SUSTAINABLE DEVELOPMENT GOALS

REPORT 2025



GAZIPUR AGRICULTURAL UNIVERSITY

GAZIPUR 1706, BANGLADESH

VISION, MISSION AND OBJECTIVE OF GAU

Vision

Fostering quality teaching and research that develop highly skilled and educated people necessary to advancing the well-being of the nation in general and farming communities in particular.

Mission

Contributing to society through the pursuit of agricultural education, research and innovation for sustainable development.

Goal

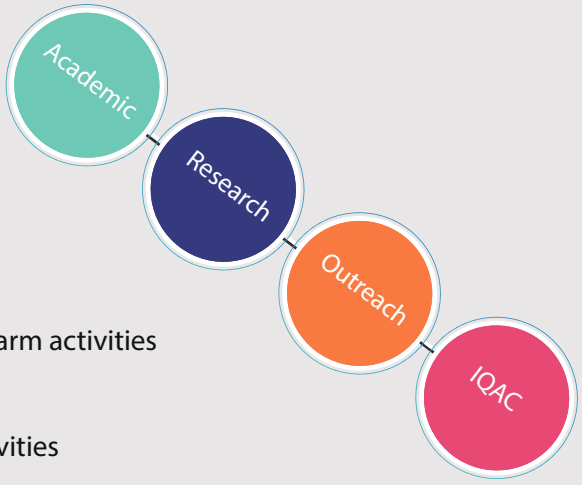
Enhancing the growth and development of the farm economy in Bangladesh by providing intellectual leadership and producing quality graduates in different fields of agriculture.

Objectives

- To serve as a "Center of Excellence" for agricultural education leading to BS, MS and PhD degrees.
- To provide an education consistent with international standards through well designed academic programs.
- To conduct basic and applied research to generate appropriate and sustainable technologies in the different fields of agriculture.
- To disseminate and transfer generated technologies to the end users through training and outreach activities.
- To provide policy support focusing on local and national issues within the national agricultural research framework with emphasis on food and nutrition securities of the country.



WINGS OF GAU



Academic

US Course-credit (Trimester) system of education

Research

Need-based basic and applied research using frontier technology

Outreach

Disseminate and transfer technologies through training and on-farm activities

Iqac

Responsible for coordination and carrying out the assurance activities

Faculty and Academic Departments

Faculty of Graduate Studies

All MS and PhD offering departments are under the umbrella of faculty of graduate studies

Faculty of Agriculture

- Agricultural Extension and Rural Development
- Agroforestry and Environment
- Agronomy
- Agricultural Engineering
- Agro-Processing
- Biochemistry and Molecular Biology
- Environmental Science
- Biotechnology
- Computer Science and Information Technology
- Crop Botany
- Entomology
- Genetics and Plant Breeding
- Horticulture
- Plant Pathology
- Soil Science
- Seed Science and Technology Unit

Faculty of Agricultural Economics and Rural Development

- Agricultural Economics
- Agricultural Finance and Cooperative
- Agribusiness
- Rural Development
- Statistics

Faculty of Agricultural and Bioresources Engineering

- Farm Machinery and Precision Engineering
- Irrigation and Water Resources Management
- Structures and Environmental Engineering
- Computer Science and Information Technology
- Food Engineering

Institute

Institute of Biotechnology and Genetic Engineering (IBGE)

- Plant Biotechnology
- Fisheries Biotechnology
- Veterinary and Animal Biotechnology
- Microbial and Industrial Biotechnology

Faculty of Veterinary Medicine and Animal Science

- Anatomy and Histology
- Animal Breeding and Genetics
- Animal Science and Nutrition
- Dairy and Poultry Science
- Gynecology, Obstratics and Reproductive Health
- Medicine
- Microbiology and Public Health
- Pathobiology
- Physiology and Pharmacology
- Surgery and Radiology

Faculty of Fisheries

- Aquaculture
- Fisheries Biology and Aquatic Environment
- Fisheries Management
- Fisheries Technology
- Genetics and Fish Breeding

Faculty of Forestry and Environment

- Forest Ecology
- Silviculture
- Wood Science and Technology
- Forest Protection
- Forest Policy and Management
- Agroforestry and Environment
- Natural Resource and Conservation
- Remote Sensing and GIS
- Environmental Hazard and Disaster Management

Institute of Climate Change

- Weather and Climate Modeling
- GHG Emission and Environmental Chemistry
- Stress Physiology and Molecular Biology
- Climate Resilience and Sustainability

Institute of Food Safety and Processing

- Bioresource Management and Utilization
- Functional Foods and Nutraceuticals
- Innovative Food Processing and Preservation
- Food Safety and Quality Control

GAU'S CONTRIBUTION IN ATTAINING SDGS OF BANGLADESH :

Gazipur Agricultural University (GAU) has celebrated silver jubilee, its 28th anniversary in this year 2025. It is one of the top public universities in Bangladesh, renowned for its outstanding education, research, and outreach initiatives (community engagement, non-academic services, and management practices). GAU is actively supporting the implementation of Sustainable Development Goals (SDGs) of Bangladesh in the subsequent ways:

EDUCATION:

GAU has updated/modified its course curriculum and started the Objective Based Education (OBE) in order to assist Bangladesh in achieving the SDGs. Six faculties of GAU are providing degrees in agriculture, fishery, veterinary medicine, agricultural economics and forestry & environment. Numerous courses/subjects both at undergraduate and postgraduate levels (MS and PhD) address the importance of sustainability and SDGs and how they might be implemented in practice. GAU equips students with the knowledge, skills, and motivation to understand and address the SDGs' challenges; empowers and mobilizes young people; provides in-depth academic training to implement SDG solutions; and enhances opportunities for capacity building of students and professionals to address SDGs challenges.

Almost all courses/subjects address SDGs issues; however, the following courses/subjects address specific SDGs:

GOAL 1 & 2: END POVERTY & ZERO HUNGER

- AEC 642 Food and Nutrition Economics
- AFE 512 Farming Systems
- AFE 611 Climate Change, Agroforestry and Food Security
- AGB 527 Climate Smart Agribusiness and Food Security
- AGR 501 Principles of Crop Production
- AGR 610 Climate Change and Crop Production
- ENS 575 Organic Agriculture & Food Security
- ENT 518 Integrated Pest Management
- HRT 501 Principles of Vegetable Production
- HRT 506 Principles of Fruit Production
- RDV 231 Rural Development
- RDV 435 Poverty Studies
- DPS 201 Poultry Production & Management
- DPS 601 Dairy Animal production

GOAL 5: GENDER EQUALITY (ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS)

AER 540 Gender Issues and Youth Programs in Agriculture

RDV 201 Gender Studies

RDV 265 Anthropology

RDV 265 Anthropology

RDV 361 Social Demography

RDV 212 Anthropology and Forest Tribology

GOAL 6: ENSURE AVILABILITY ANDSUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

AGE 501 Water Resources and Irrigation

AGE 511 Irrigation System Management and Evaluation

AGE 514 Drainage of Agricultural Lands

NRC 380 Biodiversity Conservation

FOE 301 Forest Hydrology and Watershed Management

GOAL 13: CLIMATE ACTION (TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS)

AEC 232 Natural Resource Economics

AEC 550 Resource and Environmental Economics

AFE 521 Environmental Pollution & Protection

AFE 611 Climate Change, Agroforestry and Food Security

AGB 527 Climate Smart Agribusiness and Food Security

AGR 255 Agro-climatology

AGR 610 Climate Change and Crop Production

ENS 541 Global Warming and Climate Change

ENS 545 Environmental Hazards & Disaster Management

EDM 424 Climate Change Adaptation and Mitigation

DM 458 Environmental Impact Assessment

GOAL 14: LIFE BELOW WATER

FMG 101 Freshwater Ecology

FMG 201 Estuarine and Marine Ecology

FMG 131 Estuarine and Marine Ecology

FMG 402 Oceanography and Marine Biology

AQC 101 Principals of Aquaculture

AQC 261 Coastal Aquaculture and Mariculture

GOAL 15: LIFE ON LAND

AFE 237 Introductory Agroforestry and Environment

AFE 301 Fundamentals of Agroforestry and Environmental Science

AFE 507 Social Forestry

AFE 618 Biodiversity Conservation and Management

AFE 603 Homestead Agroforestry and Management

FPM 271 Sustainable Forest Management

RESEARCH:

GAU is actively promoting the SDGs as a research topic within the university. It is providing institutional support for the full spectrum of research approaches required to address the SDGs, such as interdisciplinary and trans-disciplinary study, collaboration with non-governmental organizations, private sectors, and farmers.

In 2025 GAU published a significant number of peer-reviewed scientific papers (total) that corresponds with the SDGs. The following are several scientific articles that pertain to particular SDGs:

RELATED SUSTAINABLE DEVELOPMENT GOALS SDG – 01: No Poverty

Begum, R., Ame, S., & Ethen, D. Z. (2025). Perception of and adaptation to climate change: the case of groundnut production of coastal island in Bangladesh. Frontiers in Climate, 7, 1657507.

Jannat, S. T., Afrad, M. S. I., Haque, M. E., Hasan, S. S., & Ivy, N. A. (2025). Impact of BARI aam3 mango variety adoption on the growers' livelihood: Impact of BARI aam3 adoption on mango growers' livelihood. Bangladesh Journal of Agriculture, 50(2), 158-172.

Jahan, L., Acharjee, D. C., Amin, M. R., Misha, K. R. A., Rahman, K. T., Hasan, K., … Gosh, K. (2025). Assessing the Economic Viability of Small-Scale Sonali Chicken Farming in Rural Bangladesh: Insights from Jamalpur District. Annals of Bangladesh Agriculture, 29(1), 69–87.

Khandaker, T., Datta, A., Yesmine, T., & Mitra, S. (2025). Identifying Technical Efficiency Differences between Online and Traditional Banking System in Bangladesh. Journal of Bangladesh Agricultural University, 23(4), 524–531.

Mozumdar, L., Lindgren, S., & Nishat, N. (2025). Modern agrotechnology, women's empowerment and poverty reduction nexus: Mediation of farm performance; empirical evidence on BAU-STR dryer. World Development Perspectives, 37, 100673.

Nath, T. D., Biswas, A., & Ahmed, S. F. (2025). Livestock farming adoption in rural Bangladesh: Determinants and impacts on household income and women's dietary diversity. Food and Energy Security, 14(2), e70074.

Prodhan, F. A., Haque, M. E., Hoque, M. Z., Afrad, M. S. I., Pervez, A. K., Rahman, M. S., & Mia, M. M. (2025). Household Vulnerability and Agricultural Adaptation Strategies Under Changing Climate Conditions. In Sustainable Agriculture Management in Semi-Arid Climates (p. 127).

Rokonuzzaman, M., Prasad, D., Venketesh, A., Karmaker, S., Haque, Md. E., Rahman, H., & Nahian, M. H. (2025). Gender and Well-Being: A Case of the Garo Ethnic Group, Bangladesh-Inherently a Matrilineal Society. Social Change, 55(4), 648-663.

RELATED SUSTAINABLE DEVELOPMENT GOALS SDG – 02 : Zero Hunger

(Focus: Crop productivity, breeding for high yield and stress tolerance, soil fertility, pest and disease management, and livestock/aquaculture production)

Afrin, E., Akter, T., Baidya, A., Hossain, M. A., Islam, M. R., Das, M., Fatema, U. K., Alam, M. S., & Iqbal, M. A. (2025). Biofloc wastewater for microalgae (Chlorella ellipsoidea) production: an approach to algal biomass production and nutrient remediation. Journal of Applied Aquaculture, 1–21.

Afrin, S., Siddique, S. S., Hossain, A., Hossain, M. M., Islam, S. M. N., & Bhuiyan, M. A. B. (2025). Burkholderia contaminans: a potential soil-borne antagonist against Rhizoctonia solani causing black scurf and stem canker in potato. Annals of Bangladesh Agriculture, 29(1), 23-50.

Afreen, I., Manik, M. M. H., Miah, M. R. U., Ahmed, M., & Hossain, M. S. (2025). Pest status, abundance and diversity of insect pests harboring on soybean. Annals of Bangladesh Agriculture, 29(1), 13-22.

Ahmed, S. F., Ullah, H., Tisarum, R., Cha-um, S., & Datta, A. (2025). Protective role of silicon and potassium in enhancing root tolerance of rice against ferrous iron (Fe^{2+}) toxicity. Silicon, 1-21.

Akter, M., Keya, S. S., Gupta, A., Islam, R., Rahman, A., Hussain, M. M., Kien, N. H., Tahiat, T., Alam, K. A., Le, T. D., Ahmed, M., Tran, L. S. P., & Rahman, M. M. (2025). Genotypic Control of Root Sodium Uptake Drives Ion Imbalance and Stress Sensitivity under Salinity and Waterlogging. Plant Science, 366, 112709.

Akter, M., Mia, R., Hasan, S. M. N., Mozumder, A., Jeba, N., Farazi, R., Akter, F., Akter, S., Rahman, M. Z., Saha, S., Islam, T., & Hossain, M. G. (2025). Genomic and pathological insights into the first identified genotype IIIb chicken anemia virus strain in Bangladesh. Microbiology Spectrum, 13(11), e0079625.

Akter, M. T., Mannan, M. A., Al Mamun, M. A., & Akter, M. (2025). Nanoparticle-mediated modulation on growth and yield of soybean under salinity stress. Annals of Bangladesh Agriculture, 29(2), 157–174.

Akter, M. T., Mannan, M. A., Bari, N., Akter, M., Dola, D. B., Islam, N., Zulfiqar, U., Beltagi, H. S. E., & Prasad, P. V. V. (2025). Two-year evaluation and integrative screening of waterlogging-tolerant sesame genotypes: Insights from seedling stage to physiological, biochemical, and yield traits. Archives of Agronomy and Soil Science, 71(1), 1–20.

Akter, N., Islam, M. R., Karim, M. A., Miah, M. G., & Rahman, M. M. (2025). Boro rice cultivation practices and adaptive strategies of farmers to flash floods in Sylhet haor basin. International Journal of Agronomy and Agricultural Research, 26(6), 7-18.

Akter, S., Mamun, M. A. A., Zaman, E., Alam, M. S., & Karim, M. A. (2025). Yield performance and seed quality of wheat under different levels of foliar zinc application at vegetative and reproductive stages. Acta Biologica Szegediensis, 69(2), 108-117.

Akter, T., Das, M., Noman, S., Islam, M. R., & Bristy, F. S. (2025). Effect of dietary Spirulina platensis supplementation on growth, carcass composition, and haematological parameters of pabda (Ompok pabda). Online Journal of Animal and Feed Research, 15(4), 198-209.

Al-Amin, H. M., Rahman, M. M., Islam, M. R., Rees, R. M., Alam, M. S., Adhya, T. K., et al. (2025). Village Level Fertilizer Management for Increasing Nitrogen Use Efficiency, Rice Yield and Household Income. Archives of Agronomy and Soil Science, 71(1), 1-19.

Alam, A. S. M. J., Saha, S. R., Suhag, M., Miah, M. G., Rahman, M. M., Islam, M. R., Riyadh, Z. A., & Mahmud, A. (2025). Supplementary biomass addition enhances the crop productivity: Evidence from a Gliricidia sepium-based alley cropping practices in Gazipur District of Bangladesh. American Journal of Agriculture and Forestry, 13(1), 38-48.

Alam, A. S. M. J., Saha, S. R., Suhag, M., Miah, M. G., Rahman, M. M., Islam, M. R., Ahammed, S., & Mondal, S. (2025). Evaluating the impact of Gliricidia sepium-based alley cropping practices on growth and yield of stem amaranth. American Journal of Agricultural Science, Engineering, and Technology, 9(1), 8-17.

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Al-Fuad, A. K., Akther, S., Zakaria, M., Swapon, M. A. H., Chowhan, S., & Roni, M. S. (2025). BARI Tomato-19 as a promising cultivar: A comparative study of growth, quality, and yield attributes. Madras Agricultural Journal, 112(4), 172-183.

Al Mamun, S. M., Khan, M. A. I., Ivy, N. A., Rahman, S. M., Sultana, M. S., Adhikary, S. K., & Islam, M. M. (2025). Enhancing genetic diversity and blast resistance in rice (Oryza sativa L.) through ethyl methane sulfonate (EMS) mutagenesis. Plant Breeding.

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SDG 13: Climate Action

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OUTREACH INITIATIVES

Besides Academic and Research, Outreach Programs of GAU also highly reputed Besides Academic and Research, Outreach Programs of GAU also highly reputed as a knowledge sharing wings. GAU's outreach center plays a significant role in addressing poverty and food security issues in the local community by providing training and disseminating knowledge and technologies to farmers. The GAU outreach centre is actively engaged in organizing various training activities to communicate and transmit the knowledge and technologies developed by thuniversity to local farmers and communities.

Activities:

Farmers' Training: The outreach centre conducts training programs for farmers. These programs likely include valuable information and practices related to agriculture and farming.

Technology Dissemination Fair: They organize events or fairs to showcase and disseminate the technologies and varieties developed by GAU to the local community as well as national level

Varieties and Technologies Dissemination: The center plays a role in spreading the GAU-released varieties and technologies in the local areas.

Students' Trainingand Seminar: It also provide training to the students of different levels, possibly in areas related to agriculture and sustainable development.

Training Focus Areas:

Transfer of GAU-developed Technologies: The training includes educating farmers on how to effectively use the technologies and innovations developed by GAU.

Crop Production: To ensure the continuous food and vegetable productions for the huge populations, the Outreach centre continuously organized different training for farmers.

Livestock and Poultry: Training covers aspects related to livestock and poultryfarming, which are essential for rural livelihoods.

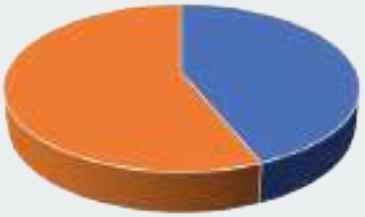
Reproduction and Disease Management: Farmers are likely trained in livestock and poultry reproduction, as well as disease management to improve the health of their animals.

Fisheries Management: The outreach centre provides training for farmers on effective fisheries management, which can be crucial for economic stability in rural areas.

The outreach center's training programs mostly align with Sustainable Development Goals (SDG) 1 and 2, which are "No Poverty" (SDG 1) and "Zero Hunger" (SDG 2). Additionally, the GAU outreach centre provided various trainings for government officials, scientists, and the corporate sector, including sustainable fertilizer management training, training on seed health, training on apiculture for livelihood and biodiversity linked to SDG 1, 2,5,6,13,14 and 15. In harmony with the SDG 4, outreach centre conducted a training on ‘Career Planning’ for undergraduate and post-graduate students of GAU in 2022. It also hosted a seminar titled ‘Role of GAU in Achieving SDGs in Bangladesh’ with the Honorable Vice-Chancellor as the chief guest and students as the participants in 2025.

Many faculties from GAU actively participate in national and regional seminars and workshops. These events focus on improving food security and reducing poverty, which aligns with the broader goals of the outreach center. Finally, GAU's outreach center acting a noteworthy role in addressing poverty and food security issues in the local community by providing training and disseminating knowledge and technologies to farmers. This contributes to achieving Sustainable Development Goals related to poverty reduction and food security.

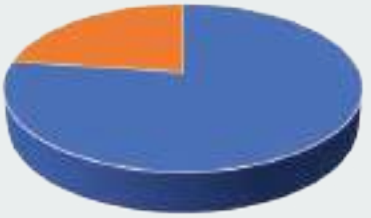
EXISTING STUDENTS, FACULTY MEMBERS AND NON-ACADEMIC STAFFS



Students

Male - 788

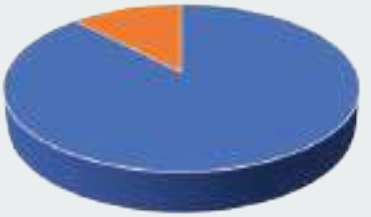
Female - 1084



Faculty Members

Male - 164

Female - 67



Non-Academic Staffs

Male - 349

Female - 56

STUDENT GRADUATION REPORT BASED ON GENDER

FACULTY	No of Students		
	Male	Female	Total
PhD (GSD)	303 (87%)	50 (13%)	353
MS (GSD)	1743 (60%)	1199 (40%	2942
Total MS & PhD	2046 (63%)	1249 (37%)	3295
BS (Agriculture)	605 (44%)	797 (56%)	1402
BS (Fisheries)	260 (52%)	278 (48%)	538
DVM	263 (60%)	179 (40%)	442
BS (Agril. Economics)	224 (40%)	355 (60%)	579
Forestry and	0	0	0
Total BS and DVM	1352 (46%)	1609 (54%)	2961
PGDRD	92 (70%)	29 (30%)	131
Grand Total	3490 (57%)	2887(43%)	6377



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