE	ÜYE	Üye
İktisat	Doç. Dr. Said CEYHAN (Bölüm Staj Sorumlusu)			
İşletme	Doç. Dr. Melih BAŞKOL	Doç. Dr. Aybegüm GÜNGÖRDÜ BELBAĞ	Prof. Dr. Halim AKBULUT	
Siyaset Bilimi ve Kamu Yönetimi	Dr. Öğr. Üyesi Feriştah YILMAZ	Arş. Gör. Dr. Leyla ÇİFTÇİ	Arş. Gör. Dr. Beyhan ERKURT	
Yönetim Bilişim Sistemleri	Doç. Dr. Hakan ÖZKÖSE	Doç. Dr. Kamil ÇELİK	Arş. Gör. Fatma AKGÜN	Arş. Gör. Hakan AYDOĞAN
Uluslararası Ticaret ve Lojistik	Doç. Dr. Sabahattin ÇETİN	Arş. Gör. Tuba KOÇER	Arş. Gör. Derin DÖNMEZ TOPÇUOĞLU	
Turizm İşletmeciliği	Dr. Öğr. Üyesi Hande UYAR OĞUZ	Prof. Dr. Ayhan KARAKAŞ	Dr. Öğr. Üyesi Ahmet ASLAN	

Connecting Students and Graduates with Employers

Students and graduates met company representatives at the 11th Employment and Career Days, organised jointly by the Career Centre and Bartın İŞKUR in May 2025. Employers from health, agriculture, information technology, industry and engineering participated. The programme addressed internships and employment opportunities, entrepreneurship support and the effects of technology on the business world. It enabled candidates to communicate directly with employers.

Source: Employment and Career Days and photographs, 21 May 2025





Knowledge Exchange on Local Production and Cooperatives

The Faculty of Economics and Administrative Sciences and the Bartın Provincial Directorate of Trade organised the “International Year of Cooperatives and Cooperatives in Bartın” panel on 16 December 2025. The programme addressed cooperative models, their roles in sustainable development and cooperative organisation among young farmers. Bringing together public sector and academic representatives, the panel enabled knowledge exchange on local economic organisation and collective production.

Source: Panel on cooperatives in Bartın, 16 December 2025





Industry, Innovation and Infrastructure

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) supported its innovation capacity through joint research and development with industry, intellectual property activities, entrepreneurship training and shared laboratory services. Institutional steps concerning the Technology Development Zone on Ağdacı Campus and BARÜTEK focused on developing infrastructure to connect research expertise with industry and enterprise. The University's focus on smart logistics and integrated regional applications guided its technological innovation and regional development activities.

1 Education and Training Activities

Intellectual and Industrial Property Awareness

Training on Patents, Utility Models and Designs was held at the Faculty of Forestry on 10 December 2025 for students and academic staff. Delivered by Lecturer Özlem İşcan, it covered application procedures, the utility model system, design rights and the protection of innovative ideas. On 23 December 2025, Assoc. Prof. Eyüp Burak Ceyhan also delivered awareness training on University inventions and patents/utility models in the Rectorate building.

Source: Patents, Utility Models and Designs training and photographs, 10 December 2025

Source: Awareness training, 23 December 2025, Project and Technology Office report, PDF page 148





Digital and Green Transformation in SMEs

Asst. Prof. Bayram Dündar served as a trainer at the “Digital and Green Transformation in Manufacturing Processes for SMEs” conference held at Bartın Organised Industrial Zone Conference Hall on 25 December 2025. Alongside KOSGEB, the Organised Industrial Zone, BAKKA, the Chamber of Commerce and Industry and the Provincial

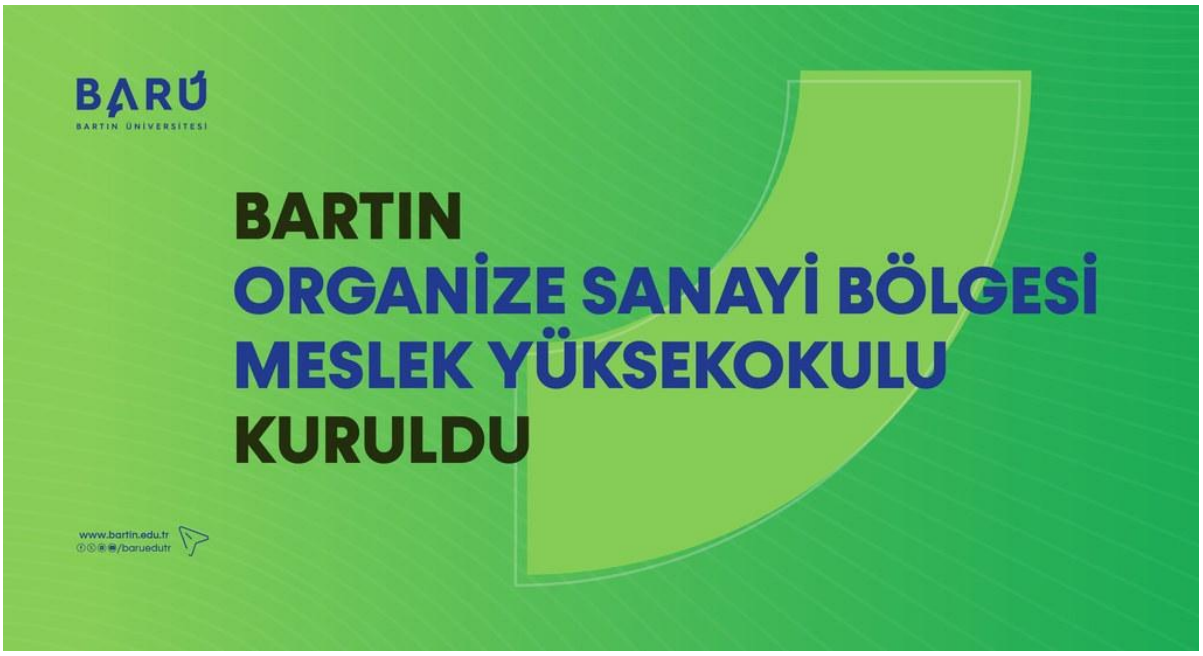
Directorate of Industry and Technology, the University contributed to knowledge sharing for manufacturing enterprises. The programme addressed digital production and the reduction of environmental impacts.

Source: SME conference, 25 December 2025, Project and Technology Office report, PDF pages 37–38

Developing Vocational Education to Meet Industry Needs

In 2025, Bartın University completed work towards establishing the Bartın Organised Industrial Zone Vocational School to educate the skilled workforce required by industry and expand practical vocational education opportunities. The Council of Higher Education (YÖK) approved its establishment. Plans provided for opening the Electronics Technology Programme in the first stage and subsequently submitting a proposal for a Machinery Programme. This structure aimed to strengthen cooperation between industry and higher education, expand practical training opportunities and educate a skilled workforce aligned with industrial needs.

Source: Establishment of Bartın Organised Industrial Zone Vocational School, 17 November 2025



Digital Design and Modelling Training in Engineering

On 4 December 2025, the Department of Electrical and Electronics Engineering organised technical training seminars for students and academic staff in cooperation with FİGES and MathWorks. The three-session programme covered MATLAB fundamentals, FPGA design with MATLAB and model-based design. Examples using Simulink, Simscape and Stateflow introduced dynamic system modelling, control logic development and hardware-oriented design processes. The training enabled engineering students and researchers to engage with digital design tools.

Source: MATLAB, Simulink and FPGA design training seminars



2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 9 through research focusing on industry, innovation and resilient infrastructure. Of the University-affiliated publications associated with this goal, 30 are indexed in Web of Science and 42 in Scopus.

Three-Dimensional Manufacturing and Energy-Efficient Construction Materials

A team including Prof. Osman Gençel from the Department of Civil Engineering won a gold medal at TÜRKPATENT ISIF'25 for the project “Production and Characterisation of Thermally Energy-Efficient 3D Layered Artificial Aggregates and 3D Concrete Printing”. Announced in September 2025, the work involved researchers from Düzce, Karadeniz Technical and Fırat universities and an industry representative from Fibrobeton. Undertaken as an SBB specialisation project, the research combines advanced manufacturing techniques with the functional properties of construction materials.

Source: Gold medal for the three-dimensional aggregate and concrete project, 24 September 2025



Artificial Intelligence and Financial Decisions in Textile SMEs

Asst. Prof. Aslı Çillioğlu Karademir's research, published in the International Journal of Accounting and Economics Studies in 2025, was based on interviews with finance managers from seven textile businesses in İstanbul. It examined the use of artificial intelligence in cash flow, customer risk and external financing decisions. The findings indicate that, alongside reductions in some financial dependencies, new dependencies on software and data providers may arise. The research addresses the management dimension of digitalisation in industry.

Source: https://doi.org/10.14419/w8ct1e09

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Website: www.sciencepubco.com/index.php/IJAES
https://doi.org/10.14419/w8ct1e09
Research paper

Managing Financial Dependence Through AI: A Resource Dependence Theory-Based Study in Textile SMEs

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Abstract

This qualitative study explores how finance managers in textile SMEs utilize artificial intelligence (AI) to manage financial resource dependence, framed within the lens of Resource Dependence Theory (RDT), providing preliminary insights in an area where qualitative research remains scarce. Conducted through in-depth interviews with AI-using finance managers from seven textile enterprises based in Istanbul, Türkiye, the research investigates how AI influences access to and reliance on external financial resources such as short-term loans, leasing, and supplier credit. The findings reveal that AI-supported decision-making contributes to strategic financial planning, reduces dependence on short-term credit, and enables proactive resource management. Themes such as data-driven investment timing, AI-based customer risk scoring, and internal cash flow optimization emerged from the analysis. The study also highlights the critical role that managerial competence in leveraging AI plays in transforming traditional financial behavior and dependency structures. By taking into account sector-specific constraints such as foreign exchange input costs and seasonal demand fluctuations, this study extends the theoretical application of RDT in the context of digital finance. While AI may reduce certain types of financial dependency, it may also introduce new forms of technology and data reliance that require deliberate managerial oversight. The research findings suggest that SMEs attempting to reduce their financial exposure with the help of AI are developing a reliance on software companies. This dependency is expected to increase over time, potentially limiting businesses' ability to make critical decisions.

Keywords: *Resource Dependence Theory; Financial Dependence; Artificial Intelligence; Textile; SMEs*

3 Social and Institutional Practices

Shared Research Infrastructure

In 2025, the Central Research Laboratory Application and Research Centre (BÜMLAB) provided testing and analysis services to University researchers, other universities and private sector organisations. Offering electron microscopy, spectroscopy, thermal analysis, characterisation and mechanical testing, the centre performed 524.375 hours of analysis on 939 samples. Client companies included Eren Enerji, Fibrobeton, KARDÖKMAK, PAMİR Gıda, Birikim Mühendislik, ESSA Kimya, Akcoat and Şenmak Makine. The distribution of 2025 testing and analysis service revenue is presented below. The table covers laboratory services.

Client institution group	2025 revenue (TRY)
Bartın University	542,345.00
Other universities	582,107.00
Private sector	94,700.00
Total	1,219,152.00

Source: BÜMLAB 2025 Annual Activity Report, revenue distribution, PDF page 26

Technology Development Zone and BARÜTEK

In 2025, Bartın University developed institutional infrastructure for technology transfer, research and development, and entrepreneurship. An area on Ağdacı Campus was designated a Technology Development Zone on 9 July 2025. On 12 November 2025, the Ministry of Industry and Technology approved the establishment of Bartın University Technology Development R&D Joint Stock Company (BARÜTEK), responsible for managing and operating the zone. This structure aimed to strengthen research infrastructure and opportunities for joint university–industry product development.

Source: Technology Development Zone designation and photographs, 9 July 2025

Source: Approval of BARÜTEK's establishment, 12 November 2025



AI-Based Digital Guidance Service

Bartın University (BARÜ) launched the AI-supported BARÜ-ebilge intelligent chat assistant as part of the development of digital services. Providing online information and guidance on learning environments, faculties and departments, the application's software tool trademark was registered in 2025. The initiative supported the development of the University's digital service infrastructure and the protection of trademark rights relating to the application.

Source: Registration of the BARÜ-ebilge software tool trademark, 16 July 2025





Intellectual Property and the Dissemination of Innovation

Patent Applications in 2025 and Examples of Granted Patents

In 2025, Bartın University, acting as applicant, completed 12 patent application procedures: 6 national applications and 6 international PCT applications. This total may include national and international applications for the same invention as separate procedures. Examples of national patent applications are presented below.

Application number	Subject of the invention	Application date in 2025
2025/002151	Hybrid material containing ruthenium nanoparticles and an amine-functional cross-linked copolymer	21 February
2025/002152	Photonic light-filtering and conversion film with adjustable red light emission	21 February
2025/015417	AI-supported UAV for delivering first aid supplies and providing intervention	17 October
2025/016213	Image analysis, classification and identification using topological features	30 October

Source: National and PCT applications in 2025, Project and Technology Office report, PDF pages 144–146

The invention of an LED-illuminated height and weight measuring device for monitoring child development (2024/018320), applied for in 2024, was granted a national patent on 21 March 2025. The hybrid laminated composite armour system (2025/002083) was granted a patent on 21 November 2025. Patent applications, granted patents, trademark rights and invention fair awards are monitored as distinct output categories within the University's intellectual property and innovation activities.

Source: Patent Coordination Unit, patents granted in 2025 and activities

Connecting Researchers and Industry through the R&D Project Market

Bartın University brought together researchers from different countries and 32 provinces of Türkiye at the 8th International R&D Project Market on 20–21 November 2025. The event received 539 applications; 70 projects in the General Category and 30 in the High School Category were selected for exhibition. Primary and secondary school pupils also participated with 56 projects. University and industry representatives took part in evaluation processes, innovative solutions were presented to visitors, and students introduced their work at project stands.

Source: R&D Project Market and event photographs, 20–21 November 2025





Prototyping and Digital Competency Infrastructure in the Specialisation Area

The Smart Prototyping and Control Laboratory and the Digital Competency Training and Application Laboratory for Logistics Applications projects, completed by the end of 2025, developed the University's research and education infrastructure. The first project focused on mechanical components, electronic circuits, intelligent systems and production processes; the second focused on software, design and human–computer interaction.

Source: Specialisation project inventory, Project and Technology Office report, PDF pages 38–39

Reduced Inequalities

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) supported the participation of individuals with special needs in education and social life and the use of University services by groups with different needs. Academic accommodations, accessibility practices, family activities, international student support and inclusive information services were the principal areas of this work. Research examining social exclusion and societal barriers supported the University's approach to inclusion through scientific enquiry.

1 Education and Training Activities

Education and Social Participation for Individuals with Special Needs and Their Families

In 2025, seminars for individuals with special needs and their families were organised through the “Barrier-Free Breathing: Year of the Family Respite and Sharing Camp”. Dr Berat Merih Yetim from the Bartın Provincial Directorate of Health addressed family solidarity, while Asst. Prof. Zeynep Yıldırım from Bartın University addressed physical activity and health among people with disabilities. The programme supported families' access to information and the exchange of care-related experiences.

Coordinated by the Disabled Student Unit and delivered in cooperation with the provincial directorates of Family and Social Services, Health, and Youth and Sports and relevant University units, the camp also included recreation, painting, music and yoga. Activities in the Barrier-Free Living Area supported families in spending time together and engaging socially.

Source: Barrier-Free Breathing camp, seminars and photographs, 2 September 2025





Individual Accommodations in Learning and Examinations

In 2025, the needs of students with special needs were identified through individual interviews and monitored using academic accommodation forms. Arrangements including large-print materials, alternative formats, reader/scribe assistance and separate examination settings were planned according to individual requirements. The student guide and the guide for academic and administrative staff provided a common framework for these processes.

Source: 2025 Institutional Internal Evaluation Report, disadvantaged groups, PDF pages 62–64

Source: Academic accommodation guides and student handbook



açılması planlanmaktadır **[1_OD4]**. Ayrıca 2026 yılı içinde 33 dönüm olarak master planları üzerinde çalışılan Arbaratum-Botanik Park Yeni Destinasyon BARÜ ile entegre doğa yürüyüş yolları çalışmaları devam etmektedir **[2_OD4]**.

Öğrenci memnuniyet anketinde kütüphane memnuniyeti %77,72, "öğrenim faaliyetlerinde kullanılan araç-gereç ve teknoloji memnuniyeti", "öğrenme ortamlarının (derslik, laboratuvar vb.) fiziki koşullarından memnuniyet", "öğrenme ortamlarının (derslik, laboratuvar vb.) sayısı" ve "tesis ve altyapıların (yemekhane, kantin vb.) fiziki koşullarından memnuniyet" ortalaması %73,95'tir (OD4) (syf. 59). KİDT Ziyaret Raporunda kütüphaneden yüksek düzeyde memnuniyet tespit edilmiştir. Performans göstergeleri, KİDT Raporu ve memnuniyet anketlerinin sonuçları Eğitim Öğretim Alt Biriminin gerçekleştirdiği Süreç Performans İzleme toplantısında ele alınmış ve iyileştirme alanları ve yapılması gerekenler tespit edilmiştir (OD4).

KAR'da (2024) "Tesis ve alt yapının ana süreçlerle ilişkilendirilerek nicel ve nitel olarak değerlendirilmesi ve sürekli iyileştirmelerin sistematikleştirilmesi gerekliliği" önerisine ilişkin olarak tesis ve altyapılar, kalite ana süreçleri bazında araştırma, eğitim öğretim, toplumsal katkı ve idari hizmetler kapsamında KİDT (2025) saha ziyaretlerinde incelenmekte ve raporda değerlendirilmektedir. Ayrıca akademik personel, idari personel ve öğrenci memnuniyet anketlerinde tesis ve altyapıya ilişkin sorular ile memnuniyet düzeyleri ölçülmektedir (OD4) (syf. 8) (OD4) (syf. 11) (OD4) (syf. 59). Toplanan veriler her bir ana sürece ilişkin (liderlik yönetişim kalite, eğitim, araştırma, toplumsal katkı) yapılan Süreç Performans İzleme ve Değerlendirme toplantılarında ele alınmaktadır (OD4).

Inclusion and Accessibility in Information Services

The "Inclusive Libraries" poster exhibition and panel, organised by the Department of Information and Records Management on 19 December 2025, jointly addressed migration, poverty, gender and accessibility. Academics from Guidance and Psychological Counselling, Special Education and Sociology also participated in discussions on access to information services for people with diverse needs.

Source: Inclusive Libraries poster exhibition and panel, 19 December 2025





International Students' Adaptation to Education and Daily Life

In 2025, Bartın University provided support for difficulties faced by international students in education and daily life, including language-related challenges. These

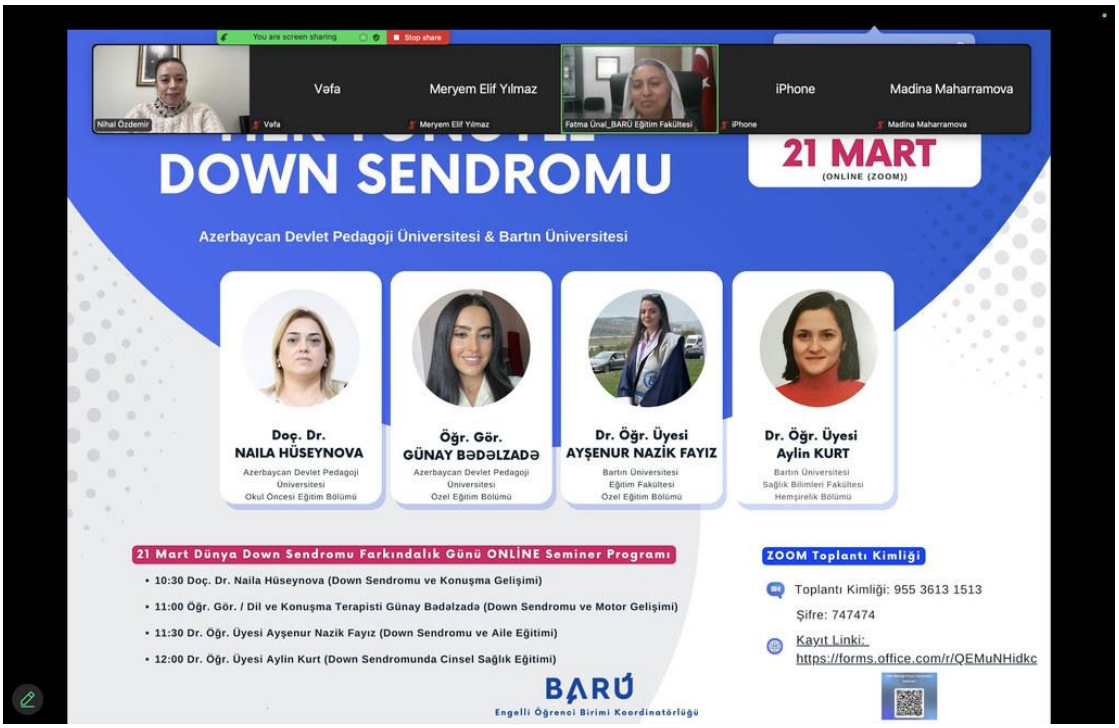
services aimed to facilitate access to University opportunities for students with different educational and linguistic backgrounds.

Source: 2025 Institutional Internal Evaluation Report, disadvantaged groups, PDF pages 62–64

International Awareness Seminar on Down Syndrome

The Disabled Student Unit organised the “Down Syndrome from Every Perspective” seminar in cooperation with Azerbaijan State Pedagogical University in 2025 to mark World Down Syndrome Day. Academics from both universities addressed Down syndrome from different disciplinary perspectives. The seminar combined information sharing on individuals with special needs with international academic cooperation as part of education and awareness activities.

Source: Down Syndrome from Every Perspective seminar



Awareness and Volunteering through Inclusive Sport

Bartın University hosted “Parafest'25: Awareness and Volunteering through Inclusive Sport” on 15–18 December 2025. Supported by the Ministry of Youth and Sports' “We Are Volunteers” initiative, the programme involved 357 students, including 63 with special needs. Wheelchair basketball, wheelchair table tennis, sitting volleyball and goalball enabled students to experience Paralympic sports. Bringing together students from different universities, the programme emphasised inclusive participation, volunteering and shared learning.

Source: Parafest'25 Awareness and Volunteering through Inclusive Sport



2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 10 through research focusing on reduced inequalities and social inclusion. Of the University-affiliated publications associated with this goal, 3 are indexed in Web of Science and 4 in Scopus.

Peer Relationships and Students' Experiences of Social Exclusion

Research published in 2025 by Ahmet Enes Sağın from Bartın University's Faculty of Sports Sciences and Mehmet Akif Yücekaya examined peer interaction and perceptions of social exclusion in physical education classes among 541 secondary and high school students. Findings assessed through structural equation modelling identified a negative relationship between peer interaction and social exclusion. The study provided findings relevant to developing inclusive learning environments that support students' social participation.

Source: http://cuspor.cumhuriyet.edu.tr/tr/pub/article/1761063

Sivas Cumhuriyet University Journal of Sports Sciences, 6(3): 229-237, 2025

Sivas Cumhuriyet University
Journal of Sport Sciences

| cuspor.cumhuriyet.edu.tr | Founded: 2020 Available online, ISSN: 2717-8919 Publisher: Sivas Cumhuriyet Üniversitesi

The Impact of Teacher-Centered Experience and Peer Interaction on Social Exclusion in Physical Education Classes

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Research Article

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ABSTRACT

The purpose of this study is to examine the effects of teacher-centered instructional practices and levels of peer interaction experienced by students in physical education (PE) classes on their perceptions of social exclusion. The research was conducted with a total of 541 students enrolled in middle and high schools across Türkiye during the 2024–2025 academic year. Data were collected using relevant subdimensions of the "Validity and Reliability Study of the Middle School Physical Education Enjoyment Questionnaire" and the "Adolescent Ostracism Experiences Scale Structural Equation Modeling (SEM) was employed for data analysis to test the predictive power of the independent variables (Teacher-Centered Experience and Peer Interaction) on the dependent variable (Social Exclusion). The findings revealed that peer interaction had a significant negative effect on social exclusion ($\beta = -0.34$; $p < .01$). In contrast, teacher-centered experience did not significantly predict social exclusion ($p > .05$). The research results clearly demonstrate that the peer relationships established by students play a more decisive role in shaping the perception of social exclusion compared to the instructional structure itself. This finding indicates that interventions aimed at reducing social exclusion in the context of physical education should be structured to enhance peer interaction (e.g., through strategies such as cooperative learning and peer tutoring) rather than relying solely on teacher-focused arrangements.

Keywords: Physical education, Social exclusion, Teacher-centered experience, Peer interaction, Structural equation modeling

Student Research on Stigma and Social Exclusion

Sociology project No. 1919B012412802, supported under TÜBİTAK 2209-A, focused on experiences of stigma, discrimination and social exclusion among individuals with achondroplasia/dwarfism. Scheduled for 8 April–8 December 2025, the research aimed to understand societal barriers encountered as a result of physical differences.

Source: TÜBİTAK 2209-A project inventory, 2025, PDF pages 127–128

		Empati Ve Merhametin Aracı Rolü							
229	*1919B012467659*	*Otizmli Çocuğa Sahip Ebeveynlerin Psikososyal İhtiyaçları, Stres Ve Destek Kaynakları: Kırsal Ve Kentsel Farklılıkların İncelenmesi*	*2209 A*	*PSİKOLOJİ PR.*	*Öğrenci*	*İrade Salğın*	*9000 TL*	*1.04.2025*	*1.03.2026*
230	*1919B012428473*	*Romantik İlişkilerde Ayrılık Kaygısı İle Obsesif Kompulsif Belirtiler Arasındaki İlişkide Kendini Açma Davranışının Düzenleyici Rolü*	*2209 A*	*PSİKOLOJİ PR.*	*Öğrenci*	*Rümeysa Işık*	*5.500,00*	*8.04.2025*	*8.04.2026*
231	*1919B012475392*	*Lgbt+ Bireylere Karşı Nefrete Yönelik Tutumda Kendini Kabulün Etkisi Ve Aile İçi İletişimin Aracı Rolü*	*2209 A*	*PSİKOLOJİ PR.*	*Öğrenci*	*Tuğba Hatun Özdemir*	*9.000.00*	*8.04.2025*	*8.04.2026*
232	*1919B012416238*	*Üniversite Öğrencisi (Çalışmayan) Ve (Kısmi Zamanlı Çalışan) Bireyler Arasında Nomofobi Ve Depresyon Arasında Yaşam Doyum Ve Uykuyu Geciktirme Davranışının Aracı Rolü*	*2209 A*	*PSİKOLOJİ PR.*	*Öğrenci*	*Zehra ERBEK*	*8.750 TL*	*1.04.2025*	*1.04.2026*
233	*1919B012412802*	*Akondroplazili/Cüceliği Olan Bireylerin Damgalanma, Ayrımcılık Ve Sosyal Dışlanma*	*2209 A*	*SOSYOLOJİ PR.*	*Öğrenci*	*Gamze BOZDAĞ*	*9.000 TL*	*8.04.2025*	*8.12.2025*

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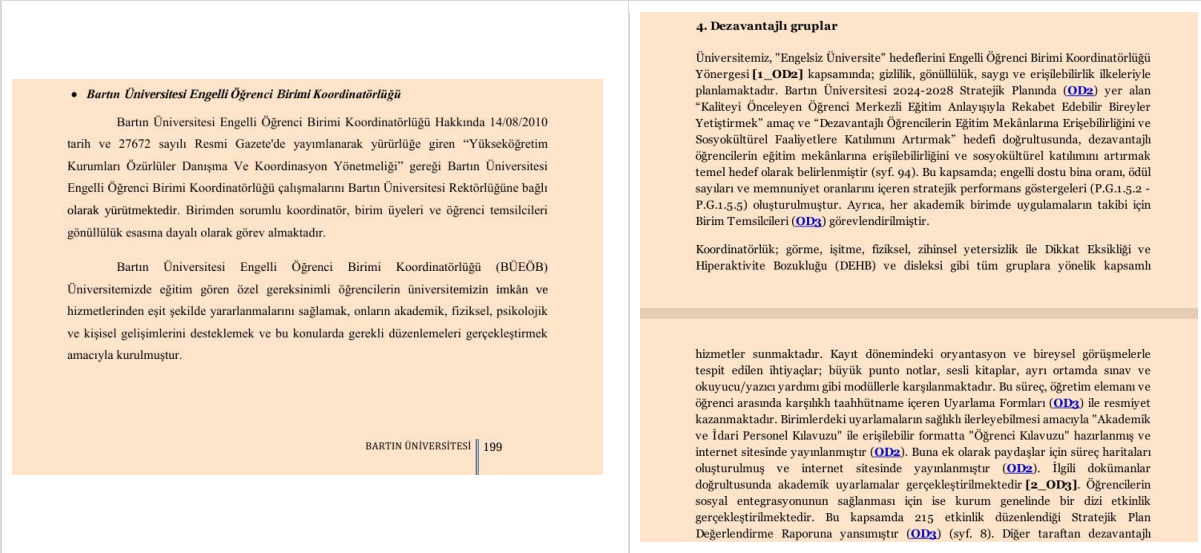
3 Social and Institutional Practices

Disabled Student Unit and Academic Support Structure

The Disabled Student Unit Coordination Office, reporting to the Rectorate, is responsible for providing academic, physical, psychological and personal development support to enable students with special needs to benefit equally from University facilities and services. Support processes are conducted with academic unit representatives and informed by consultations on students' individual needs.

Source: Institutional remit of the Disabled Student Unit, 2025 University Annual Activity Report, PDF page 212

Source: 2025 Institutional Internal Evaluation Report, disadvantaged groups, PDF pages 62–64



• ***Bartın Üniversitesi Engelli Öğrenci Birimi Koordinatörlüğü***

Bartın Üniversitesi Engelli Öğrenci Birimi Koordinatörlüğü Hakkında 14/08/2010 tarih ve 27672 sayılı Resmi Gazete'de yayımlanarak yürürlüğe giren "Yükseköğretim Kurumları Özürlüler Danışma Ve Koordinasyon Yönetmeliği" gereği Bartın Üniversitesi Engelli Öğrenci Birimi Koordinatörlüğü çalışmalarını Bartın Üniversitesi Rektörlüğüne bağlı olarak yürütmektedir. Birimden sorumlu koordinatör, birim üyeleri ve öğrenci temsilcileri gönüllülük esasına dayalı olarak görev almaktadır.

Bartın Üniversitesi Engelli Öğrenci Birimi Koordinatörlüğü (BÜEÖB) Üniversitemizde eğitim gören özel gereksinimli öğrencilerin üniversitemizin imkân ve hizmetlerinden eşit şekilde yararlanmalarını sağlamak, onların akademik, fiziksel, psikolojik ve kişisel gelişimlerini desteklemek ve bu konularda gerekli düzenlemeleri gerçekleştirmek amacıyla kurulmuştur.

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4. Dezavantajlı gruplar

Üniversitemiz, "Engelsiz Üniversite" hedeflerini Engelli Öğrenci Birimi Koordinatörlüğü Yönergesi **[1_OD2]** kapsamında; gizlilik, gönüllülük, saygı ve erişilebilirlik ilkeleriyle planlamaktadır. Bartın Üniversitesi 2024-2028 Stratejik Planında (OD2) yer alan "Kaliteyi Önceleyen Öğrenci Merkezli Eğitim Anlayışıyla Rekabet Edebilir Bireyler Yetiştirmek" amaç ve "Dezavantajlı Öğrencilerin Eğitim Mekânlarına Erişebilirliğini ve Sosyokültürel Faaliyetlere Katılımını Artırmak" hedefi doğrultusunda, dezavantajlı öğrencilerin eğitim mekânlarına erişilebilirliğini ve sosyokültürel katılımını artırmak temel hedef olarak belirlenmiştir (syf. 94). Bu kapsamda; engelli dostu bina oranı, ödül sayıları ve memnuniyet oranlarını içeren stratejik performans göstergeleri (P.G.1.5.2 - P.G.1.5.5) oluşturulmuştur. Ayrıca, her akademik birimde uygulamaların takibi için Birim Temsilcileri (OD3) görevlendirilmiştir.

Koordinatörlük; görme, işitme, fiziksel, zihinsel yetersizlik ile Dikkat Eksikliği ve Hiperaktivite Bozukluğu (DEHB) ve disleksi gibi tüm gruplara yönelik kapsamlı hizmetler sunmaktadır. Kayıt dönemindeki oryantasyon ve bireysel görüşmelerle tespit edilen ihtiyaçlar; büyük punto notlar, sesli kitaplar, ayrı ortamda sınav ve okuyucu/yazıcı yardımı gibi modüllerle karşılanmaktadır. Bu süreç, öğretim elemanı ve öğrenci arasında karşılıklı taahhütname içeren Uyarlama Formları (OD3) ile resmiyet kazanmaktadır. Birimlerdeki uyarlamaların sağlıklı ilerleyebilmesi amacıyla "Akademik ve İdari Personel Kılavuzu" ile erişilebilir formatta "Öğrenci Kılavuzu" hazırlanmış ve internet sitesinde yayınlanmıştır (OD2). Buna ek olarak paydaşlar için süreç haritaları oluşturulmuş ve internet sitesinde yayınlanmıştır (OD2). İlgili dokümanlar doğrultusunda akademik uyarlamalar gerçekleştirilmektedir **[2_OD3]**. Öğrencilerin sosyal entegrasyonunun sağlanması için ise kurum genelinde bir dizi etkinlik gerçekleştirilmektedir. Bu kapsamda 215 etkinlik düzenlendiği Stratejik Plan Değerlendirme Raporuna yansımıştır (OD3) (syf. 8). Diğer taraftan dezavantajlı

Accessibility in Academic Programmes

In 2025, seven Bartın University programmes received the Barrier-Free University Programme Award from the Council of Higher Education (YÖK). Alongside programme-level accessibility work, the University continued improvements to learning environments and opportunities for social participation.

Source: Seven programmes receiving the Barrier-Free University Programme Award, 25 December 2025





BARTIN ÜNİVERSİTESİ

ENGELSİZ ÜNİVERSİTE ÖDÜLLERİ 2025

kapsamında aşağıdaki alanlarda nişan ödülünü almaya hak kazanmıştır.

Prof. Dr. Erol ÖZVAR
YÖK Başkanı

ENGELLİ BAKIMI VE REHABİLİTASYON PROGRAMI
ÇOCUK GELİŞİMİ PROGRAMI
İNGİLİZCE ÖĞRETMENLİĞİ PROGRAMI (İNGİLİZCE)
REHBERLİK VE PSİKOLOJİK DANIŞMANLIK PROGRAMI

ANTRENÖRLÜK EĞİTİMİ PROGRAMI
SİYASET BİLİMİ VE KAMU YÖNETİMİ PROGRAMI
SOSYAL HİZMET PROGRAMI

Monitoring Accessibility and Social Participation

In 2025, Bartın University monitored the participation of disadvantaged groups, physical accessibility and service satisfaction through performance indicators. Results for these indicators are presented below.

Indicator	Reported value for 2025
Activities for the social integration of disadvantaged groups	215 activities
Disability-friendly buildings as a proportion of all campus buildings	33%
Satisfaction of people with disabilities with University services	81.97%

Source: Accessibility and social participation indicators, 2025, PDF page 274

Bartın University spent TRY 1,562,480 on “Ensuring Accessibility for People with Disabilities” in 2025. Relevant financial information was made public, supporting the traceability of resource use for accessibility.

Source: Accessibility expenditure in 2025, budget results, PDF page 234

Sustainable Cities and Communities

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook work to research and document regional cultural heritage, share artistic production with the public and transmit traditional knowledge. Archaeological excavations, a digital heritage project, local culture publications, exhibitions and science communication activities constituted the cultural dimension of the University's engagement with the city. Campus open spaces, transport and housing infrastructure were also addressed in the context of sustainable living environments.

1 Education and Training Activities

Knowledge Sharing on the Digital Documentation of Cultural Heritage

In 2025, the University hosted the second meeting of the KA220 DigiArcheoSpace Erasmus+ project, in which BARÜ's Departments of Information and Records Management and Art History are partners. Sessions involving international partners shared methods for documenting archaeological heritage and preserving and presenting it through digital technologies. The programme also included a meeting with Filyos Municipality and a technical visit to the ancient city of Tios. The activity combined interdisciplinary learning and local cooperation in cultural heritage management.

Source: DigiArcheoSpace activities and photographs, 29 April 2025





Traditional Boatbuilding and Science Communication

A Science Café gathering held in Kurucaşile in 2025 with local residents and public representatives examined wooden boatbuilding and traditional craft knowledge

alongside scientific approaches. The event shared knowledge and experience of local production culture with the community.

Source: Kurucaşile Science Café gathering and photographs, 8 October 2025



Opportunities to Participate in Traditional Arts and Folk Dance

In 2025, Bartın University (BARÜ) planned a free folk dance course to sustain traditional cultural values and support University members' participation in cultural and social activities. Planned for two days per week in the Faculty of Sports Sciences Folk Dance Hall, the programme aimed to enable participants to learn regional dances and come together through shared cultural activities.

Source: Free folk dance course announcement, 10 December 2025

Knowledge Sharing on Cities and Logistics

An online “Cities and Logistics” panel was held in September 2025 under the coordination of the Faculty of Engineering, Architecture and Design. Academics from different universities addressed urban logistics and mobility, city evacuation during natural disasters, intelligent transport systems and Bartın's traffic structure. Assessing urban transport and logistics needs through different areas of expertise, the programme provided a setting for academic knowledge sharing on urban planning and services.

Source: Cities and Logistics panel



Applied Teaching and Student Designs in Urban Planning

Neighbourhood designs prepared in PEM349 City and Regional Planning, taught by Dr Rukiye Gizem Öztaş Karlı in the Department of Landscape Architecture, were exhibited in the departmental foyer on 12–26 May 2025. Students' work, developed on the basis of different urbanisation models, enabled theoretical planning knowledge to be applied in design. The exhibition shared course outputs within the University.

Source: Neighbourhood Design Exhibition



Calligraphy Training to Sustain Traditional Arts

In 2025, the Continuing Education Application and Research Centre organised Hüsn-i Hat calligraphy courses for students, University staff and the Bartın community. Taught by Asst. Prof. Ali Durmuş from the Faculty of Theology, the two courses had 32 and 36 participants, respectively. By sharing traditional calligraphy knowledge and skills with participants from outside the University, the training supported the continuation of cultural heritage through education.

Source: BÜNSEM 2025 Annual Activity Report

2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 11 through research focusing on sustainable cities and liveable settlements. Of the University-affiliated publications associated with this goal, 41 are indexed in Web of Science and 32 in Scopus.

Archaeological Research and Conservation at the Ancient City of Tios

Excavations in the eastern necropolis of the ancient city of Tios in Filyos continued in 2025 under Prof. Şahin Yıldırım from the Department of Art History on behalf of BARÜ. Meetings were held with local public administrators on conserving the ancient city and developing its tourism potential. The work supported the investigation and conservation of the region's archaeological assets through scientific methods.

Source: Tios ancient city excavations and conservation work, 31 October 2025





Documenting the Gaba Headscarf and Woodblock Printing Tradition

Doctoral student Elif Tuzcuoğlu Yiğit's article “The Mantle of Bartın's Women: The Traditional Gaba Headscarf”, published in the University's Çeşm-i Cihan journal on 25 July 2025, examined the regional headscarf and woodblock printing tradition. A literature review and oral accounts collected from three people familiar with the tradition documented its techniques, materials, patterns and cultural meanings. The research offered recommendations for documenting local craft knowledge and transmitting it to future generations.

Source: https://doi.org/10.30804/cesmicihan.1704417

Tuzcuoğlu Yiğit, Elif. "Bartınlı Kadınların Mantosu: Geleneksel Gaba Yazma".
Çeşm-i Cihan: Tarih Kültür ve Sanat Araştırmaları E-Dergisi, 12/1 (Temmuz 2025), 45-58



Çeşm-i Cihan:
Tarih Kültür ve Sanat Araştırmaları E - Dergisi
ISSN: 2149–5866
Sayı: 12 (Temmuz 2025), 45-58, TÜRKİYE
DOI: 10.30804/cesmicihan.1704417
Araştırma Makalesi

BARTINLI KADINLARIN MANTOSU: GELENEKSEL GABA YAZMA

Elif TUZCUOĞLU YİĞİT *

Öz: : Bartın geleneksel yazmaları, özellikle "gaba yazma" olarak bilinen siyah zemin üzerine büyük çiçekli yazmalarıyla Anadolu baskı yazmacılığında önemli bir yere sahiptir. "Bartınlı kadınların mantosu" olarak ifade edilen "gaba yazma" ilin kültürel kimliğini, kadınların sosyal yaşamını yansıtması bakımından korunması ve gelecek nesillere aktarılması gereken önemli bir kültürel mirastır. Bu çalışma, unutulmaya yüz tutmuş Bartın ağaç baskı sanatı ve ilin yöresel kimliğinin simgesi olan "gaba yazma"nın kültürel bağlamı hakkında bilgiler içermektedir. Bununla birlikte yörenin geçmişte önemli bir el sanatı olan ağaç baskı sanatı ile Bartın yöresine özgü olan geleneksel "gaba yazma"nın geçmişi, günümüzdeki durumu ve geleceği üzerine değerlendirmeler yapılmıştır. Bu çalışma söz konusu kültürel değerlerin korunması ve gelecek nesillere aktarılması için bir çağrı niteliği taşımaktadır. Yörenin önemli kültürel değerlerinden olan Bartın yazması ve geleneksel baskı sanatının halk bilimi literatürüne kazandırılmasının hedeflendiği bu çalışma; hem yörenin önemli bir kültürel mirasının korunmasına hem de bu alanda yapılan az sayıdaki çalışmaya akademik katkı sağlayacaktır. Makale, literatür taraması ve derlemeler neticesinde oluşturulmuştur. Günümüzde yörede unutulmaya yüz tutmuş el sanatını icra eden bir usta olmadığı için geleneksel ağaç baskı hakkında bilgisi olan en yetkin üç kişiyle görüşme yapılmıştır. Bu görüşmelerde geleneksel sanatın teknikleri, kullanılan malzemeler, desenlerin anlamları, ağaç baskı sanatının günümüzdeki durumu ve "gaba yazma"nın kültürel anlamı hakkında bilgi toplanmıştır. Bartın'ın unutulmaya yüz tutmuş iki önemli kültürel değerinin son durumları kayıt altına alınmış olup araştırma sonucunda gelecek nesillere aktarılması yönünde neler yapılabileceği konusunda öneriler içermektedir.
Anahtar Kelimeler: Geleneksel El Sanatı, Ağaç Baskı Sanatı, Bartın, Geleneksel "Gaba Yazma", Motif ve Desen.

Rural and Thematic Tourism Potential in Ulus District

Asst. Prof. Hande Uyar Oğuz's 2025 study assessed thematic tourism opportunities in Bartın's Ulus district and its villages through observation, semi-structured interviews and document analysis. Themes included history and culture, rural life, local food, cave tourism, outdoor sports and walking routes. The study developed recommendations for destination planning sensitive to local values and for integrated tourism routes.

Source: http://doi.org/10.33083/joghat.2025.479

JOURNAL OF GASTRONOMY HOSPITALITY AND TRAVEL

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Received: 26.11.2024 Accepted: 23.02.2025

Journal of Gastronomy, Hospitality and Travel, 2025, 8(1), 55-72

Araştırma Makalesi (Research Article)

BARTIN İLİ ULUS İLÇESİNİN EKOTURİZM KÖY ODAKLI TEMATİK TURİZM POTANSİYELİNİN İNCELENMESİ (AN ANALYSIS OF THE ECOTOURISM POTENTIAL WITH A VILLAGE-CENTERED THEMATIC FOCUS IN THE ULUS DISTRICT OF BARTIN PROVINCE)

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Özet

Bu çalışmanın temel amacı, turizm destinasyonu olma potansiyeli taşıyan Bartın İli Ulus İlçesi ve köylerinde tematik turizm türlerini ortaya koymak ve bölgenin turizm potansiyeline yönelik uygulama stratejilerini belirlemektir. Bu bağlamda, gözlem, yarı yapılandırılmış görüşmeler ve belge analizlerine dayalı bir vaka çalışması yöntemi kullanılmıştır. Araştırma bulguları ilçedeki turizm potansiyelinin, tarihi ve kültürel tema, kırsal yaşam deneyimi, mağara turizmi, fiziksel aktivite, doğa sporları ve manzara temalarında somutlaştığını göstermektedir. Bu bağlamda öncelikli geliştirilmesi gereken alt temaların ev pansiyonculuğu, çiftlik turizmi, yöresel yiyecekler, bilimsel ve sportif mağara turizmi, doğal anıt ağaç tünel, bisiklet turizmi, doğa fotoğrafçılığı ve trekking olduğu ortaya çıkmıştır. Bu bağlamda Ulus İlçesi UNWTO tarafından belirlenen 15 tematik turizm grubunun dokuzunu karşılamaktadır. Sonuç olarak merkez ilçe ve köylerinde zengin kültürel değerlerin geliştirilmesi, ana ve alt temalar odağında doğru bir destinasyon planlaması ve pazarlama karmasının oluşturulması, köylerde tematik turizm türlerini destekleyecek bütüncül turistik gezi rotalarının oluşturulması önerilmektedir. Ayrıca Ulus ilçesinin Amasra-Safranbolu aksı arasında yer alması, bireysel ve grup tur programlarında bir destinasyon olarak değerlendirilmesi gerekliliğini ortaya koymaktadır.

Anahtar Kelimeler: Tematik Turizm, Ekoturizm, Ekoköy, Bartın, Ulus İlçesi

3 Social and Cultural Practices

In 2025, an exhibition featured coursework by students in the Graphic Design Programme at Bartın Vocational School, together with designs that had received awards in a poster competition. More than 100 works were presented to art audiences on the ground floor of the vocational school building, with the exhibition planned to remain open for one week.

Source: Department of Design student exhibition and photographs, 2 June 2025





Library Services and Access to Regional Knowledge

The Department of Library and Documentation aims to meet the information and document needs of external researchers wishing to use the library, alongside University members. Print and electronic collections and information services support the University's infrastructure for access to scientific and cultural knowledge.

Source: Library 2025 Annual Activity Report, PDF pages 5 and 38

The online article collection of the Bartın and Region History and Culture Research Application and Research Centre brings together research on the region. Links to publications on topics including the Gaba headscarf, local traditions, the Bartın River and archaeological assets facilitate the discovery of regional knowledge.

Source: BAYTAM article collection on Bartın and the surrounding region



BARTIN ÜNİVERSİTESİ
Bartın Ve Yöresi Tarih-Kültür Araştırmaları Uygulama Ve Araştırma Merkezi

Bartın ve Yöresine İlişkin Makale Külliyatı

Bu sayfada Çeşm-i Cihan: Tarih, Kültür ve Sanat Araştırmaları E-Dergisinde 2014 yılından bu yana Bartın ve yöresi dil, kültür ve tarihi üzerine yayımlanmış tüm yayınlar sunulmaktadır. Sıralama yeniden eskiye doğrudur.

- Dilek, Mine. "**Kültürel Bir Kurumun İnşasında Yerel-Merkez İlişkisi: Akçakoca Halkevi (1935–1949)**". Çeşm-i Cihan: Tarih Kültür ve Sanat Araştırmaları Dergisi E-Dergisi 12/Dr. Öğr. Ü. Özgür TOKAN Özel Sayısı (Aralık 2025), 24-39.
  Bu çalışmada Cumhurbaşkanlığı Devlet Arşivleri Başkanlığı'nda yer alan yazışmalar çerçevesinde Akçakoca Halkevi binasının inşa sürecinde yaşanan gelişmeler ele alınmaktadır. Okumak için tıklayınız.

- Mutlu, Mustafa. "**Bartın'da Çıkan Kaynarca Dergisi Üzerine Bir İnceleme**". Çeşm-i Cihan: Tarih Kültür ve Sanat Araştırmaları Dergisi E-Dergisi 12/Dr. Öğr. Ü. Özgür TOKAN Özel Sayısı (Aralık2025), 13-23.
  Bu çalışma, 1948-1949 yılları arasında Bartın'da yayımlanmış olan Kaynarca dergisini tanıtmayı ve içerdiği bilgiler bağlamında Bartın tarihine ışık tutmayı amaçlamaktadır. Okumak için tıklayınız.

- Tuzcuoğlu Yiğit, Elif. "**Bartınlı Kadınların Mantosu: Geleneksel Gaba Yazma**". Çeşm-i Cihan: Tarih Kültür ve Sanat Araştırmaları Dergisi E-Dergisi 12/1 (Temmuz 2025), 45-58.
  Bu çalışma, unutulmaya yüz tutmuş Bartın ağaç baskı sanatı ve ilin yöresel kimliğinin simgesi olan "gaba yazma"nın kültürel bağlamı hakkında bilgiler içermektedir. Okumak için tıklayınız.

4 Local Partnerships and a Sustainable Campus

Improvements to Open Spaces and Transport Infrastructure

In 2025, campus open space and transport infrastructure works included improvements to vehicular and pedestrian routes and paving of access routes and communal areas.

Source: Construction and Technical Affairs 2025 Annual Activity Report, campus infrastructure, PDF page 17

Promoting Cycling

In 2025, a call for participation in the BARÜ Cycling Festival aimed to encourage cycling on campus and raise awareness of sustainable transport.

Source: BARÜ Cycling Festival announcement, 23 September 2025



Institutional Infrastructure for Staff Housing

Staff residences included in Bartın University's physical infrastructure in 2025 formed part of its institutional housing provision for employees.

Source: 2025 University Annual Activity Report, staff residences, PDF page 51

Responsible Consumption and Production

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook work on resource efficiency, source-separated waste collection, safe waste management and recovery within the circular economy. The Zero Waste Implementation Directive regulated responsibilities and record-keeping processes, while annual waste data were published openly. Composting training, research on using waste in new construction materials, the biopore installation and the Smart Logistics Management System represented different dimensions of this work.

1 Education and Awareness Activities

Resource Management and Zero Waste Training for Probationary Civil Servants

On 13 February 2025, Branch Manager Halil Kır delivered Smart Logistics Management System (ALYS) and Zero Waste training as part of probationary civil servant training. The sessions supported newly appointed University personnel in becoming familiar with institutional materials management and waste procedures. Responsibilities for resource use were thereby incorporated into staff induction.

Source: ALYS and Zero Waste training for probationary civil servants, 13 February 2025





Organic Waste Recovery and Composting Training

In 2025, the Organic Agriculture Programme and the Green Collar Club undertook practical activities on organic waste recovery. At a workshop delivered with BALMAR, organic waste obtained from a supermarket chain was composted with plant waste

and other suitable materials. Used plastic crates were also repurposed as composting containers.

Source: BALMAR composting workshop report, 10 December 2025





On 26 November 2025, Organic Agriculture students and pupils from Bartın Umut Special Education Primary School joined a composting workshop in the teaching greenhouses on Ağdacı Campus. Under the responsibility of Prof. Ayşe Genç Lermi, participants practised the stages of compost preparation, with the resulting fertiliser intended for use in greenhouse activities. A separate workshop at Ağdacı Primary School in May also demonstrated to children how plant waste can be converted into fertiliser.

Source: Composting workshop in the teaching greenhouses, 26 November 2025

Source: Composting workshop with primary school pupils, 12 May 2025





Student Participation in Combating Plastic Pollution

Second-year Landscape Architecture students participated in the awareness event “Take Care of Your Environment: Combating Plastic Pollution”, organised by the Bartın Provincial Directorate of Environment, Urbanisation and Climate Change for World Environment Day in 2025. The event enabled students to engage with plastic pollution in the context of local environmental work and participate in awareness activities beyond the University.

Source: Awareness event on combating plastic pollution



Sustainability-Focused Teaching in the Textile Sector

The Department of Textile Engineering's TEK469 European Union Textile Sustainability Strategy course was opened to students from other departments in the spring semester of the 2024–2025 academic year. Through this four-ECTS course, sustainability in the textile sector became part of the teaching opportunities available to students in different programmes.

Source: Spring semester 2024–2025 electives open to other departments, page 4

2024-2025 Akademik Yılı Bahar Döneminde Açılan Bölüm Dışı Seçmeli Dersler ve Kontenjanlar

Akademik Birim	Bölüm/Program	Dersin Kodu	Dersin Adı	AKTS	2024-2025 Bahar Dönemi Kontenjanları		Dersin Verileceği Yerleşke
					N.Ö.	İ.Ö.	
Mühendislik, Mimarlık ve Tasarım Fakültesi	Bilgisayar Mühendisliği	BSM252	Ptyhon Programlama	4	50	0	Kutlubey Yerleşkesi
	Makine Mühendisliği	MAK320	Robotlar	5	25	0	
	Elektrik-Elektronik Mühendisliği	EEM485	Yenilenebilir Enerji Kaynakları	5	25	0	
	Peyzaj Mimarlığı	PEM334	Akıllı Kentler	4	25	0	
		PEM356	Engelsiz Mekan Standartları	4	25	0	
	Tekstil Mühendisliği	TEK469	Avrupa Birliği Tekstil Sürdürülebilirlik Stratejisi	4	50	0	
		MUH402	Çevre ve Enerji	4	50	0	
		MUH407	Etik ve Ahlak	4	50	0	
		THU300	Topluma Hizmet Uygulamaları	4	50	0	
	Çevre Mühendisliği	CEV445	İklim Değişikliği	4	30	30	
	İnşaat Mühendisliği	INS126	Afet Yönetimi	4	25	25	
	Metalurji ve Malzeme Mühendisliği	MLZ314	Akıllı Malzemeler	4	30	30	
		MLZ409	Nanomalzemeler ve Nanoteknoloji	4	30	30	
	TOPLAM DERS VE KONTENJAN SAYISI		13		465	115	
					580		

Promoting Reuse through Swap Markets

Swap markets organised by the Department of Landscape Architecture on 13 May and 29 September 2025 supported the reuse of items in usable condition. The events brought together academic staff and students to exchange drawing tools, stationery, books, clothing and household goods. Items were required to be clean and usable, and

participation was based on a non-profit approach. The events promoted longer product lifespans, efficient resource use and a culture of sharing among students.

Source: News text





2 Research Activities

In 2025, Bartın University contributed to the knowledge base for SDG 12 through research focusing on efficient resource use and sustainable production and consumption. Of the University-affiliated publications associated with this goal, 29 are indexed in Web of Science and 37 in Scopus.

Use of Treatment Sludge and Eggshells in Construction Materials

Research by Gizem Bakıroğlu and Prof. Ali Yaraş, published in Construction and Building Materials in 2025, examined the combined use of drinking water treatment sludge and eggshells in porous brick production. Treatment sludge replaced clay, while eggshells were used as a pore-forming agent. Strength, water absorption and thermal properties were measured under different mixing and firing conditions. The study provided experimental findings on converting waste into secondary raw materials and reducing demand for natural resources.

Source: http://doi.org/10.1016/j.conbuildmat.2025.143708


Utilization of drinking water treatment sludge and eggshells as clay substitute in porous brick manufacturing: Target zero waste


Construction and Building Materials 495 (2025) 143708

Contents lists available at ScienceDirect

Construction and Building Materials

journal homepage: www.elsevier.com/locate/conbuildmat

Utilization of drinking water treatment sludge and eggshells as clay substitute in porous brick manufacturing: Target zero waste

Gizem Bakiroglu , Ali Yaras

ARTICLE INFO

ABSTRACT

Waste Glass as a Secondary Raw Material in Concrete Production

Research co-authored by Prof. Osman Gençel and published in Innovative Infrastructure Solutions on 19 April 2025 examined waste glass powder and glass sand in concrete production. Seventeen mixes using alternative components in place of cement and natural sand were assessed for workability, density, compressive strength, modulus of elasticity and water absorption. The study supported materials development research on converting waste glass into secondary raw materials and reducing natural resource use.

Source: https://doi.org/10.1007/s41062-025-02011-z

Innovative Infrastructure Solutions (2025) 10:179
https://doi.org/10.1007/s41062-025-02011-z

TECHNICAL PAPER

Waste glass as a substitution for binder and sand in concrete: mechanical and physical properties

Aliakbar Gholampour[1] · Togay Ozbakkaloglu[2] · Mohammad Valizadeh Kiamahalleh[3] · Osman Gencel[4]

Received: 3 December 2024 / Accepted: 2 April 2025 / Published online: 19 April 2025
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Abstract
Replacing cement with glass powder (GP) and natural sand with glass sand (GS) in concrete could provide a compelling pathway to a sustainable construction to reduce environmental impacts of both concrete and waste glass. An experimental investigation on concrete, where cement is substituted by GP, fly ash (FA), and ground granulated blast furnace slag (GGBS) and natural sand is substituted by GS, is presented. 17 mixes were considered, and workability, density, elastic modulus, compressive strength, and water absorption were evaluated. Results indicate that the GP particle size significantly affects the concrete properties. Increasing the GP particle size decreases the concrete compressive strength and elastic modulus. The replacement of cement with GGBS at a 55% level has a positive effect on the mechanical characteristics of GP concrete, with an average enhancement of 11% in the compressive strength and 4% improvement in the elastic modulus at 28 days. Replacing sand by the GS at up to 25% develops comparable mechanical properties to those of conventional concrete, with only a 3% and 2% reduction in 28-day compressive strength and elastic modulus, respectively. 50% GS and 35% GGBS develops similar mechanical properties in the waste-based concrete in comparison to the conventional concrete. Incorporating 55% GGBS or 15% FA/40% GGBS reduces concrete water absorption when compared to that of cement-based concrete.

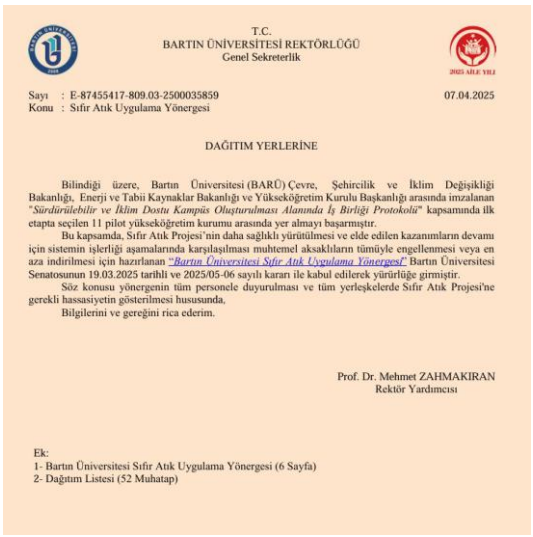
Keywords Waste glass · Compressive strength · Fly ash · Water absorption · Elastic modulus · Blast furnace slag

3 Institutional Waste Management and 2025 Records

Entry into Force of the Zero Waste Implementation Directive

Bartın University's Zero Waste Implementation Directive entered into force through Senate Decision No. 2025/05-06 of 19 March 2025. Communicated to units by an official letter dated 7 April 2025, the regulation covers waste reduction, separate collection, temporary storage, transfer to licensed facilities and record keeping. Waste producers are defined to include contractor employees and visitors alongside staff and students.

Source: Entry into force of the directive and notification to units, 7 April 2025



T.C.
BARTIN ÜNİVERSİTESİ REKTÖRLÜĞÜ
Genel Sekreterlik

Sayı : E-87455417-809.03-2500035859
Konu : Sıfır Atık Uygulama Yönergesi

07.04.2025

DAĞITIM YERLERİNE

Bilindiği üzere, Bartın Üniversitesi (BARÜ) Çevre, Şehircilik ve İklim Değişikliği Bakanlığı, Enerji ve Tabii Kaynaklar Bakanlığı ve Yükseköğretim Kurulu Başkanlığı arasında imzalanan "*Sürdürülebilir ve İklim Dostu Kampüs Oluşturulması Alanında İş Birliği Protokolü*" kapsamında ilk etapta seçilen 11 pilot yükseköğretim kurumu arasında yer almayı başarmıştır.

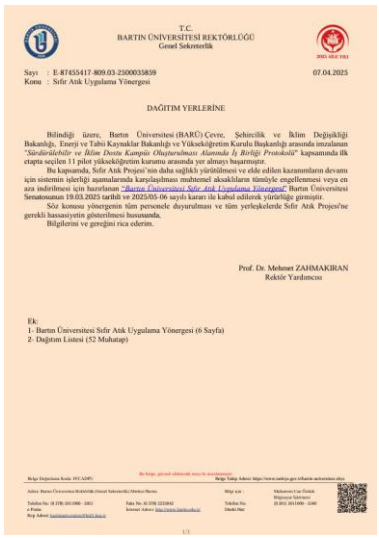
Bu kapsamda, Sıfır Atık Projesi'nin daha sağlıklı yürütülmesi ve elde edilen kazanımların devamı için sistemin işlerliği aşamalarında karşılaşılması muhtemel aksaklıların tümüyle engellenmesi veya en aza indirilmesi için hazırlanan "*Bartın Üniversitesi Sıfır Atık Uygulama Yönergesi*" Bartın Üniversitesi Senatosunun 19.03.2025 tarihli ve 2025/05-06 sayılı kararı ile kabul edilerek yürürlüğe girmiştir.

Söz konusu yönergenin tüm personele duyurulması ve tüm yerleşkelerde Sıfır Atık Projesi'ne gerekli hassasiyetin gösterilmesi hususunda,

Bilgilerini ve gereğini rica ederim.

Prof. Dr. Mehmet ZAHMAKIRAN
Rektör Yardımcısı

Ek:
1- Bartın Üniversitesi Sıfır Atık Uygulama Yönergesi (6 Sayfa)
2- Dağıtım Listesi (52 Muhatap)



T.C.
BARTIN ÜNİVERSİTESİ REKTÖRLÜĞÜ
Genel Sekreterlik

Sayı : E-87455417-809.03-2500035859
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Monitoring Waste by Category

Waste categories with reported quantities above zero in the 2025 monitoring records are presented below. Quantities are given in kilograms and tonnes; tonne equivalents were calculated by dividing kilogram values by 1,000. A total of 17,277 kg of paper, plastic, glass and metal was recycled. Organic and hazardous waste quantities are presented as separate categories in the annual monitoring table.

Waste category	2025 quantity (kg)	Equivalent in tonnes
Paper	9,247.00	9.247
Plastic	5,216.00	5.216
Glass	2,671.00	2.671
Metal	143.00	0.143
Biodegradable (organic/food)	376.00	0.376
Hazardous waste	519.00	0.519
Total of the listed categories	18,172.00	18.172

Source: 2018–2025 Annual Waste Monitoring Report, 2025 row

BARTIN ÜNİVERSİTESİ
Atık Takip Raporu
Yıllık Rapor

Yıl	Kağıt (kg)	Plastik (kg)	Cam (kg)	Metal (kg)	Biyobozunur (Organik-Gıda) Atıklar (kg)	Geri Dönüşmeyen Evsel Atıklar (kg)	Kompozit Atıkları (kg)	Ahşap Atıkları (kg)	Tıbbi Atıkları (kg)	Bitkisel Atık Yağ (kg)	Atık Pil (kg)	Tehlikeli Atık (kg)	AEE (Atık Elektrikli Elektronik Eşya) (kg)
2018 YILI TOPLAMI	5.038,87	3.352,27	819,40	39,10	3,00	10,30	0,00	0,00	0,00	1.450,00	0,00	0,00	0,00
2019 YILI TOPLAMI	23.817,72	17.541,49	5.931,65	447,15	55,00	45,95	0,00	0,00	0,00	1.400,00	0,00	0,00	0,00
2020 YILI TOPLAMI	11.697,71	6.473,46	2.317,45	513,50	66,00	102,00	0,00	0,00	0,00	450,00	0,00	0,00	0,00
2021 YILI TOPLAMI	11.300,06	4.945,36	1.606,60	1.030,10	40,00	7,00	0,00	0,00	0,00	200,00	980,00	710,00	2.060,00
2022 YILI TOPLAMI	11.408,25	6.755,59	2.407,10	444,60	1.363,90	662,20	0,00	0,00	0,00	450,00	50,00	200,00	0,00
2023 YILI TOPLAMI	11.398,80	4.380,00	1.926,50	192,50	1.200,00	0,00	0,00	0,00	67,00	0,00	0,00	530,00	0,00
2024 YILI TOPLAMI	9.775,00	4.689,00	2.355,00	123,00	3.889,00	0,00	0,00	0,00	320,00	0,00	50,00	371,00	0,00
2025 YILI TOPLAMI	9.247,00	5.216,00	2.671,00	143,00	376,00	0,00	0,00	0,00	0,00	0,00	0,00	519,00	0,00
GENEL TOPLAM	**93.683,41**	**53.353,17**	**20.034,70**	**2.932,95**	**6.992,90**	**827,45**	**0,00**	**0,00**	**387,00**	**3.950,00**	**1.080,00**	**2.330,00**	**2.060,00**

Transfer of Hazardous Waste to a Licensed Company

On 2 December 2025, hazardous waste generated in University units and laboratories was transferred to the licensed company contracted by the University. The transfer record reported 191 kg from Ağdacı Campus and 328 kg from Kutlubey Campus, totalling 519 kg. Covering waste such as acids, solvents, chemicals and toner, the transfer was entered into the Zero Waste Automation System.

Source: Transfer of hazardous waste to a licensed company, 2 December 2025





4 Resource Efficiency and Public Reporting

Monitoring Materials and Savings through ALYS

The Smart Logistics Management System (ALYS) generated savings of TRY 1,295,194 in 2025. Enabling digital management of materials and resources, the system supports needs monitoring and institutional resource efficiency activities.

Source: ALYS annual savings figures, 2025 graphic



Organic Waste Recovery through the Biopore Installation

A second biopore installation was established in 2025 under the leadership of Asst. Prof. Recep Önder Sürmeli. The practice was developed to return organic waste to the soil and support rainwater infiltration. It thus addressed organic matter cycling and on-site water management together.

Source: Second biopore installation and photographs, 30 May 2025





Certification and Waste Management Responsibilities

Ağdacı Campus's Basic Level Zero Waste Certificate was renewed on 4 February 2025. The institutional announcement stated that the new certificate was valid until 4 February 2030. The zero waste structure operates through the responsibilities of building officers, collection and storage staff, and the Zero Waste Management Unit under the General Secretariat.

Source: Renewal of Ağdacı's Zero Waste Certificate, 4 February 2025



TÜRKİYE CUMHURİYETİ
ÇEVRE, ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ BAKANLIĞI

SIFIR ATIK

T.C. BARTIN VALİLİĞİ ÇEVRE,ŞEHİRCİLİK VE İKLİM DEĞİŞİKLİĞİ İL MÜDÜRLÜĞÜ

SIFIR ATIK BELGESİ

(Temel Seviye)

Belge No: TS/74/B2/6/54 Tarih: 04.02.2025

Adı: T.C. BARTIN ÜNİVERSİTESİ REKTÖRLÜĞÜ
Adresi: BARTIN,AĞDACI MAHALLESİ, FAKÜLTE CADDE, NO: 54 - –, MERKEZ,TÜRKİYE
Vergi No: 8150449452
Türü: Bina/Yerleşke

12/07/2019 tarihli ve 30829 sayılı Resmi Gazete'de yayımlanarak yürürlüğe giren Sıfır Atık Yönetmeliği'nce Sıfır Atık Yönetim Sistemi'ni kurarak **Sıfır Atık Belgesi**'ni almaya hak kazanmıştır.

Mehmet ÖZDEMİR
Çevre,Şehircilik ve İklim Değişikliği İl Müdürü
E-İMZALIDIR

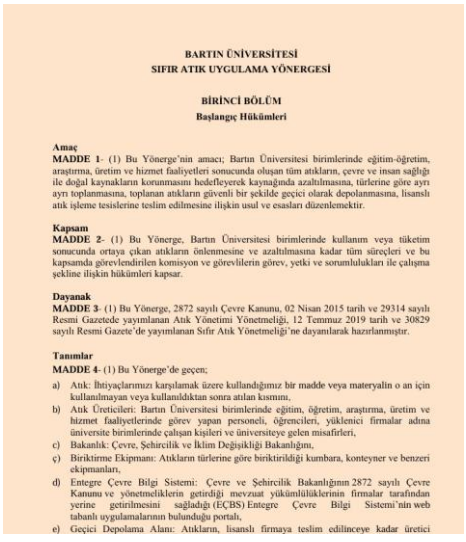
Belge Son Geçerlilik Tarihi:
04.02.2030

Doğrulama Kodu: 131CFD77-28F4-4E24-92CB-B283245DF533 Doğrulama Adresi: https://www.turkiye.gov.tr

The 2025 directive requires weekly automation entries to be matched with transfer schedules, and those schedules with receipts from licensed companies. Building-level inspections and monthly and annual reporting form an institutional record-keeping system for tracking waste from its source to its transfer.

Source: Zero Waste Implementation Directive, 19 March 2025, full text

Source: Zero Waste monthly/annual reporting and EÇBS data process



BARTIN ÜNİVERSİTESİ
SIFIR ATIK UYGULAMA YÖNERGESİ

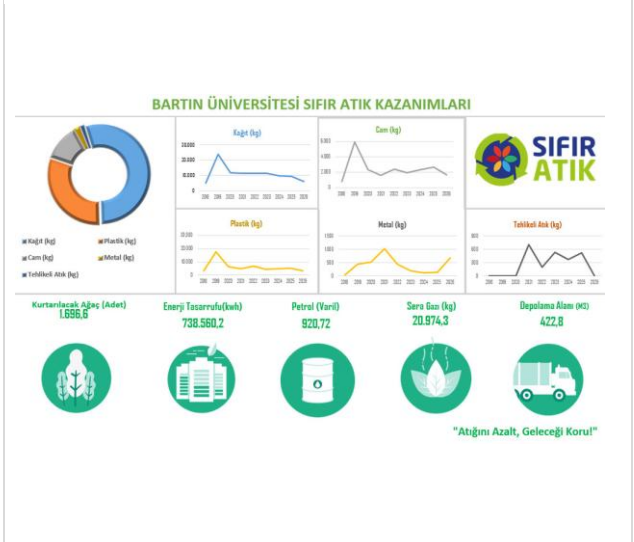
BİRİNCİ BÖLÜM
Başlangıç Hükümleri

Amaç
MADDE 1- (1) Bu Yönerge'nin amacı; Bartın Üniversitesi birimlerinde eğitim-öğretim, araştırma, üretim ve hizmet faaliyetleri sonucunda oluşan tüm atıkların, çevre ve insan sağlığı ile doğal kaynakların korunmasını hedefleyerek kaynağında azaltılmasına, türlerine göre ayrı ayrı toplanmasına, toplanan atıkların güvenli bir şekilde geçici olarak depolanmasına, lisanslı atık işleme tesislerine teslim edilmesine ilişkin usul ve esasları düzenlemektir.

Kapsam
MADDE 2- (1) Bu Yönerge, Bartın Üniversitesi birimlerinde kullanım veya tüketim sonucunda ortaya çıkan atıkların önlenmesine ve azaltılmasına kadar tüm süreçleri ve bu kapsamda görevlendirilen komisyon ve görevlilerin görev, yetki ve sorumlulukları ile çalışma şekline ilişkin hükümleri kapsar.

Dayanak
MADDE 3- (1) Bu Yönerge, 2872 sayılı Çevre Kanunu, 02 Nisan 2015 tarih ve 29314 sayılı Resmi Gazetede yayımlanan Atık Yönetimi Yönetmeliği, 12 Temmuz 2019 tarih ve 30829 sayılı Resmi Gazete'de yayımlanan Sıfır Atık Yönetmeliği'ne dayanılarak hazırlanmıştır.

Tanımlar
MADDE 4- (1) Bu Yönerge'de geçen;
a) Atık: İhtiyaçlarımızı karşılamak üzere kullandığımız bir madde veya materyalin o an için kullanılmayan veya kullanıldıktan sonra atılan kısmını,
b) Atık Üreticileri: Bartın Üniversitesi birimlerinde eğitim, öğretim, araştırma, üretim ve hizmet faaliyetlerinde görev yapan personeli, öğrencileri, yüklenici firmalar adına üniversite birimlerinde çalışan kişileri ve üniversiteye gelen misafirleri,
c) Bakanlık: Çevre, Şehircilik ve İklim Değişikliği Bakanlığını,
ç) Biriktirme Ekipmanı: Atıkların türlerine göre biriktirildiği kumbara, konteyner ve benzeri ekipmanları,
d) Entegre Çevre Bilgi Sistemi: Çevre ve Şehircilik Bakanlığının 2872 sayılı Çevre Kanunu ve yönetmeliklerin getirdiği mevzuat yükümlülüklerinin firmalar tarafından yerine getirilmesini sağladığı (EÇBS) Entegre Çevre Bilgi Sistemi'nin web tabanlı uygulamalarının bulunduğu portalı,
e) Geçici Depolama Alanı: Atıkların, lisanslı firmaya teslim edilinceye kadar üretici



Sharing Sustainability Information

A sustainability report bearing the cover year 2025 is publicly available on the University's GreenMetric webpage. Monthly and annual waste reports are accessible through the Zero Waste webpage. Sustainability activities and operational waste records are therefore shared through different forms of reporting.

Source: Public sustainability report webpage

Source: Sustainability report bearing the cover year 2025, covering 2024 activities





Climate Action

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook work on climate change adaptation, reducing flood and water scarcity risks, and climate literacy. The BİRUS project, implemented with Bartın Municipality and Bartın Special Provincial Administration, combined community education with local adaptation practices. Carbon capture cooperation, climate-smart city research and the monitoring of sustainable campus performance complemented the University's mitigation and adaptation activities.

1 Education and Public Awareness

Community Education on Floods and Drought in Villages

In 2025, field education under BİRUS began in Bartın villages that had previously experienced flooding or water scarcity. With contributions from Bartın Municipality and the Special Provincial Administration, academic staff met residents of different ages in village coffeehouses and delivered seminars on climate change and flood and drought risks.

The sessions shared information on rainwater harvesting and the protection of water resources, alongside awareness materials. Aiming to reach 24 villages, the programme sought to communicate scientific knowledge to rural communities in an understandable and accessible form and develop public awareness of disasters.

Source: Village training on floods and drought and photographs, 7 May 2025





Climate Information for Students

In 2025, the Department of Management Information Systems held an information event on climate change for students. This departmental initiative supported the

dissemination of climate change knowledge to students in different disciplines and the development of environmental awareness.

Source: Department of Management Information Systems climate information activity, 30 April 2025





Interdisciplinary Teaching on Climate Change

During the spring semester of the 2024–2025 academic year, ORM189 Climate and Climate Change from the Department of Forest Engineering and CEV445 Climate Change from the Department of Environmental Engineering were opened to students from other departments. Each carrying four ECTS credits, the courses made climate-related teaching available to students across disciplines.

Source: Spring semester 2024–2025 electives open to other departments, pages 2 and 4

2024-2025 Akademik Yılı Bahar Döneminde Açılan Bölüm Dışı Seçmeli Dersler ve Kontenjanlar

Akademik Birim	Bölüm/Program	Dersin Kodu	Dersin Adı	AKTS	2024-2025 Bahar Dönemi Kontenjanları		Dersin Verileceği Yerleşke
					N.Ö.	İ.Ö.	
Orman Fakültesi	Orman Endüstri Mühendisliği	ORE116	Ahşap Yapı Teknolojisi	4	25	0	Ağdacı Yerleşkesi
		ORE117	İş Etüdü ve Ergonomi	4	25	0	
		ORE489	Ahşap Kültürü	4	25	0	
		ORE139	Bilgisayar Destekli Çizim	4	25	0	
		KRY200	Kariyer Planlama	4	25	0	
		GRŞ300	Girişimcilik	4	25	0	
		İSG300	İş Sağlığı ve Güvenliği	4	25	0	
	Orman Mühendisliği	ORM414	Ağaçlandırma	4	50	0	Kutlubey Yerleşkesi
		ORM280	Doğada Ergonomi	4	50	0	Ağdacı Yerleşkesi
		ORM189	İklim ve İklim Değişikliği	4	50	0	
		ORM191	Ekosistem Ekolojisi	4	50	0	
		GÖN300	Gönüllülük Çalışmaları	4	30	0	
		PRK300	Proje Kültürü	4	25	0	
		KRY200	Kariyer Planlama	4	50	0	
		ÜNK300	Üniversite Kültürü	4	50	0	
	TOPLAM DERS VE KONTENJAN SAYISI		15		530	0	
					530		

Climate Change and Environmental Responsibility Training

Asst. Prof. Recep Önder Sürmeli from the Department of Environmental Engineering delivered environmental awareness training for students on 18 December 2025. Topics included environmental pollution, sustainability, natural resource protection, climate change and zero waste. Also addressing individual responsibilities in responding to environmental problems, the programme aimed to help students relate climate and environmental issues to daily life.

Source: Environmental awareness training for students



2 Climate Research and Technology Development

In 2025, Bartın University contributed to the knowledge base for SDG 13 through research focusing on combating climate change and climate adaptation. Of the University-affiliated publications associated with this goal, 43 are indexed in Web of Science and 29 in Scopus.

University–Industry Cooperation on Carbon Capture

BARÜ and Akdaş Döküm signed a cooperation protocol on carbon capture technologies on 25 March 2025. Drawing on Prof. Mehmet Zahmakıran's research expertise and work associated with TÜBİTAK 2247-A support, the initiative aimed to develop carbon capture materials and transfer them to industrial scale. Cooperation focused on lower-cost material development, pilot-scale production and the application of research findings in industry.

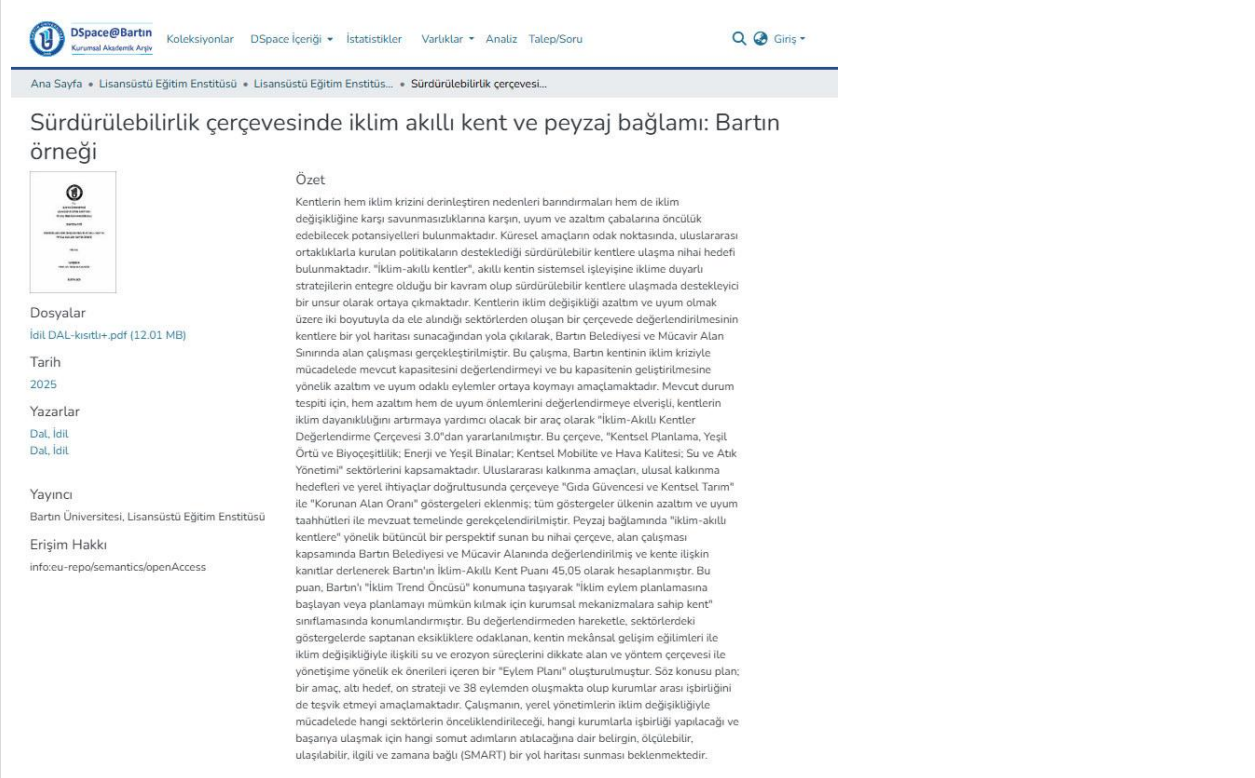
Source: University–industry cooperation on carbon capture, 25 March 2025



Research on a Climate-Smart City and Landscape for Bartın

İdil Dal's 2025 doctoral thesis, “The Climate-Smart City and Landscape Context within a Sustainability Framework: The Case of Bartın”, assessed climate change adaptation and mitigation capacity within Bartın Municipality and its adjacent jurisdiction. The study jointly addressed urban planning, green spaces and biodiversity, energy and buildings, transport, water and waste management. Food security, urban agriculture and protected area indicators were also included in response to local needs. The research developed a proposed action plan comprising one overarching aim, six targets, ten strategies and 38 actions. The thesis provides a research-based framework for local government priority setting and interinstitutional cooperation. Its recommendations are reported as a University postgraduate research output on climate.

Source: İdil Dal, 2025 doctoral thesis on the climate-smart city and landscape, Bartın case


DSpace@Bartın Kurumsal Akademik Arşiv

Koleksiyonlar DSpace İçeriği İstatistikler Varlıklar Analiz Talep/Soru Giriş

Ana Sayfa • Lisansüstü Eğitim Enstitüsü • Lisansüstü Eğitim Enstitüs... • Sürdürülebilirlik çerçevesi...

Sürdürülebilirlik çerçevesinde iklim akıllı kent ve peyzaj bağlamı: Bartın örneği

Dosyalar

İdil DAL-kısıtlı+.pdf (12.01 MB)

Tarih

2025

Yazarlar

Dal, İdil

Dal, İdil

Yayıncı

Bartın Üniversitesi, Lisansüstü Eğitim Enstitüsü

Erişim Hakkı

info:eu-repo/semantics/openAccess

Özet

Kentlerin hem iklim krizini derinleştiren nedenleri barındırmaları hem de iklim değişikliğine karşı savunmasızlıklarına karşın, uyum ve azaltım çabalarına öncülük edebilecek potansiyelleri bulunmaktadır. Küresel amaçların odak noktasında, uluslararası ortaklıklarla kurulan politikaların desteklediği sürdürülebilir kentlere ulaşma nihai hedefi bulunmaktadır. "İklim-akıllı kentler", akıllı kentin sistemsel işleyişine iklime duyarlı stratejilerin entegre olduğu bir kavram olup sürdürülebilir kentlere ulaşmada destekleyici bir unsur olarak ortaya çıkmaktadır. Kentlerin iklim değişikliği azaltım ve uyum olmak üzere iki boyutuyla da ele alındığı sektörlerden oluşan bir çerçevede değerlendirilmesinin kentlere bir yol haritası sunacağından yola çıkılarak, Bartın Belediyesi ve Mücavir Alan Sınırında alan çalışması gerçekleştirilmiştir. Bu çalışma, Bartın kentinin iklim kriziyle mücadelede mevcut kapasitesini değerlendirmeyi ve bu kapasitenin geliştirilmesine yönelik azaltım ve uyum odaklı eylemler ortaya koymayı amaçlamaktadır. Mevcut durum tespiti için, hem azaltım hem de uyum önlemlerini değerlendirmeye elverişli, kentlerin iklim dayanıklılığını artırmaya yardımcı olacak bir araç olarak "İklim-Akıllı Kentler Değerlendirme Çerçevesi 3.0"dan yararlanılmıştır. Bu çerçeve, "Kentsel Planlama, Yeşil Örtü ve Biyoçeşitlilik; Enerji ve Yeşil Binalar; Kentsel Mobilite ve Hava Kalitesi; Su ve Atık Yönetimi" sektörlerini kapsamaktadır. Uluslararası kalkınma amaçları, ulusal kalkınma hedefleri ve yerel ihtiyaçlar doğrultusunda çerçeveye "Gıda Güvencesi ve Kentsel Tarım" ile "Korunan Alan Oranı" göstergeleri eklenmiş; tüm göstergeler ülkenin azaltım ve uyum taahhütleri ile mevzuat temelinde gerekçelendirilmiştir. Peyzaj bağlamında "iklim-akıllı kentlere" yönelik bütüncül bir perspektif sunan bu nihai çerçeve, alan çalışması kapsamında Bartın Belediyesi ve Mücavir Alanında değerlendirilmiş ve kente ilişkin kanıtlar derlenerek Bartın'ın İklim-Akıllı Kent Puanı 45,05 olarak hesaplanmıştır. Bu puan, Bartın'ı "İklim Trend Öncüsü" konumuna taşıyarak "İklim eylem planlamasına başlayan veya planlamayı mümkün kılmak için kurumsal mekanizmalara sahip kent" sınıflamasında konumlandırmıştır. Bu değerlendirmeden hareketle, sektörlerdeki göstergelerde saptanan eksikliklere odaklanan, kentin mekânsal gelişim eğilimleri ile iklim değişikliğiyle ilişkili su ve erozyon süreçlerini dikkate alan ve yöntem çerçevesi ile yönetişime yönelik ek önerileri içeren bir "Eylem Planı" oluşturulmuştur. Söz konusu plan; bir amaç, altı hedef, on strateji ve 38 eylemden oluşmakta olup kurumlar arası işbirliğini de teşvik etmeyi amaçlamaktadır. Çalışmanın, yerel yönetimlerin iklim değişikliğiyle mücadelede hangi sektörlerin önceliklendirileceği, hangi kurumlarla işbirliği yapılacağı ve başarıya ulaşmak için hangi somut adımların atılacağına dair belirgin, ölçülebilir, ulaşılabilir, ilgili ve zamana bağlı (SMART) bir yol haritası sunması beklenmektedir.

3 Climate Adaptation Activities with Local Authorities

BİRUS Project Results in 2025

The closing meeting of “Climate Change Adaptation Strategies: Reducing Flood and Water Scarcity Risks in Bartın”, funded by the European Union and the Republic of Türkiye and led by BARÜ in partnership with Bartın Municipality and Bartın Special Provincial Administration, was held on 12 June 2025. The University, local authorities and relevant stakeholders reviewed the project's activities.

Source: Project and Technology Office 2025 Annual Activity Report, BİRUS closing meeting, PDF pages 64–65



Completed BİRUS activities were presented at the Climate Change Adaptation Grant Programme Fair and Information Meeting in Ankara on 25 September 2025. The project included the development of a flood early warning system for the Bartın River Basin, climate adaptation mapping and planning, rainwater harvesting and green roof

pilots, and awareness activities. The University's technical expertise was applied to regional risks in partnership with local authorities.

Source: Presentation of the completed BİRUS project's results, 25 September 2025





Engagement with Civil Society and Student Volunteering

The Bartın Provincial Representative of the TEMA Foundation and the Bartın Young TEMA Club, accompanied by their academic advisers, met the Dean's Office of the Faculty of Forestry on 3 October 2025. The meeting addressed the club's structure, objectives and planned activities to increase environmental awareness among students.

Source: Meeting with TEMA and Young TEMA, 3 October 2025



4 Institutional Sustainability Performance

Green Campus Performance in the UI GreenMetric 2025 Ranking

Bartın University ranked 170th among 1,745 higher education institutions from 105 countries in the UI GreenMetric World University Rankings 2025. With 8,300 points, BARÜ placed 15th among the 142 participating universities from Türkiye and 10th among public universities.

In the assessment covering campus setting and infrastructure, energy and climate change, waste management, water management, transport, and education and research, the University increased its total score by 190 points and rose 13 places globally compared with 2024. The result supported the international visibility of BARÜ's work on sustainable campus management.

Source: UI GreenMetric 2025 results and BARÜ's green campus performance





Life Below Water

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook scientific research, marine litter education and coastal clean-up activities related to marine and freshwater ecosystems. Information sessions across academic units were complemented by research on pollutant effects on aquatic organisms and aquaculture. A proposal for an institutional structure dedicated to hydrology and hydrobiology research also aimed to develop research capacity in this field.

1 Education and Awareness Activities

Marine Litter Training across University Units

In line with the awareness activities of the Provincial Marine Litter Action Plan, Asst. Prof. Niyazi Erdem Delikanlı, Asst. Prof. Ercan Berberler and Asst. Prof. Recep Önder Sürmeli from Environmental Engineering delivered training during the spring semester of 2025. Activities continued with marine litter training for students and staff delivered by Niyazi Erdem Delikanlı on 15 December 2025. The session addressed the sources of marine litter and its ecological, economic and public health impacts, together with pollution prevention methods and individual responsibilities.

Date	Unit hosting the training
22 April 2025	Faculty of Economics and Administrative Sciences
7 May 2025	Faculty of Education
15 May 2025	Faculty of Engineering, Architecture and Design
15 May 2025	Vocational School of Health Services
29 May 2025	Bartın Vocational School
15 December 2025	Faculty of Health Sciences

Source: Marine litter training across University units, 1 June 2025





2 Research on Life Below Water

In 2025, Bartın University contributed to the knowledge base for SDG 14 through research focusing on aquatic ecosystems and the protection of life below water. Of the University-affiliated publications associated with this goal, 18 are indexed in Web of Science and 10 in Scopus.

Effects of a Pesticide on Carp

A study co-authored by Yavuz Erden from BARÜ's Faculty of Science was published in Frontiers in Physiology on 2 October 2025. It examined the acute and sublethal effects of the insecticide flupyradifurone on carp (Cyprinus carpio). Blood parameters, biochemical indicators and DNA damage were assessed in 14-day exposure experiments. The findings demonstrated dose-dependent physiological disturbances and genotoxic effects under experimental conditions. The study provides scientific data for assessing the effects of agricultural pollutants on non-target aquatic organisms.

Source: https://doi.org/10.3389/fphys.2025.1676992



frontiers | Frontiers in Physiology

TYPE Original Research
PUBLISHED 02 October 2025
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Yıldırım Ö, Acar Ü, Tezel R, Erden Y, Bilge G and Yapıcı S (2025) Dose-dependent hemato-biochemical and genotoxic responses of common carp (*Cyprinus carpio*) to flupyradifurone. *Front. Physiol.* 16:1676992. doi: 10.3389/fphys.2025.1676992

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Dose-dependent hemato-biochemical and genotoxic responses of common carp (*Cyprinus carpio*) to flupyradifurone

Önder Yıldırım[1†], Ümit Acar[1,2†], Rifat Tezel[1†], Yavuz Erden[3], Gökçen Bilge[1*] and Sercan Yapıcı[1]

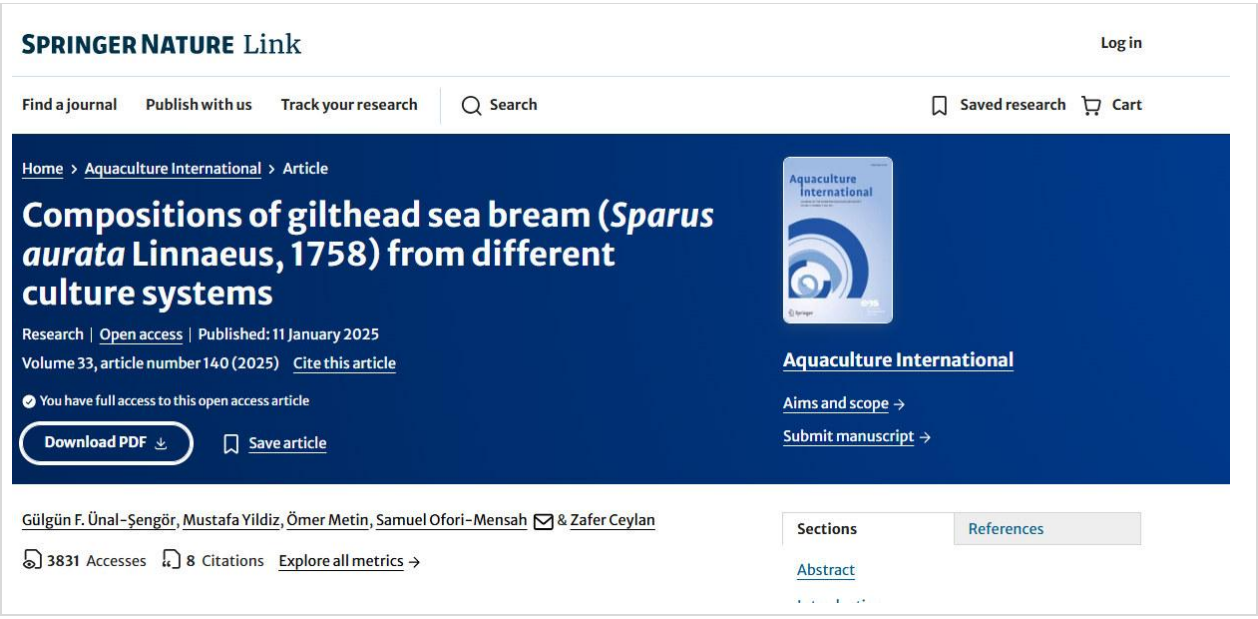
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Flupyradifurone (FPF), a systemic butenolide insecticide introduced in 2014, is increasingly used as an alternative to neonicotinoids, yet its safety for non-target aquatic organisms remains poorly understood. This study evaluated the acute and sub-lethal toxicity of FPF in juvenile common carp (*Cyprinus carpio*). A 96-h static bioassay determined an LC_{50} of 140.47 mg/L. Fish were then exposed for 14 days to sub-lethal concentrations (1, 3, 5, 25, 75 and 125 mg/L) to assess hematological, biochemical, and genotoxic responses. Hematological analysis revealed significant, dose-dependent declines in red blood cells (1.71 × 10^6/µL in control vs. 1.12 × 10^6/µL at 125 mg/L), hemoglobin (8.34 vs. 3.34 g/dL), and hematocrit (26.08% vs. 13.73%), accompanied by reduced mean corpuscular volume, mean corpuscular hemoglobin, and mean corpuscular hemoglobin concentration at higher doses, indicating anemia and impaired oxygen transport. Biochemically, glucose increased sharply (102.21 mmol/L in control to 230.29 mmol/L at 125 mg/L), while triglycerides, cholesterol, total protein, and albumin declined significantly, suggesting metabolic disruption. Hepatic enzyme activities (alkaline phosphatase, serum glutamic oxaloacetic transaminase, serum glutamate pyruvate transaminase) increased markedly, with serum glutamic oxaloacetic transaminase rising from 36.47 U/L in controls to 144.02 U/L at 125 mg/L, indicative of hepatocellular damage. Comet assay confirmed pronounced DNA damage at ≥25 mg/L, with significant elevations in tail length, tail moment, and % DNA in tail. Collectively, these results demonstrate that FPF exposure compromises hematological health, disrupts metabolic balance, and induces genotoxicity in common carp, even at sub-lethal concentrations. Incorporating both physiological and genomic endpoints is essential for comprehensive ecological risk assessments of emerging insecticides.

Research on Gilthead Sea Bream in Different Farming Systems

Research co-authored by Zafer Ceylan from BARÜ's Department of Molecular Biology and Genetics was published in Aquaculture International on 11 January 2025. It compared the nutritional composition, amino acid profiles and fatty acid profiles of gilthead sea bream (Sparus aurata) farmed in marine cages and earthen ponds in the Aegean Region during summer and winter. Identifying variations by farming environment and season provided knowledge on production systems and product quality in aquaculture. The research was a 2025 output evaluating farming methods through scientific data.

Source: https://doi.org/10.1007/s10499-024-01735-6



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Compositions of gilthead sea bream (*Sparus aurata* Linnaeus, 1758) from different culture systems

Research | Open access | Published: 11 January 2025

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Sections | References

Abstract

Plant-Based Feed Additives and Disease Resistance in Carp Aquaculture

Research co-authored by Fahriye Zemheri Navruz and published in the Turkish Journal of Fisheries and Aquatic Sciences in 2025 examined the effects of diets containing myrrh (Commiphora myrrha) essential oil on carp. A 30-day feeding experiment and subsequent infection monitoring assessed blood and biochemical indicators, immune- and stress-related gene expression, and disease resistance. The findings provided experimental data on the potential of plant-based feed additives in aquaculture.

Source: https://doi.org/10.4194/TRJFAS27525



RESEARCH PAPER

Turkish Journal of FISHERIES and AQUATIC SCIENCES

Effects of a Myrrh (*Commiphora myrrha)* Essential Oil Supplemented Diet on Haemato-Biochemical Parameters, Expression of Tissue-Specific Immune- and Stress-Related Genes, and Resistance of *Cyprinus carpio* to *Aeromonas hydrophila* Infection

Ümit Acar[1], Önder Yıldırım[2,*], Esin Baba[2], Fahriye Zemheri Navruz[3], Mustafa Hacisa[2], Sevdan Yılmaz[4]

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How to Cite

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Corresponding Author
E-mail: onderyildirim@mu.edu.tr

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Myrrh essential oil
Hematological parameters
mRNA expression
Common carp
Immunomodulatory effects

Abstract

Plant-based additives or botanicals, have garnered considerable interest in the aquaculture industry for their multifaceted benefits in fish diets. In this study, a 30 days short term feeding experiment was designed to determine the effects of Myrrh (*Commiphora myrrha*) essential oil on hematological, biochemical parameters and tissue specific mRNA expression responses of common carp (*Cyprinus carpio*). Fish were experimentally infected with *Aeromonas hydrophila* and monitored for 20 days after been divided in four groups: a control group without *C. myrrha* and three experimental groups supplemented with 0.25%, 0.50%, and 1.0% *C. myrrha* essential oil (CMO 0.25, CMO 0.50, and CMO 1.0, respectively). Results revealed a significant increase in RBC count, hemoglobin, and hematocrit values compared to the control diet. Positive effects of *C. myrra* supplementation have been observed also in serum biochemistry parameters. mRNA transcripts of il-1ß, tnf-α, il-8, sod, cat, gpx and gst genes significantly increased in spleen and liver tissue of fish fed with *C. myrra* supplemented diets. After the challenge with *Aeromonas hydrophila*, the survival rates were 60%, and 83.33%, respectively, suggesting enhanced fish resistance in the CMO

3 Coastal, Basin and Local Community Activities

World Cleanup Day Activity on İnkumu Beach

Students from the Division of Primary Education, led by Dr Yasemin Büyükşahin, participated in the World Cleanup Day activity on İnkumu Beach on 20 September 2025. Involving several public institutions and organisations, the initiative enabled students to participate in fieldwork for coastal environmental protection.

Source: İnkumu Beach activity and photographs, 20 September 2025





4 Institutional Development for Aquatic Research

Institutional Development Initiative for Hydrology Research

Through Decision No. 06 at its meeting No. 2025/11 on 30 July 2025, the Bartın University Senate approved the proposal to establish the Hydrology Application and Research Centre (BARÜ-HİDROM) and resolved to submit it to the Council of Higher Education. The proposed centre aimed to bring physical hydrology and hydrobiology together to develop monitoring, analysis and modelling of inland waters, coastal and marine environments, water quality and biodiversity.

Source: Senate decision of 30 July 2025, HİDROM establishment proposal, PDF pages 5–6

Life on Land

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook work on identifying terrestrial biodiversity, protecting forests, detecting invasive pests and using natural resources sustainably. Activities included the scientific description of Paflagonya Belumotu, a forest fire risk mapping project and a partnership for sustainable salep production. Sapling planting, field education, a nature tourism discussion and information on campus flora and fauna constituted education and public awareness activities.

1 Education and Public Awareness

Sapling Planting on National Afforestation Day

The Landscape and Ornamental Plant Cultivation Programme, the Organic Agriculture Programme and the Green Collar Student Club participated in National Afforestation Day activities on 11 November 2025. Coordinated by the Ministry of Agriculture and Forestry's General Directorate of Forestry, the event involved planting saplings in the woodland behind Bartın Industrial Vocational High School. Participation in afforestation enabled students to gain practical experience relevant to forest conservation.

Source: National Afforestation Day sapling planting and photographs, 11 November 2025





Nature Education and Sapling Planting in Early Childhood

In November 2025, Bartın University provided nature education support to “Strong Bonds, Healthy Tomorrows”, initiated by the Bartın Governor's Office and coordinated by the Provincial Directorate of National Education. Under the “Nature School for Everyone” theme, Prof. Barbaros Yaman and Research Assistant Esra Pulat from the

Faculty of Forestry introduced tree species to Ağdacı Kindergarten pupils and guided practical sapling planting. The activity enabled children to recognise trees and interact directly with nature.

Source: Sapling planting and tree species education for kindergarten pupils



Field-Based Professional Learning in Protected Areas

In December 2025, the Department of Landscape Architecture organised a technical visit to Küre Mountains National Park and the Ulus area as part of its Professional Development Workshops. Within the course taught by Assoc. Prof. Mustafa Artar, students received information from national park technical personnel at Ağaköy Visitor Centre and examined the taxidermy museum. Visits to Drahna Valley and its surroundings and an approximately three-kilometre nature walk along the Alıçlı–Ulukaya route enabled students to learn about protected areas and regional natural heritage on site.

Source: Küre Mountains National Park–Ulus technical visit



Learning about Regional Plants, Animals and Natural Areas on Site

Social Studies Teaching students, guided by Asst. Prof. Mehmet Ünal, undertook a field visit to Drahna Valley, Ulukaya Canyon and Ulukaya Waterfall on 23 November 2025. They examined taxidermy specimens of local animal species and plant collections at Ağaköy Nature Museum and completed an approximately three-kilometre nature walk in the canyon. Information on Küre Mountains National Park and the region's natural and cultural characteristics supported students' understanding of the area through direct observation.

Source: Drahna Valley and Ulukaya field visit, 23 November 2025





Public Discussion on Nature Tourism at Ulukaya

In 2025, a Science Café event entitled “Ulus, the Hidden Paradise: The Impact of Nature Tourism on Local Development” was held at Ulukaya Waterfall. Local government representatives and residents of different ages attended the discussion, led by Asst. Prof. Hande Uyar Oğuz. With questions from participants, the event addressed the region's plant and bird diversity, protected area status, nature-based tourism opportunities and cultural heritage.

Source: Science Café on nature tourism and local development, 1 August 2025





2 Biodiversity and Forest Research

In 2025, Bartın University contributed to the knowledge base for SDG 15 through research focusing on terrestrial ecosystems and biodiversity conservation. Of the University-affiliated publications associated with this goal, 38 are indexed in Web of Science and 24 in Scopus.

New Endemic Species Paflagonya Belumotu

An international research team including Assoc. Prof. Bilge Tunçkol from Ulus Vocational School described Cynanchica paphlagonica, investigated with BAP support, in a study published in Phytotaxa on 4 June 2025. First identified in the field in 2020, the plant occurs on limestone cliffs in Horma Canyon, Küre Mountains National Park, in Pınarbaşı district, Kastamonu. Examined through morphological observations and phylogenetic analyses, the species has a single known population of approximately 80 individuals and was assessed by the researchers as Endangered (EN) under IUCN criteria. Conservation needs were identified, with the intention of initiating species action plan work with the General Directorate of Nature Conservation and National Parks.

Source: https://doi.org/10.11646/phytotaxa.704.1.3

Source: Discovery of Paflagonya Belumotu and photographs, 20 June 2025

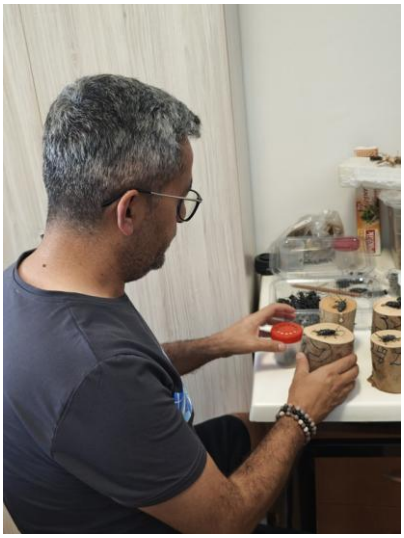




Detection of Invasive Pests Using Detection Dogs

Initial test results from research conducted by doctoral student Ertan Albas under Prof. Yafes Yıldız's supervision were shared on 19 July 2025. Focusing on the citrus longhorned beetle (Anoplophora chinensis), the research examined detection dogs' ability to distinguish the pest's scent. Following approximately two and a half months of training, scent identification took 10 seconds during eight days of testing. The research aims to develop methods for the early detection of invasive insects and their subsequent use in plant quarantine inspections.

Source: Detection of invasive insects using detection dogs, 19 July 2025

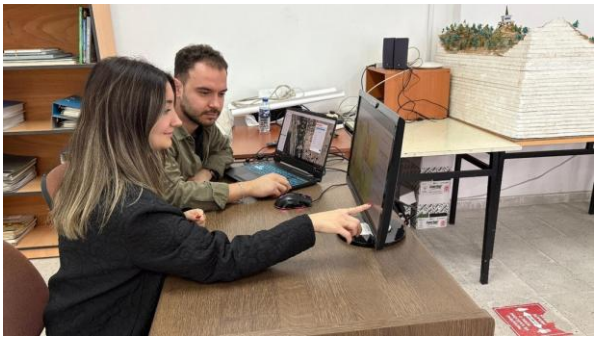




New Project for Mapping Forest Fire Risk

The project “Mapping Wildland–Urban Interface Areas in Türkiye's Fire-Sensitive Basins Using the Collect Earth Method”, led by Prof. Ayhan Ateşoğlu, received TÜBİTAK 1002-A support in 2025. It planned to identify fire-sensitive areas where settlements meet natural environments through expert-validated analyses using FAO's Collect Earth platform. The study aims to develop risk information and land-use planning to help prevent forest loss.

Source: Support for the forest fire risk mapping project, 30 December 2025





3 Species Conservation and Campus Biodiversity

Partnership for Sustainable Salep Production

The agreement for “Anadoludakiler – Sustainable Salep Production”, with BARÜ as applicant and the Bartın Provincial Directorate of Agriculture and Forestry as associate partner, was signed in March 2025. Planned with BAKKA support, the project combines the propagation of threatened salep orchids native to Bartın with support for local producers. Plans included establishing a tissue culture laboratory, producing seedlings from orchid seeds, delivering cultivation training to a target group of 19 people and providing the seedlings free of charge for three years. Led by Asst. Prof. Cevdet Gümüş, the initiative represented a 2025 project step linking controlled propagation for conservation with local development.

Source: Sustainable Salep Production project agreement, 5 March 2025



A Dedicated Centre for Campus Animals

In 2025, Bartın University established a centre at its Kutlubey Campus to provide safe living conditions for animals residing on campus. Covering approximately 400 square metres, the centre was developed through collaboration between students from the BARÜ Nature and Animal Club and academic and administrative staff, with contributions from local tradespeople in Bartın.

The centre provided a dedicated space for meeting campus animals’ feeding and shelter needs in a more organised and controlled manner. Combining student volunteering with institutional support and local contributions, the initiative supported animal welfare and encouraged shared responsibility for the care of animals on campus.

Source: News text



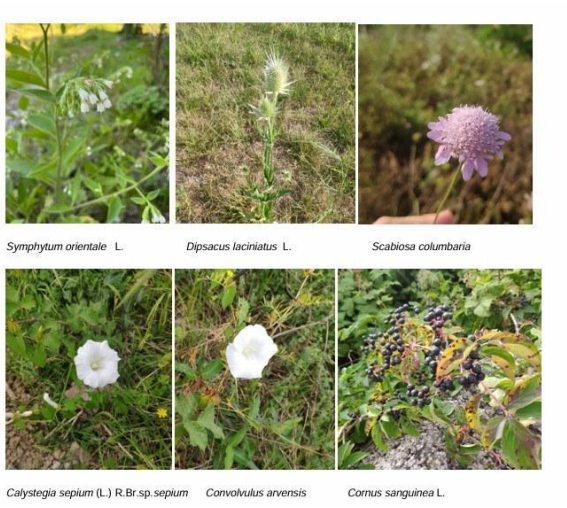


Public Access to Information on Flora and Fauna

Bartın University makes information on campus flora publicly accessible through illustrated presentations of plants on Ağdacı and Kutlubey campuses. Alongside examples such as hazelnut, linden and rosehip, these resources present the BOFZK Herbarium and the approach to conserving endemic species.

Source: Institutional information on campus flora and the BOFZK Herbarium





Bartın University's approach to monitoring campus fauna covers birds, mammals and insects. Species such as kingfishers, storks and hoopoes are illustrated, and information on ornithological observations and cooperation with National Parks is publicly available. These resources share knowledge of campus fauna and the institutional conservation approach with the community.

Source: Institutional information on campus fauna and the monitoring approach







Peace, Justice and Strong Institutions

Reporting period 1 January – 31 December 2025

In 2025, Bartın University (BARÜ) undertook work on public ethics, human rights, student participation, stakeholder consultation and financial transparency. Advisory boards and the revised quality directive supported mechanisms for different groups to participate in governance. Training with public institutions, a human rights panel, governance research, financial reporting and application channels constituted the University's activities on strong institutions.

1 Ethics, Human Rights and Legal Education

Ethical Awareness among Public Employees

On 22 October 2025, Training and Planning Branch Manager Hülya Ersal delivered “Ethics in the Public Sector and Being a Public Employee” training to probationary civil servants. The programme addressed impartiality, integrity, a sense of duty and accountability in public service, with case studies exploring ethical dilemmas in daily working life. It supported staff in adapting to public service and understanding their ethical responsibilities.

Source: Ethics in the Public Sector and Being a Public Employee training, 22 October 2025



Sensitive Duties and Institutional Responsibilities

The Department of Strategy Development delivered “Sensitive Duties” training on 11 February 2025. Employees of stakeholder institutions in Bartın attended alongside University personnel. The programme addressed the performance of duties, risk factors, institutional responsibilities and relevant ethical rules.

Source: Sensitive Duties training and external institutional participation, 11 February 2025





Human Rights and the Protection of Family and Private Life

On 10 December 2025, the Department of Office Services and Secretarial Studies at Bartın Vocational School and the Bartın Governor's Office Provincial Human Rights Board jointly organised the panel “The Family within the Framework of Rights, Responsibilities and Freedoms”. Presentations by academics, a legal professional and public institution representatives addressed social work, the protection of private and family life, children's rights and family support mechanisms. The event brought together local public representatives, students and academics.

Source: Human rights panel and photographs, 10 December 2025





Legal and Criminal Law Awareness in Digital Environments

Ulus Public Prosecutor Assoc. Prof. Fatih Ulaşan held a discussion on artificial intelligence and cybercrime at Ulus Vocational School on 18 November 2025. The programme for students and academic staff addressed legal responsibility, digital evidence and awareness of combating crime.

Source: Discussion on cybercrime and criminal law awareness, 18 November 2025





2 Governance Research and Public Sector Partnerships

In 2025, Bartın University contributed to the knowledge base for SDG 16 through research focusing on peace, justice and effective institutions. Of the University-affiliated publications associated with this goal, 6 are indexed in Web of Science and 15 in Scopus.

Traceability of Public Resources through BİS-ALYS Research

M. Said Ceyhan's research, published in JOMELIPS on 3 July 2025, examined the Budget Monitoring and Smart Logistics Management System developed at BARÜ. The article addresses the digital recording of public inventories, interinstitutional matching of needs, prevention of duplicate purchases and expenditure monitoring. It assessed the role of digital processes and standardised responsibilities in public resource management.

Source: https://doi.org/10.24013/jomelips.1679356



Students' Knowledge of the System of Government

Research by Erdi Topçuoğlu and Dilara Filiz, published on 30 April 2025, examined the relationship between university students' fields of study and their knowledge of the political system. Survey data from 323 third- and fourth-year students in Bartın University's Faculty of Economics and Administrative Sciences and Faculty of Engineering, Architecture and Design were used to compare knowledge levels concerning the Presidential System of Government.

Source: https://doi.org/10.53478/yuksekogretim.1386762



Interinstitutional Capacity Development in Public Procurement

In 2025, Bartın University hosted the two-day "Public Procurement Processes and Legislation" training delivered by Murat Yüksek and İhsan Zıypak from the Public Procurement Authority. Participants included BARÜ personnel, employees from six universities and staff from stakeholder institutions in Bartın. Addressing legislation through case studies and practical challenges, the training aimed to develop institutional knowledge and implementation capacity in public procurement.

Source: Public Procurement Processes and Legislation training, 2025

Source: 2025 Training Report, public procurement training, PDF page 17





3 Participatory Governance and Student Representation

Revision of the Quality Assurance System Directive

The new Quality Assurance System Directive entered into force through University Senate Decision No. 2025/13-03 of 16 September 2025. The regulation defines the composition of the quality commission and its evaluation, monitoring and improvement responsibilities. The inclusion of a student representative as an ex officio commission member and provisions for student participation in unit commissions provide institutional mechanisms for participation in quality processes.

Source: Revision of the Quality Assurance System Directive by decision of 16 September 2025

Source: Quality Assurance System Directive, commission composition, PDF page 5

University Advisory Board Meeting with External Stakeholders

Chaired by the Rector, the online University Advisory Board meeting on 18 November 2025 brought together representatives of public institutions and the private sector with academic administrators. Education, research and regional development were discussed, and information was presented on the Organised Industrial Zone Vocational School, BARÜTEK and the Barrier-Free Living Area. Participants' views and recommendations were incorporated into consultation on the University's areas of work.

Source: University Advisory Board meeting, 18 November 2025





Approach to Participation and Accountability

The Management System Policy Document adopts stakeholder participation in decision-making, pluralism, merit and fairness, transparency, and public information in support of accountability as principles of institutional governance.

Source: Management System Policy Document, publicly accessible text

4 Transparency, Financial Reporting and Application Channels

Public Disclosure of Financial Data for 2025

Bartın University made its 2025 appropriations and actual budget revenue and expenditure publicly accessible. Personnel, goods and services, current transfers and capital expenditure were presented separately to support assessment of resource use. Revenue disclosures included enterprise and property income, donations and assistance received, and other income. The relevant financial data are presented below, retaining the respective accounting scopes of budget revenue and expenditure.

2025 financial indicator	Amount (TRY)
Total budget appropriation	1,855,207,291
Budget expenditure	1,753,440,892
Net budget revenue	1,594,647,378

Source: 2025 University Annual Activity Report, budget expenditure, PDF page 232

Source: 2025 University Annual Activity Report, budget revenue, PDF pages 237–238

Stakeholder Applications and RİMER Annual Results

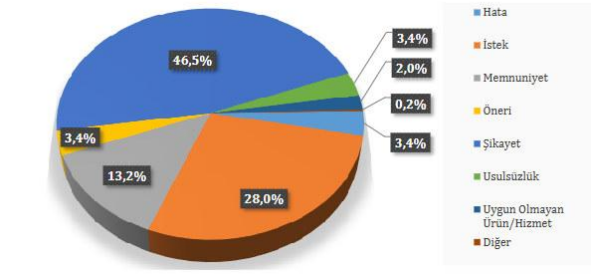
PRD-0006 Stakeholder Satisfaction and Complaint Management Procedure defines responsibilities for receiving, recording and assessing the views, recommendations, requests, expressions of satisfaction and complaints of internal and external stakeholders. Its scope includes students, employees, industry representatives and students' family members. Monitoring applications received through RİMER and other communication channels informs management review activities.

Source: PRD-0006 Stakeholder Satisfaction and Complaint Management Procedure

In 2025, the Rectorate Communication Centre (RİMER) received 447 applications. These comprised 125 requests, 59 expressions of satisfaction, 15 suggestions, 208 complaints, 15 reports of errors, 15 reports of irregularities, 9 cases of non-conforming services/products and 1 other application. Application categories and referral processes to relevant units were made public, supporting the traceability of feedback on University services.

Source: RİMER 2025 Annual Activity Report, application categories and annual results

RİMER Başvuralarının Türlerine Göre Dağılımı



RİMER Başvurularının Konularına Göre Dağılımı

