



New Bachelor

In "FOOD TECHNOLOGY"

Bachelor's Program "Food Technology"

The first cycle Bachelor's program in **"Food Technology"**, is an interdisciplinary program that combines the principles of food technology and engineering to prepare specialists with advanced technical, technological and professional competencies in the field of processing and production of various food products in order to address the challenges in the production, processing and safety of food products. This program aims to provide students with expanded knowledge on the properties of raw materials, processing and production technologies of various food products, with technical, scientific and management skills for improving quality and increasing food safety, sustainability and efficiency of the agri-food sector, which includes engineering aspects of agri-food technologies and the application of international quality and safety management standards in this industry.

Program Objectives

As part of the academic offer of the Agricultural University of Tirana, this program is harmonized with the strategic objectives for:

- The development of the agri-food sector in our country,
- Supporting the progress of this important economic segment. In this context, it is intended to strengthen the technological infrastructure of the country,
- Promote the improvement of the food industry and support the process of integration in the European market.

Key Competencies

The name **"Food Technology",** is highly suitable for the labor market in Albania, as it focuses on a key sector of the country's economic and industrial development. This study program combines engineering knowledge with its applications in the agro-food sector, preparing specialists who can contribute to food safety, agricultural product processing, and the development of innovative technologies in the food industry.

Career Opportunities

Students have the opportunity to be integrated into the

- Food industry, playing a key role in the production
- Food Safety and quality, innovation and sustainability of the food sector in our country. Their expertise allows them to contribute to various sectors including:
 - Food processing and production, safety and quality management, research and development, as well as government law enforcement agencies such as the National Agency of Food.

Curriculum Structure

The three-year program blends Natural sciences; Technology & Engineering; Economy, Social and Law; and Diploma, Elective courses, Internship.

- **1**st **Year**: Foundational courses in physics, mathematics, chemistry, biology. (50 ECTS).
- 2nd/ 3rd Year: Food Engineering, Food technologies and Microbiology, Biotechnology (70 ECTS).
- 2nd/ 3rd Year: Social economic courses, elective courses, internships, and a thesis project (60 ECTS).

Interdisciplinary Approach

- 25 % ECTS in Natural Science
- 40.6 % ECTS in Technical Science
- 17.8 % ECTS in Social-Economic Science
- 16.6 % ECTS in Diploma, Elective courses

Why Choose This Program?

Students who graduate from the Bachelor's study program in **"Food Technology"** profile have the opportunity to integrate into the food industry, playing a key role in the production, safety, innovation and sustainability of the food sector in our country and beyond. Their expertise allows them to contribute to various sectors including food processing and production, safety and quality management, research and development, as well as government law enforcement agencies. The continuous growth of this economic segment demonstrates the need for welltrained specialists who will contribute to the further development of this vital sector for the national economy.

CURRICULUM OF STUDIES

FIRST CYCLE STUDY PROGRAM (BACHELOR) "FOOD TECHNOLOGY"

Year I, Semester I (1)

	Modules	Credits	Less	on time		
Nr	woulles	ECTS	In Auditorium	Individua l study	Total	Category
1	Mathematics	5	60	65	125	А
2	General & Inorganic Chemistry	5	60	65	125	А
3	Physics	3	30	45	75	A
	Soil Science & Environmental Safety	3	30	45	75	D
5	Plant & Animal Raw Materials	8	90	110	200	A
6	Introduction to General & Molecular Biology	5	60	65	125	А
	Total	29	330	395	725	

Year I, Semester II (2)

	Modules	Credits	Lesson Time			Category A A B B
Nr	wouldes	ECTS	ln	Individual	Total	Category
			Auditorium	Study	Total 125 75 125 125 100 100 125 775	
1	Organic Chemistry	5	60	65	125	А
2	Genetics	3	30	45	75	А
3	Fundamentals of Heat and					
	Mass Transfer in Food	5	60	65	125	В
	Processing					
4	Analytical Chemistry	5	60	65	125	В
5	Food Law and Bioethics	4	45	55	100	С
6	General Microbiology	4	45	55	100	В
7	Bioinformatics and Biostatistics	5	60	65	125	D
	Total	31	360	415	775	

Year II, Semester I (3)

	Modules	Credits	Le	sson time		
Nr	wouldes	ECTS	In	Individual	Total	Category
		LCIO	Auditorium	Study	lotai	
1	Food Microbiology	5	60	65	125	В
2	Food Chemistry and Human	8	90	110	200	В
	Nutrition	0	90	110	200	D
2	Innovation and					
	Entrepreneurship in the Food	3	30	45	75	С
	Sector					
3	Meat Processing Technology	5	60	65	125	В
4	Basic Processes in the Food	5	60	65	125	В
	Industry	5	00	05	125	D
5	Food Biochemistry and	5	60	65	125	В
	Enzymology	5	00	05	125	D
	Total	31	360	415	775	

Year II, Semester II (4)

			Le	sson time		
Nr	Modules	Credits	In	Individual	Total	Category
		ECTS	Auditoriu	study		category
			m			
1	Enology, Alcoholic Beverage	5	60	65	125	В
	Technology	5	00	05	125	D
2	Dairy Processing Technology	5	60	65	125	В
3	Product Development and Food	5	60	65	125	С
	Marketing	5	00	05	125	C
4	Biochemistry and Biotechnology	8	90	110	200	В
	of Food and Fermentations	0	90	110	200	D
5	Elective Modules*	6	60	90	150	В
	Totali	29	330	395	725	

Year III, Semester I (5)

			Les	sson time		
Nr	Modules	Credits	In	Individual		Category
		ECTS	Auditoriu	study	Total	category
			m			
1	Cereal Processing Technology	6	60	90	150	В
2	Fundamentals of Bioengineering	5	60	65	125	В
2	Processes	5	00	05	125	
3	Fruit, Vegetable and Oil	8	90	110	200	В
3	Processing Technology	0	90	110	200	D
4	Quality Management in the Food	5	60	65	125	В
4	Industry	J	00	05	125	D
5	Elective Modules*	6	60	90	150	В
	Total	30	330	420	750	

Year III, Semester II (6)

			Le	sson time		
Nr	Modules	Credits ECTS	In Auditoriu m	Individual study	Total	Category
1	Business Administration and Organization	4	30	45	75	С
2	Project Management	4	30	45	75	С
3	Sociology of Food and Consumers	4	30	45	75	D
3	Elective Modules*	6	60	90	150	C/D
4	Professional Practice	6		90	150	D
5	Formal Exam/Diploma Topic	6		180	300	E
	 Cleaning & Sanitation Processes in IU 	3	30	40	75	С
	2. Food Technology in the Beekeeping Sector	3	30	40	75	В
	3. Soft Drink Technology	3	30	40	75	В
	4. Confectionery Technology	3	30	40	75	В

Total (1+2+3+4+5+6)	180	1860	2460	4500	
Total	30	150	420	750	
19. Technical English	3	30	40	75	D
18. Ecology	3	30	40	75	С
17. Innovative Management			-	_	-
	3	30	40 40	75 75	D C
Equipment in the Food Industry 16. Career Administration	3	30	40	75	D
15. Measuring and Control	3	50	40	/5	В
14. Engineering Processes	3	30 30	40 40	75 75	B
13. Innovative Management	3 3	30 30	40	75 75	C B
12. Rheology of Liquids	-	30	40	75 75	B
Analysis	3	20	40	75	п
11. General Knowledge in Food	3	30	40	75	L
Nutritional Sciences	3	20	40	75	С
10. General Knowledge in	3	30	40	75	В
9. Food Additives	3	30	40	75	В
8. Products of Controlled Origin	3	30	40	75	В
Industry	3	30	40	75	В
7. Technical Safety in the Food					_
6. Beer Technology	3	30	40	75	В
5. Food Packaging,	3	30	40	75	В