

REPORT



SDG 2. ZERO HUNGER

AZERBAIJAN TECHNICAL UNIVERSITY

2.1. Research on hunger

AzTU researchers actively contribute to innovative agricultural practices and food engineering, and students gain practical experience through laboratory work and practical application of new technologies. AzTU also organizes tours to food industry companies and promotes knowledge exchange between students and industry experts.

<https://www.aztu.edu.az/az/news/qida-muhendisliyi-ixtisasi-uzre-tehsil-alan-telebelerin-ag-su-ve-qebeleye-ekskursiyasi-teskil-olunub-8401> (link)

The following research papers were published in 2022.

1. Zeynalova, Z.; Namazova, N. **Revealing Consumer Behavior toward Green Consumption**. Sustainability 2022, 14, 5806. <https://doi.org/10.3390/su14105806>
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85130757438&origin=resultslist&sort=plf-f&src=s&sid=48651fd2c811e6ec331986996672a8db&sot=b&sdt=b&s=TITLE-ABS-KEY%28Revealing+Consumer+Behavior+toward+Green+Consumption%29&sl=67&sessionSearchId=48651fd2c811e6ec331986996672a8db>

17 (96th percentile) - Citations in Scopus

4.32 - FWCI

67 - Views count

2. Valiyev, A., Rustamov, F.V.O., Huseynova, R.A., Orujova, M.S., Musayeva, S.N. **The Digitalization Effectiveness as an Innovative Factor Development of the Agriculture in Azerbaijan**. 2022. Journal of Eastern European and Central Asian Research. 9(2), pp. 194-205.

10 (86th percentile) - Citations in Scopus

2.01 - FWCI

14 - Views count

There is one master thesis publication defense in 2023:

Assessment of Investment Opportunities for Recycling Food Waste (production, sale, and consumption) in Azerbaijan

AUTHOR: Zeynalov Mehran and Abdullayeva Aysel

SUPERVISOR: Aynura Ismayilova

https://drive.google.com/file/d/1TIQOd9vn9RE3g-6LOHCD2HdII0_Elt5C/view

2.2. Campus food waste

Considering that the majority of AzTU students come from the regions, dormitory, and student accommodation problems were taken into consideration.

AzTU has:

- 6 buildings with 5 floors,
- 1 unfinished building,
- totally 2400 rooms on campus.

It has been suspended for a full renovation in 2023 to provide students with modern living standards. In 2024, the campus will be made available to students with the most modern conditions.

AzTU also offers a rest camp for the social security of students and teaching professors. Now, the camp is suspended due to its repair.

❖ There is no monitoring or accounting of food waste at AzTU. However, there is an intention to correct this, as efforts will be made to include a clause specifically relating to the measurement and management of food waste.

❖ AzTU actively works towards solving the issues of hunger prevention and sustainability in its canteens. For this purpose, it aims to carry out works in the following directions:

- food waste management,
- -support for disadvantaged students,
- -sustainable food choices,
- food safety,
- a multidisciplinary approach involving research and practical education in the field of agriculture.
- industrial cooperation and sustainable procurement policy.

These efforts demonstrate the university's commitment to promoting sustainability in agriculture and food services.

2.3. Student hunger

❖ Issues of hunger prevention among students were always in priority at the AzTU. Today, together with the Union of Students of AzTU, there is a program under which poor students are given vouchers for meals in the university canteen.

❖ The University canteen undergoes regular inspections by the Food Safety Agency of the Republic of Azerbaijan, and the canteen employees receive continuous training to maintain high food safety standards.

❖ AzTU canteen employees provide ongoing training to ensure high food safety standards. The university canteens are regularly inspected by the Food Safety Agency of the Republic of Azerbaijan and receive positive ratings.

<https://www.aztu.edu.az/az/news/azerbaycan-qida-tehlikesizliyi-institutunun-emekdaslari-aztu-da-telebelerle-gorusub-8403>

AzTU policy – ZERO HUNGER (SDG – 2)

Policy created: 2022.

Policy reviewed: not reviewed yet.

The policy strategies carried out by AzTU in terms of goals are as follows:

Conducting research and innovation:	<ul style="list-style-type: none">• Conducting research on various aspects of eliminating hunger at AzTU, including its causes, consequences, and possible solutions,• supporting the development of new technologies, policies, and strategies to combat hunger and poverty through research.
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Policy analysis and recommendations:	Preparation of scientifically based policy recommendations to universities, public institutions, non-governmental organizations (NGOs), and international organizations.
Training and skills development:	<ul style="list-style-type: none"> • Providing training to students and staff at AzTU on eliminating hunger. • Organizing specialized courses, training, and seminars on topics such as sustainable agriculture, food security and hunger reduction, • Providing training programs to the local community to increase the knowledge and skills required for sustainable development.
Partnerships and collaborations:	Establishing partnerships with government agencies, NGOs, and other stakeholders to help universities work on projects to reduce hunger.
Supporting sustainable agriculture and food systems:	<ul style="list-style-type: none"> • Conducting research at AzTU on sustainable agricultural practices, including techniques that increase crop and crop productivity, protect soil and water, and minimize environmental impacts. • Also, research and support alternative food production methods such as aquaponic systems, vertical farming, and agroforestry.
Public relations and outreach:	<ul style="list-style-type: none"> • AzTU actively engages with local communities to examine specific hunger-related issues, • conducting surveys, holding public forums, and creating propaganda programs.
Technology transfer and dissemination of knowledge:	<ul style="list-style-type: none"> • Facilitating the transfer of technology and knowledge developed at AzTU to local people, including sharing best practices in agriculture, • Provide access to improved seeds and animal species and exchange information on effective strategies to reduce poverty
Promotion and awareness campaigns:	Organizing projects, trainings, and seminars with the participation of AzTU to reach larger audiences by using various propaganda tools, including social media and other communication channels, and raising awareness about hunger-related problems.
Monitoring and evaluation:	Monitoring and evaluating programs and policies aimed at eliminating hunger within AzTU, conducting impact analyses and evaluations to measure the effectiveness of interventions by the university, and preparing regular recommendations for improvement.
Entrepreneurship and economic development:	Support by AzTU for the development of small and medium-sized enterprises (SMEs) that can contribute to economic growth and poverty reduction in agriculture, food processing, and other related sectors.
Food pantry or food bank:	Establishing a food pantry or food bank on campus to provide free or low-cost, quality meals to students and employees who may face food insecurity at AzTU.
Nutrition programs:	Implementation of nutrition assistance programs that offer food vouchers or non-refundable payments to students experiencing financial difficulties.
Nutrition training and seminars:	Organizing seminars, trainings, and courses for university staff on quality food choices and healthy eating habits.
Companion farms or “farm-to-table” initiatives:	Subsidiary farms or “farm-to-table” initiatives: Partnering with organizations that grow fresh produce

Partnering with local food suppliers:	Partnering with local food suppliers, grocery stores, and restaurants to offer students affordable, quality options and discounted prices for bulk purchases.
Dietary and other options:	Providing a variety of dietary options, including vegetarian, vegan, and allergen-free options, to meet the diverse dietary needs of university dining services.
Food Recovery and Savings:	Delivery of surplus food from canteens and cafeterias to local "food rescue" organizations for redistribution to those in need.
Engage student organizations:	Support student-led organizations and initiatives addressing hunger and nutrition issues on campus.
Research and data collection:	Conduct regular surveys or surveys to monitor food security in AzTU and ensure awareness of the implementation of targeted interventions.
Legal framework:	Supporting policy initiatives aimed at eliminating hunger and improving nutrition at institutional, local, and national levels.

2.4. Proportion of graduates in agriculture and aquaculture including sustainability aspects

Admission for the food engineering major has started in 2020. Considering this, there are currently no graduates in AzTU.

Table 1.

Data Collected	2022
Number of graduates	2351
Number of graduates from agriculture and aquaculture courses including sustainability aspects	0 <i>(food engineering specialty started from 2020)</i>

2.5. National hunger

- ❖ AzTU provided and finished some programs and seminars in 2022.
- ❖ AzTU with Karamanoğlu Mehmetbey University signed a memorandum on student training in food engineering and energy fields.

<https://www.aztu.edu.az/az/news/aztu-ile-karamanoğlu-mehmetbey-universiteti-arasında-memorandum-imzalanıb-8340>

- ❖ There are many local seminars and programs for students. The "Feed calculator" mobile application developed by the teacher of AzTU was presented to farmers. Students in food engineering specialty had an excursion to Agsu and Gabala and had an internship at the factories there. Employees of Azerbaijan Food Safety Institute met with students at AzTU.

AzTU provides support (social support) to low-income students (free of charge) participating in following courses, participating in training seminars, etc.:

- Seminar - Stepping on the path of job search - with State Employment Agency (DMA)
- About social entrepreneurship, business, and personal development - seminar -by Sara Rajabli

- From Idea to Business Development Center (BDC) - Seminar - Start coding the future today - with DIV Academy
- Students' Safety is in the spotlight - with ATGT, MFA
- Project management and organization with ATGTI, TGT
- Modern Marketing and brain with ATGTI, TGT
- Ways to gain career experience with ATGTI, TGT
- Ways to sell by establishing online personal branding with ATGTI, TGT
- A healthy marriage means a healthy family, a healthy society, a healthy future. - with Yasamal Youth and Sports Department, ATGTI, TGT
- Cv Center with ATGTI, TGT

<https://www.aztu.edu.az/az/news/aztu-nun-bas-muelliminin-hazirladigi-yem-kalkulyatoru-mobil-tetbigi-fermerlere-teqdim-olunub-7859>

<https://www.aztu.edu.az/az/news/qida-muhendisliyi-ixtisasi-uzre-tehsil-alan-telebelerin-agsu-ve-qebeleye-ekskursiyasi-teskil-olunub-8401>

<https://www.aztu.edu.az/az/news/azerbaycan-qida-tehlukesizliyi-institutunun-emekdaslari-aztu-da-telebelerle-gorusub-8403>

❖ AzTU has reached an agreement to strengthen university-industry cooperation with the "SAVALAN-ASPI Winery" enterprise operating in the Gabala region. It was agreed to take joint steps in the direction of internship and scholarship opportunities for students studying in food engineering specialties, strengthening of laboratory facilities at the university, considering the regional aspect, the approach to employing graduates.

<https://www.aztu.edu.az/az/news/aztu-numayende-heyeti-qebelede-quot-savalan-aspi-winery-quot-muessisesinde-olub-8214>