

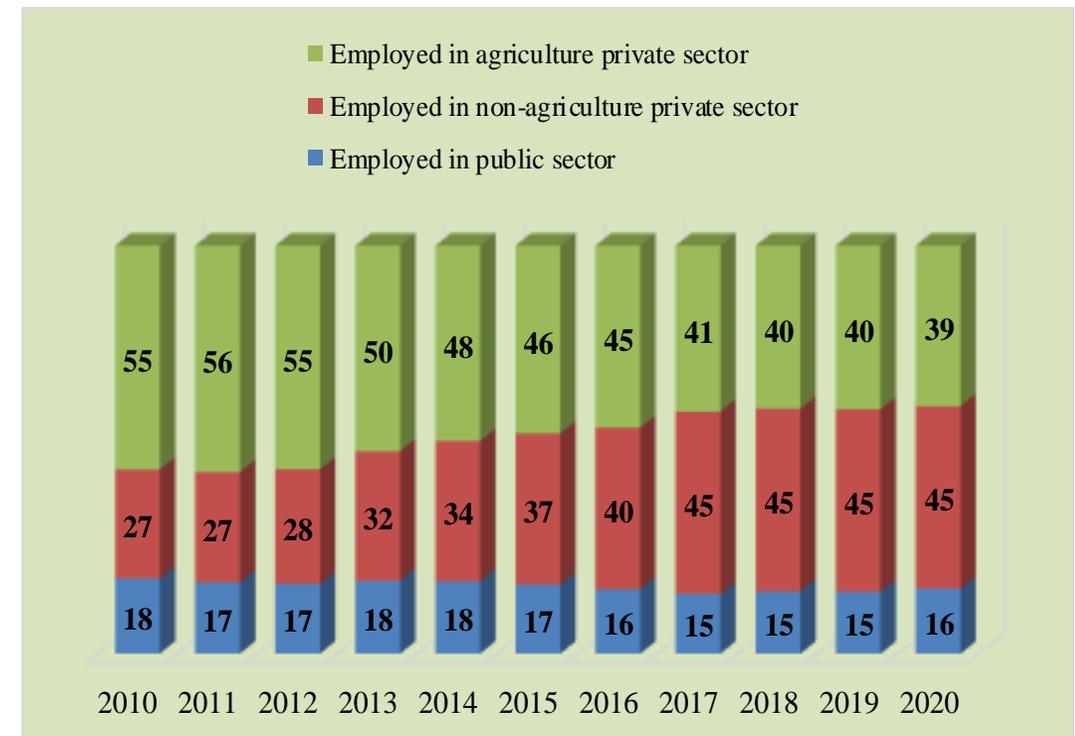
# Higher education in agriculture sciences in Albania - current situation, challenges and the future

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# Contribution to Employment of Agriculture, Food Sector & Subsectors

2010 vs 2020

- ❖ Contribution of Agriculture & Food sector in the economy accounts **21%** of the GDP
- ❖ Employment in the **agriculture sector** ↓ 16%
- ❖ Employment in **non-agriculture sector** ↑ 18%



Structure of employment by sector and year in %

# General Information

- ❖ 41 Higher Education Institutions operating in Albania
- ❖ Public (37%) vs Non-public (63%)

## Academic offer of Public HEI-s

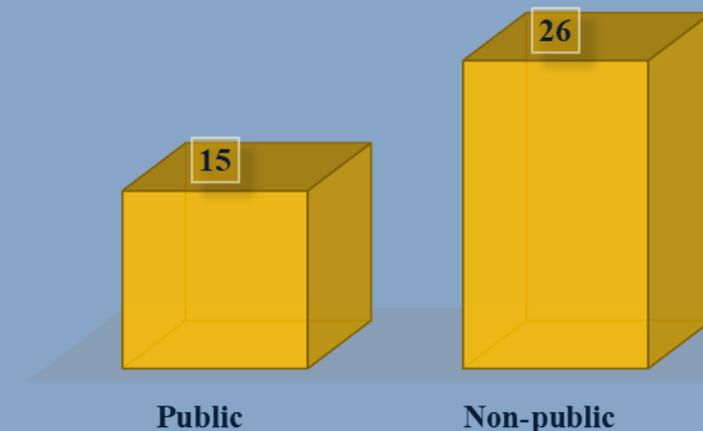
- ❖ 40 Associate Degrees, 309 Bachelor Degree Studies, 456 MSc/MP, 126 PhD/ME

## Academic offer of Non-public HEI-s

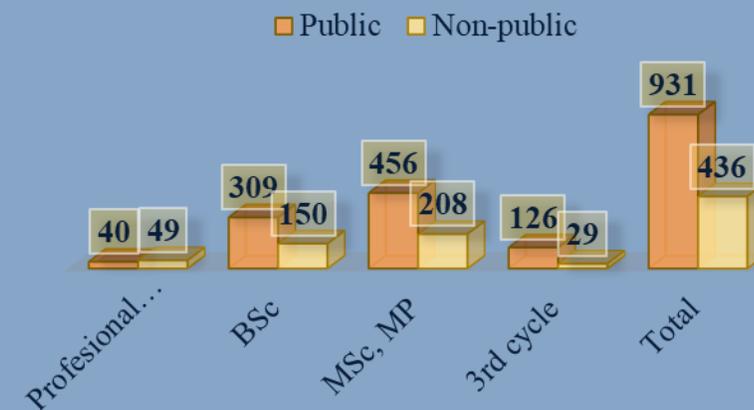
- ❖ 49 Associate Degrees, 150 Bachelor Degree Studies, 208 MSc/MP, 29 PhD/ME

*Public Universities offer consist of 495 study programs higher than Non-public HEI-s*

## HEI-s in Albania



## ACADEMIC OFFER OF HEI-S IN THREE STUDY LEVELS



## No. of Study Programs in Agricultural Sciences Nr. i programeve të studimit në Shkencat Bujqësore

### ❖ 41 Higher Education Institutions

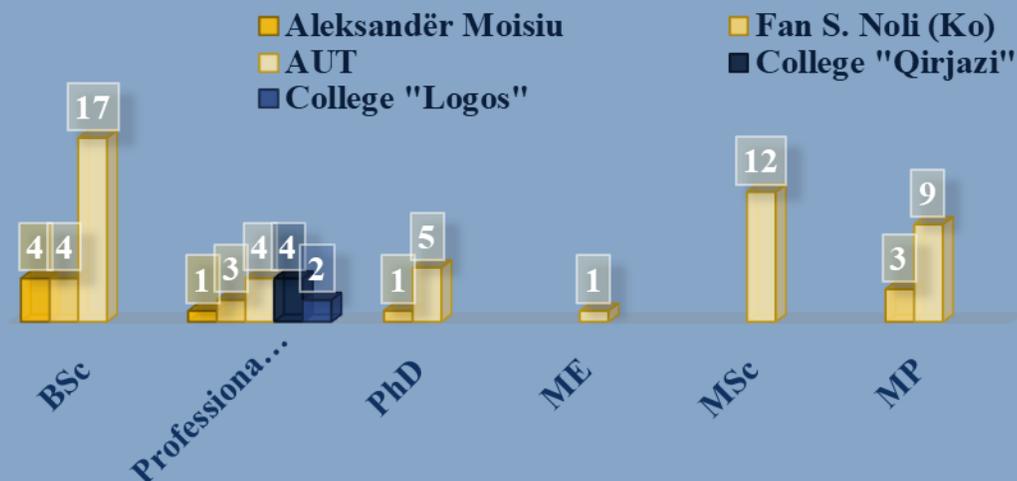
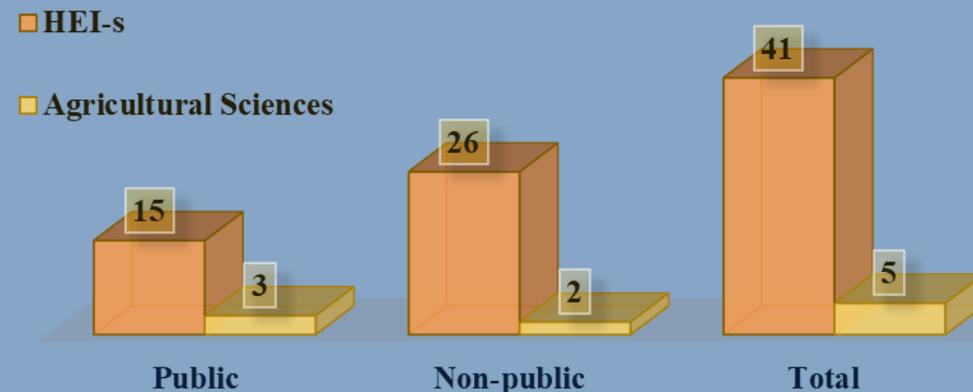
operating in Albania

### ❖ Public (37%) vs Non-public (63%)

### ❖ Agriculture Science programs offered in 5 HEI-s

- Agriculture University of Tirana
- “Fan S. Noli” University of Korça (Faculty of Agriculture)
- “Aleksandër Moisiu”, Durrës
- “Logos” College
- “Qirjazi” College

### HEI-s Offering Agricultural Oriented Study Programs



# General Information

## (Professional Diploma offered by HEIs)

### Diplomat profesionale të studimit ofruar në IAL

Study Programs	Institution	Duration (years)	ECTS
Agribusiness with profiles in “Marketing of agricultural products”, and “Agricultural Farm Management”	College "LOGOS"	2	120
Food technology in the profiles "Liquid and Water Technology", "Plant Product Technology" and "Animal Technology"	College" Qirjazi "	2	120
????	"Aleksandër Moisiu“ University	2	120
Techniques of seed and seedlings production	"Fan S. Noli" University, Korçë	2	120
Agriculture Business Management		2	
Veterinary management		2	
Technologist in agriculture	Agricultural University of Tirana	2	120
Agroturism and welcome		2	
Veterinary Management		2	
Zooveterinary		2	

## (BSc Offered by HEIs) Bachelor Ofruar në IAL

Study Programs	Institution	Duration	ECTS
Agrarian Engineering - Agro-Mechanization	Agriculture University of Tirana	3	180
Animal Science and Animal Origin Products Safety		3	
Agrarian Engineer in Agronomy		3	
Agrobiology		3	
Biotechnology in Zoo-veterinary		3	
Viticulture - Oenology		3	
Agrarian Engineer in Horticulture		3	
Agrarian Engineer in Landscape Architecture		3	
Agrarian Engineering with profile Plant Protection		3	
Agro-Environment Engineering		3	
Agri-food Engineering with profile Agri-food Technology		3	
Agri-food Engineering with profile Viticulture Enology		3	
Forest Management		3	
Wood Processing		3	
Wood Processing Engineering, Profile: Furniture and Interior Design”	3		

## (BSc Offered by HEIs) Bachelor Ofruar në IAL

Study Programs	Institution	Duration (years)	ECTS
Agribusiness Management	"Fan S. Noli" University of Korça	3	180
Medicinal Plants & Horticulture		3	
Agri-Engineering		3	
Agri-Nutrition		3	

# (Professional Master Offered by HEIs)

## Master Profesional ofruar në IAL

Study Programs	Institution	Duration (years)	ECTS
Integrated Rural Development	"Fan S. Noli" University, Korçë	1	60
'Agrarian Engineering', profile: 'Horticulture'		1	
Food quality and safety		1	
Plant Cultivation Technology	Agricultural University of Tirana	2	120
Agricultural Extension and Communication		2	
Advanced Technologies in Horticulture		2	
Landscape Architecture		2	
Plant Protection and Phytopharmacy		2	
Livestock Business		2	
Environmental Management		2	
Rural Development and Sustainable Environment		2	
Food Quality and Safety		2	

## (Master of Science offered by HEIs) Master Shkencor ofruar në IAL

Study Programs	Institution	Duration (years)	ECTS
Agrarian engineering: a. Horticulture; b. Plant protection; c. Agricultural Sciences; d. Livestock and animal origin food Safety; e. aquaculture	Agricultural University of Tirana	2	120
Management of natural Resources		2	120
Management of Irrigation, Drainage and Mechanization		2	120
Genetic Resources of Plants		2	120
Renewables Energies		2	120
Plant Medicine		2	120
Agro-Environment Engineering		2	120
Agrifood Engineering with profile: a. Viticulture - Oenology; b. Agrifood Technology		2	120
Forest Engineering		2	120
Wood Processing Engineering		2	120
Food Biotechnology		2	120
Veterinary Medicine		5	300

## (Third Cycle Offered by HEIs) Cikli Tretë Ofruar në IAL

Study Programs	Institution	Duration (years)	ECTS
Planning and territory development in rural areas	Agricultural University of tirana	2	120
Sustainable Horticulture	"Fan S. Noli" University, Korçë	3	60
Agriculture and Environment, directions: a. Environmental Sciences; b. Horticultural Sciences; c. Agronomic Sciences; d. Plant Protection Sciences; e. Animal Product sciences	Agricultural University of Tirana	3	60
Forest Sciences with profiles: a. Governance and Sustainable Forest Resources and Pasture; b. Wood Technology			
Food Science & Biotechnology		3	

## Enrollments of students in tertiary education

- ❖ The number of students enrolled in tertiary education is on a decreasing trend (**-11% compared to 2018**).
- ❖ Only programs related to engineering, health and services have maintained a positive trend.
- ❖ The number of students enrolled in agriculture oriented programs has decreased by (**-30% compared to 2018**).

Level of Education	2018-2019	2019-2020	2020-2021
2 years study programs (Associate degree)	4,198	5,342	5,849
Bachelor	89,231	82,669	74,382
Master	43,749	40,113	41,549
Doctorate	4,198	2,140	2,017
<b>Total</b>	<b>139,043</b>	<b>130,264</b>	<b>123,797</b>

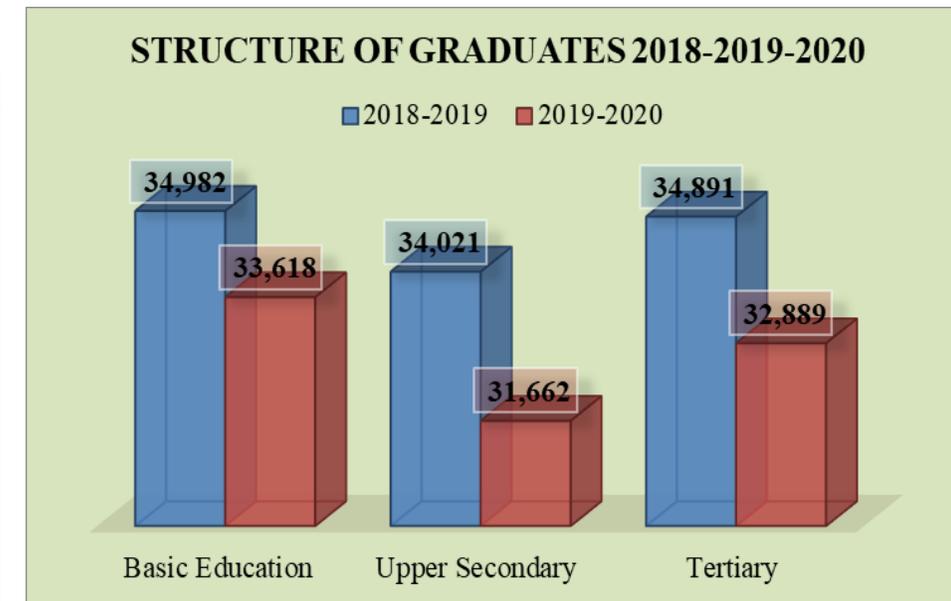
Structure of students enrolled in tertiary education

Level of education	2018-2019	2019-2020	2020-2021
Education	10,062	9,062	8,367
Arts and humanities	14,348	12,537	10,972
Social sciences	14,086	11,397	10,277
Business, administration & law	33,447	32,732	31,173
Natural sciences	7,060	5,962	4,924
Information and communication technology	10,016	8,883	8,341
Engineering, manufacturing and construction	20,019	20,775	20,537
Agriculture, forestry, fisheries and veterinary	<b>4,999</b>	<b>4,158</b>	<b>3,458</b>
Health and welfare	20,727	20,199	21,195
Services	4,279	4,559	4,553
<b>Total</b>	<b>139,043</b>	<b>130,264</b>	<b>123,797</b>

Structure of students enrolled by field of study

## Graduation data

- ❖ The number of graduates in all the levels of the Albanian education system is on a decreasing trend year by year.
- ❖ Graduates in basic education have marked a decrease by 3.9%, in upper secondary education 6.93% and tertiary education 5.74%.



Structure of graduates according to education level

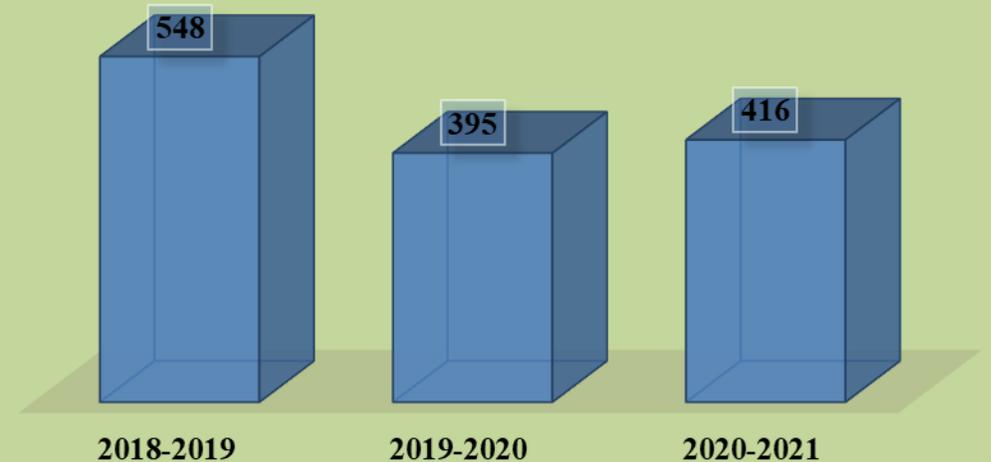
Source: INSTAT

# Number of Students following Agriculture Oriented Programs

## *Agriculture Faculty (UNIKO)*

❖ On the academic year 2020-2021, there is a negative trend – **24%**, compared to 2018 – 2019.

**TOTAL NUMBER OF STUDENTS IN THREE CONSECUTIVE YEARS**



**Students registered in Agriculture Faculty of UNIKO  
(2018-2019-2020)**

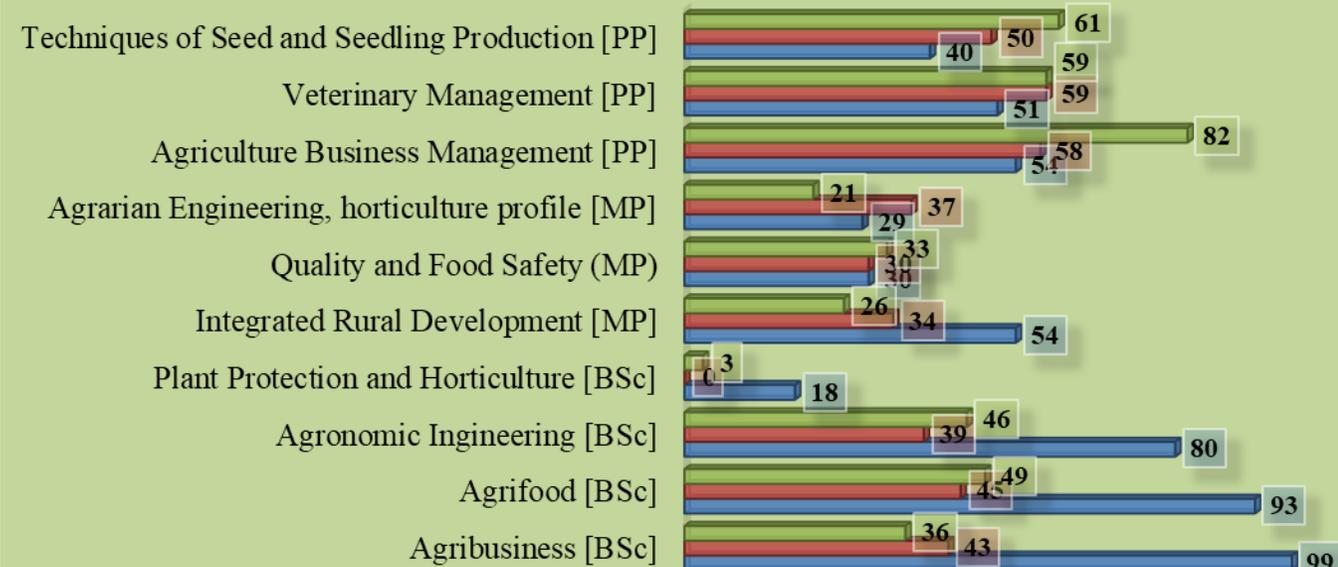
# Number of Students following Agriculture Oriented Programs

## *Agriculture Faculty (UNIKO)*

- ❖ **Increase** on the number of students enrolled in **Associate Degree programs**
- ❖ **Decrease** on the number of students enrolled in **BSc & MP**

### TREND OF REGISTERED STUDENTS IN AGRICULTURE FACULTY ACCORDING TO STUDY PROGRAMS "FAN S. NOLI" UNIVERSITY

■ 2020-2021 ■ 2019-2020 ■ 2018-2019

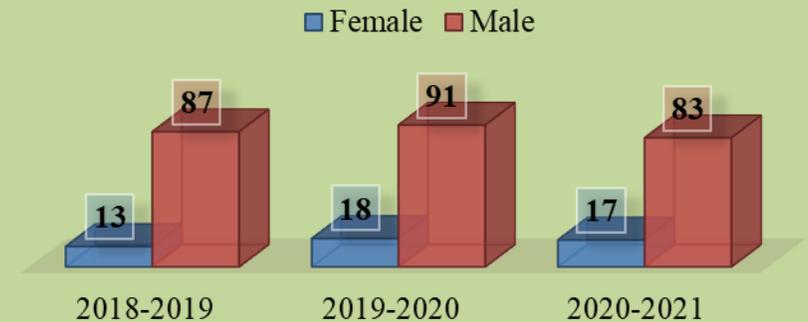


# Characteristics of Students in Agriculture Oriented Programs

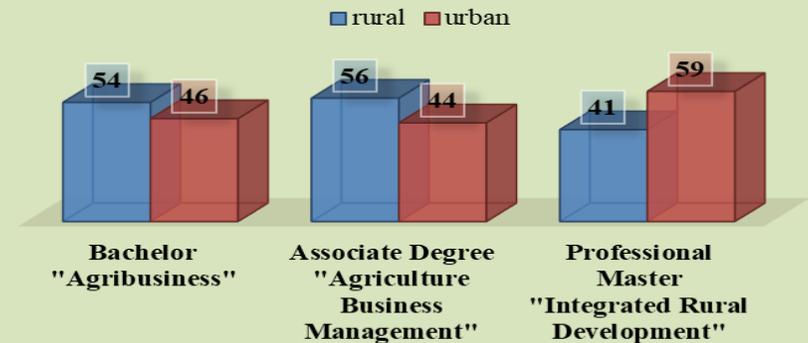
## *Agriculture Faculty (UNIKO)*

- ❖ Agriculture related programs are mostly frequented by males.
- ❖ Around **55%** of the students enrolled “Agribusiness Management“ in UNIKO , come from **rural areas**

RATIO IN % ACCORDING GENDER OF STUDENTS IN AGRICULTURE PROGRAMS



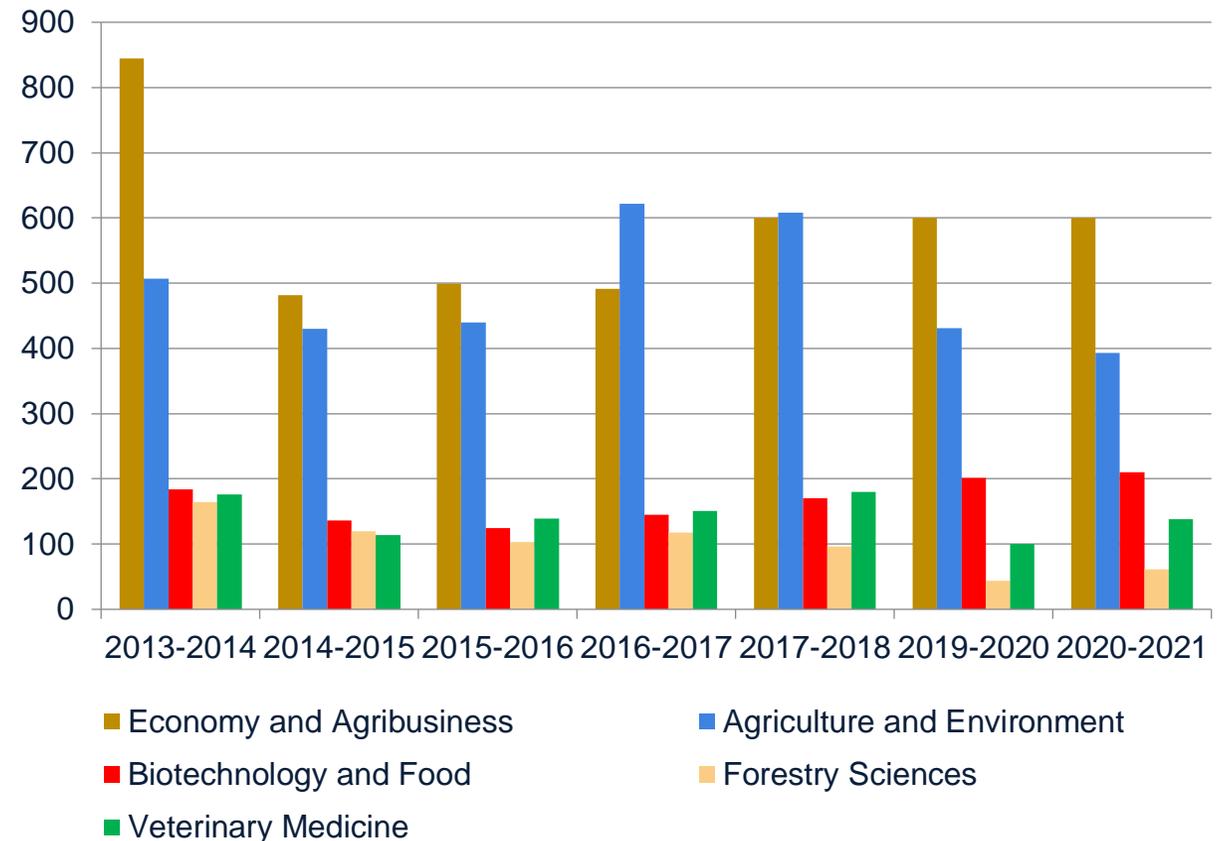
THE GEOGRAPHY OF STUDENTS ENROLLMENT IN TERMS OF URBAN & RURAL TERRITORIES IN %



## (Number of Students Registered in AUT)

### Numri i Studentëve të Regjistruar në UBT (Sipas Fakulteteve)

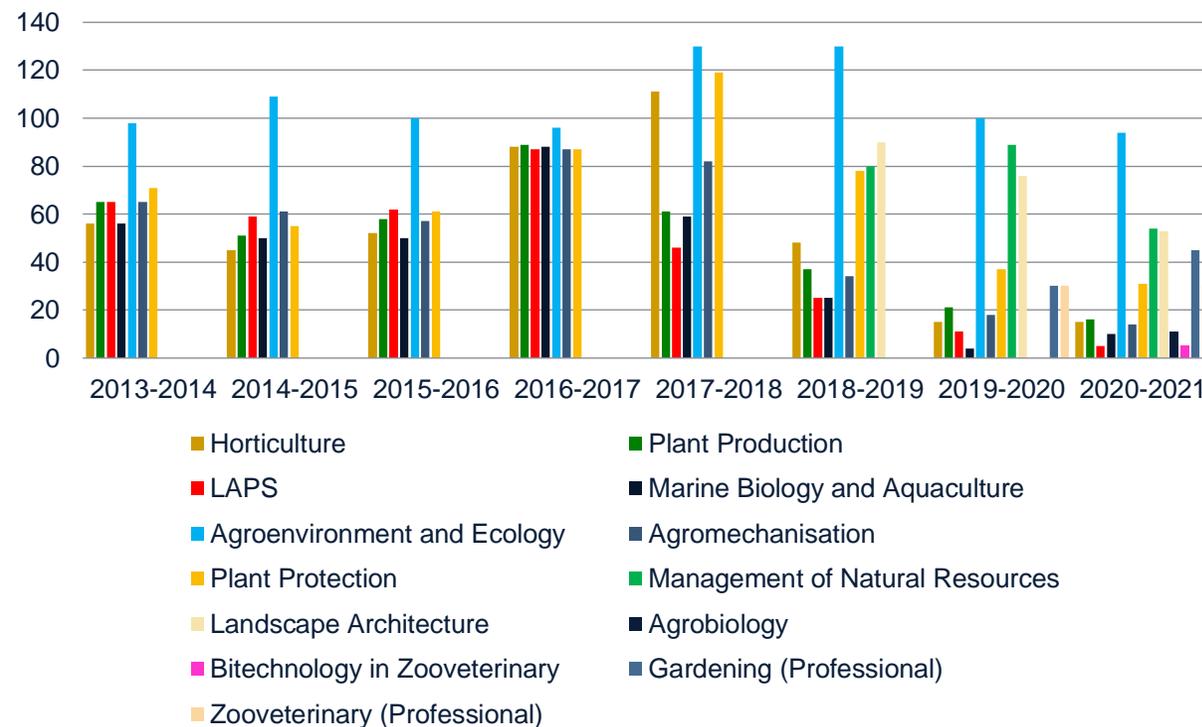
- ❖ Faculty of Economy & Agribusiness is frequented mostly (stable trend).
- ❖ Positive trend in terms of student enrollments at the Faculty of Biotechnology & Food.
- ❖ No of students enrolled at Faculty of Agriculture & Environment **-9%**, compared to 2019-2020.
- ❖ Negative trend at the Faculty of Veterinary Medicine & Forestry Sciences.



# Number of Students Registered in Faculty of Agriculture & Environment (Agriculture University of Tirana)

- ❖ Agroenvironment & Ecology is the most preferred study program (stable trend).
- ❖ Almost all other study programs are on a decreasing trend.

## Number of Students According to Study Programs in FAE

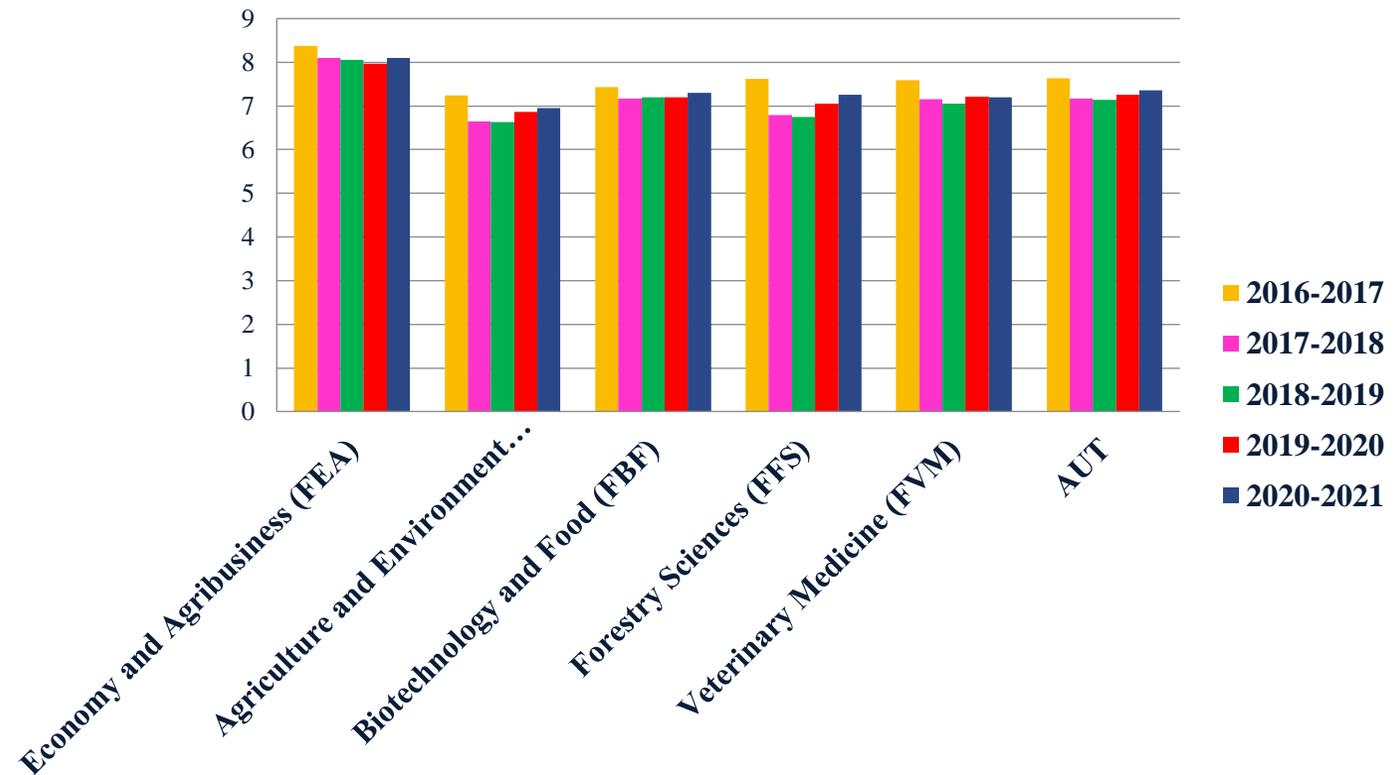


# Quality of Students (Average grade at entrance)

## Cilësia e Studentëve, Nota Mesatare në Hyrje

- ❖ Students enrolled at the Faculty of Economy & Agribusiness have the highest grade at entrance **(8.4-7.97)**.
- ❖ Students with higher grades choose to enroll to AUT.
- ❖ In the last five years, the average grade of students at the entrance, ranges from **7.63 – 7.14**.

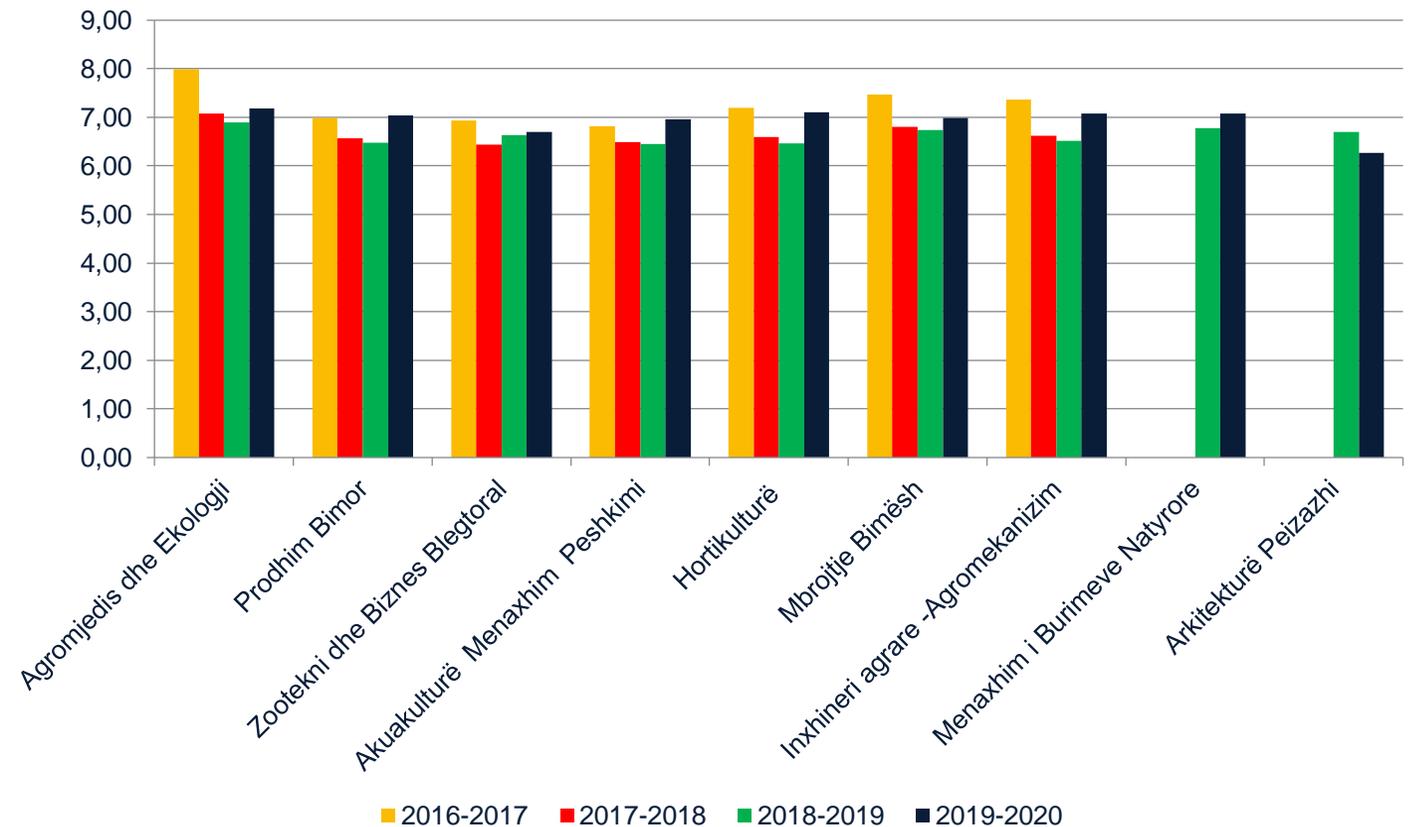
Average Grade of Students at Entrance  
According Faculties (UBT)



## Quality of Students - Average grade at entrance

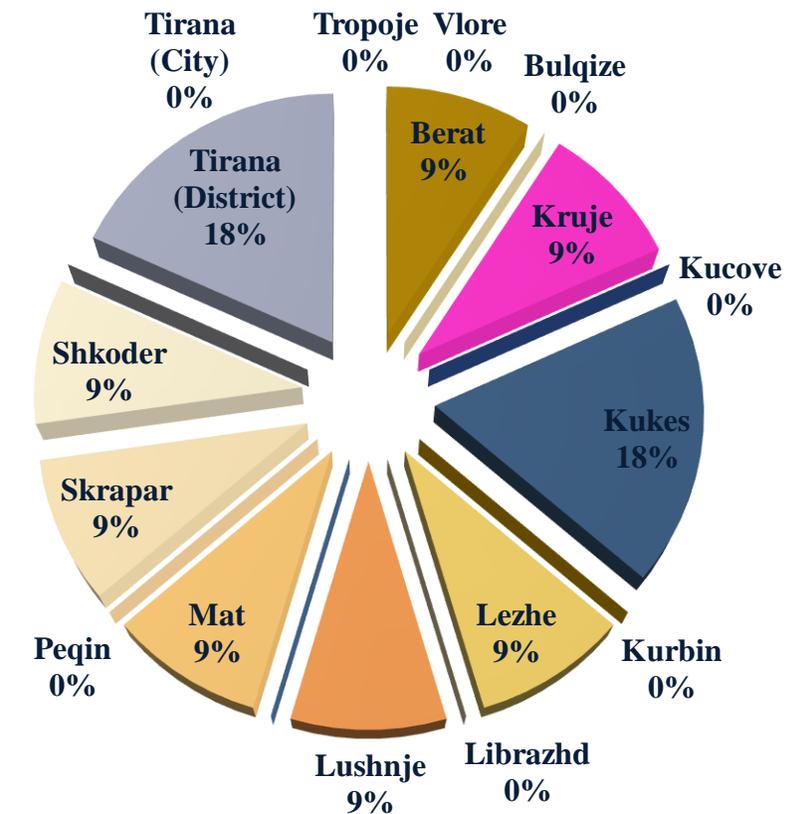
### Cilësia e studentëve, nota mesatare në hyrje (FBM)

- ❖ Students enrolled on Plant production and Landscape architecture possess the highest average grade at entrance (7.6-7.33).
- ❖ Students enrolled in LAPS, Marine Biology & Aquaculture and Zooveterinary have the lowest average grade (6.99–6.9)



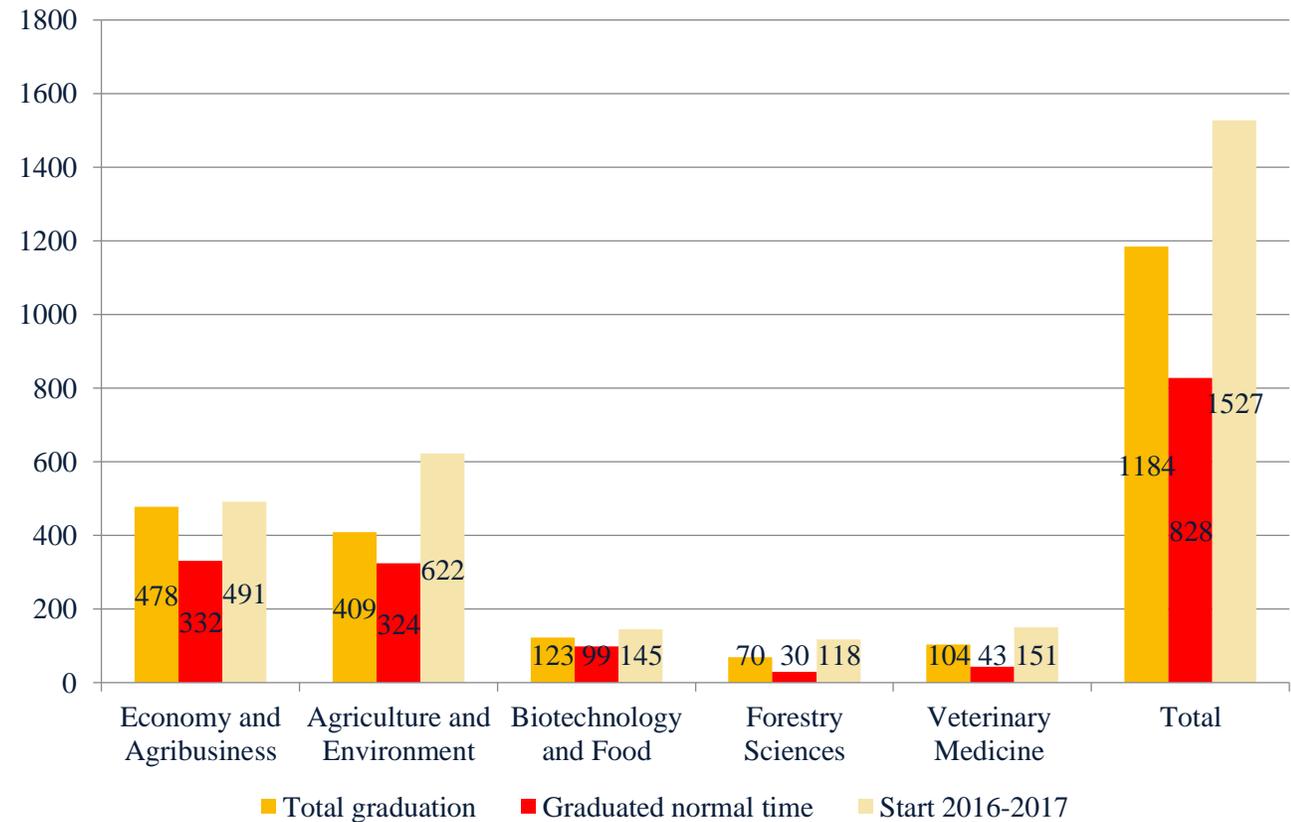
# Geographical Distribution of Students Registered in LAPS

❖ Students enrolled in LAPS, come mainly from the region of Tirana, North Albania & Middle Albania (no students from South)



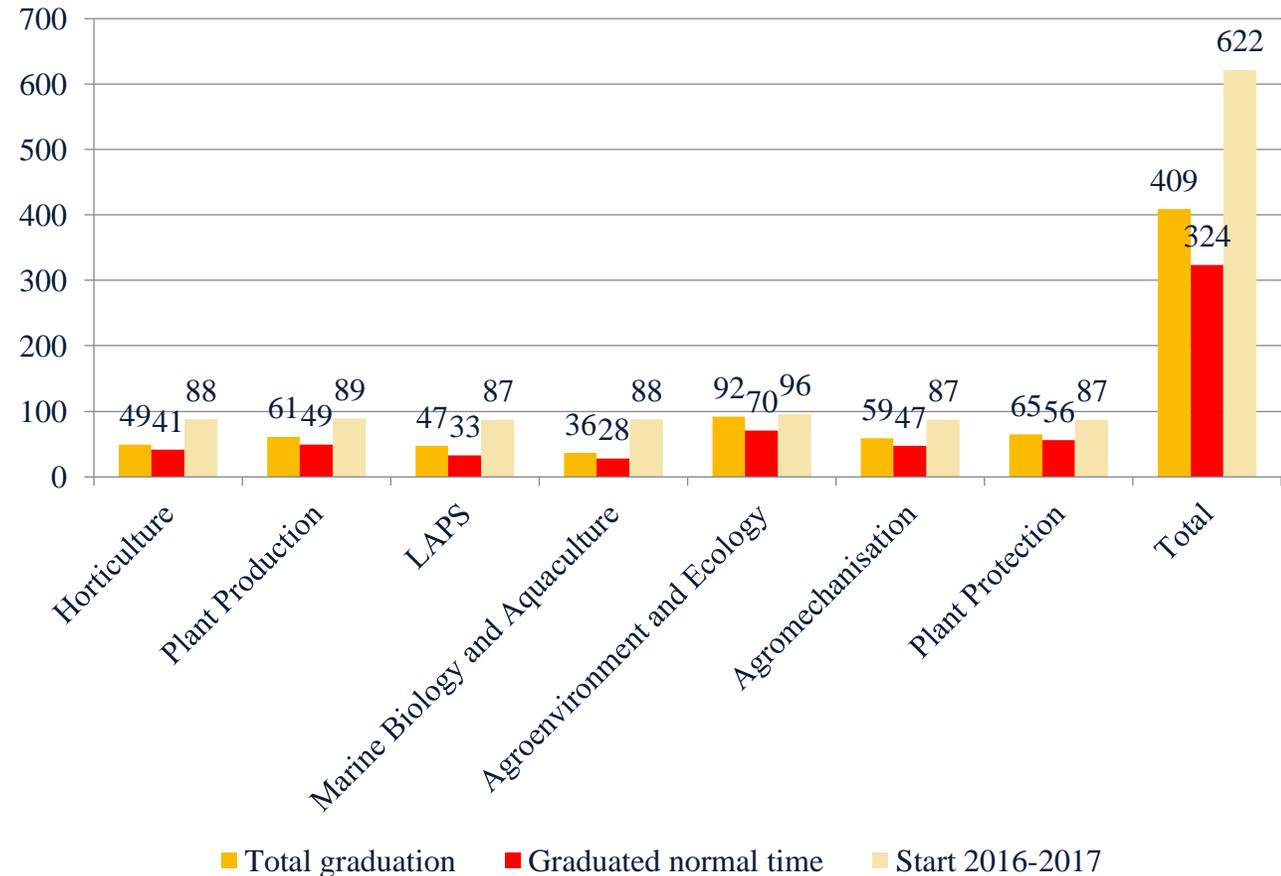
# Number of BSc Graduated Students UBT (2018 – 2019)

Faculties	% of students graduated at normal time
Economy and Agribusiness	67.62
Agriculture and Environment	52.1
Biotechnology and Food	68.28
Forestry Sciences	25.43
Veterinary Medicine	28.48
<b>Total</b>	<b>54.23</b>



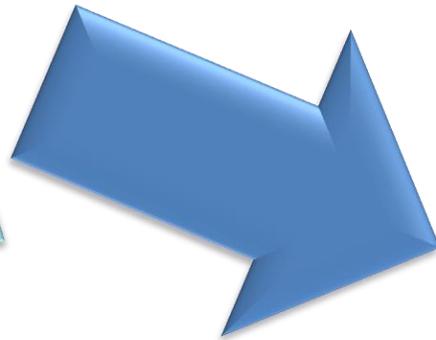
# Number of BSc graduated students Faculty of Agriculture & Environment 2018-2019

Study Programs	% of students graduated at normal time
Horticulture	46.6
Plant Production	55.06
<b>LAPS</b>	<b>37.94</b>
Marine Biology and Aquaculture	31.82
Agroenvironment and Ecology	72.92
Agromechanisation	54.03
Plant Protection	64.37
<b>Total</b>	<b>52.1</b>



## Challenges of Higher Education in Agricultural Sciences

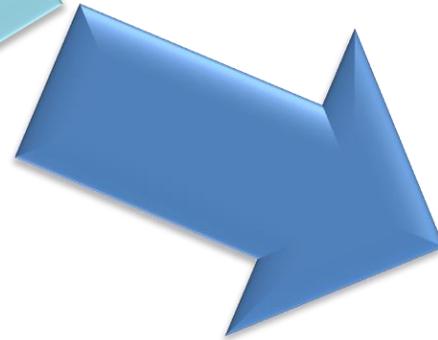
What is the main challenge?  
Offering a "university product"  
of highest quality and  
competitive in the labor market



➤ Higher education institutions *are struggling*  
to create effective linkages between technical,  
vocational education and training.

# Implications of Higher Education in Agricultural Sciences in Albania

**What about this ???**  
**Number of students and rural youth  
frequenting less agriculture related  
study programs**



- Development of the Agri-food sector and the related labor market
- Implementation of the Bologna reform in higher education in Albania
- Demographic trends
- Emigration of young people, high school & university graduates.

# Implications of Higher Education in Agricultural Sciences in Albania

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- Ne 15 vite të zbatimit të Procesit të Bolonjës edhe studimet në shkencat bujqësore dhe të ushqimit kanë pësuar **ndryshime të thella në strukturë dhe në përmbajtje**.
- Aktualisht afrohen 3 nivele të studimeve të larta, përvec atij të doktoratës, që klasifikohen në nivelt 5. 6 dhe 7 të KSHK. Ato afrohen nga UBT dhe UNIKO. Vetëm pak programe afrohen nga 2 IAL jo publike.
- Në këto tre dekada, studimet tretësore në fushën e bujqësisë dhe ushqimit janë bërë më **ndërdisciplinore** dhe spektri i tyre është zgjeruar në fushën e **mjedisit, të ushqimit dhe sigurisë ushqimore**, cka shpreh lidhjen e pandarë të bujqësisë me mjedisin dhe ushqimin. Roli kryesor i bujqësisë sot është USHQIMI i sigurtë për njeriun/popullsinë.

# Implications of Higher Education in Agricultural Sciences in Albania

- Studimet post **sekondare profesionale 2.vjecare** janë zhvilluar në vitet e fundit, jo vetëm në dhe, fatkeqësisht, duket se po destinohen vetëm për maturantët që kanë rezultate me të ulëta se 6,5. Nëse ata nuk do të kenë të drejtën të transferojnë kredite në ciklin Bachelor (VI) ato rrezikojnë të mos preferohen. Këtu ka një paqartësi ligjore, e cila mund të korigjohet sipas standarteve internacionale për këtë nivel, sidomos sipas Rekomandimeve të OECD (2010).
- Studimet universitare **Bachelor janë diversifikuar, por ato duket se cojnë në specializime të ngushta që në fillim të studimeve**, cka bën që studentët të priren të vijonë studimet e ciklit **Master në të njëjtin profil**, cka nuk u mundëson atyre për të shfrytëzuar fleksibilitetin që ka në themel Procesi I Bolonjës, dhe, për rrjedhojë, ata humbasin mundësinë për të përfituar një formimi më të gjërë profesional në më shumë se një drejtim / profil gjatë 5 viteve të studimeve universitare. Nisur nga përvoja e vendeve të tjera, duket se është I nevojshëm **reformimi I studimeve Bachelor për zgjerimin e bazës së formimit (gjeneralizimin)** për ti dhënë mundësi më të mëdha studentëve për zgjedhje dhe thellim/profilizim në ciklin e dytë.

# Implications of Higher Education in Agricultural Sciences in Albania

- Studimet e **ciklit II janë të mire diversifikuara** dhe japin mundësi për **thellim dhe profilizim** të mirë në shkencat bujqësore dhe të ushqimit.
- Nivelet e studimeve post sekondare dhe Bachelor në shkencat bujqësore dhe të ushqimit karakterizohen nga një **raport i pamajftueshëm i praktikës profesionale** në ciklin e studimeve, ku ajo nuk kapërcen 5 % të totalit të ECTS.
- **Diversifikimi e studimeve dhe të diplomave në të tre nivelet duket se nuk janë të shoqëruara me ndryshime e nevojshme në tregun e punës.** Lista Kombëtare Profesioneve ka mospërputhje të mëdha me nivelet, drejtimet, profile dhe diplomat përkatëse. Në mënyrë të vecantë diplomat Bacjelor dhe ato post-sekondare janë akoma shumë pak të njohura ne tregun e punës.
- Reformimi i mëtejshëm i studimeve universitare në shkencat bujqësore dhe të ushqimit kërkon analiza të thelluara të tregut të punës dhe bashkëpunim të ngushtë me aktorët e tregut të punës, cka përputhet edhe me strategjinë e shpallur nga qeveria për vitet 2021-2026.



**Thank You**