

New Bachelor
In “INFORMATION TECHNOLOGY IN AGRICULTURE AND
ENVIRONMENT”

STUDY CURRICULUM

Year I, Semester I (1)

No.	Courses	ECTS
1	Physics	5
2	Fundamental in Biology and Chemistry in Agriculture and Environment	5
3	Soil and Water Management	5
4	Mathematics	5
5	Basics of Informatics	5
6	Meteorology and Climatology, Climate Changes	5
	Total	30

Year I, Semester II (2)

No.	Courses	ECTS
1	Principles and Technologies of Plant Production	5
2	Technologies in Horticulture and Plant Protection	5
3	Technologies in Livestock Farming and Animal Welfare	5
4	Technologies in Aquaculture and Fisheries	5
5	Basics of Economics and Agricultural Policies	5
6	Statistics	5
	Total	30

Year II, Semester I (3)

No.	Courses	ECTS
1	Basics of Applied Mechanics and Electrical Engineering	5
2	Legislation in Agricultural, Environmental and Digitalization	5
3	Communication Techniques, Extension Service and Rural Sociology	5

4	Environmental Monitoring, Management and Information Systems	5
5	Business Management and Marketing	5
6	Database Management	5
	Total	30

Year II, Semester II (4)

No.	Courses	ECTS
1	Agricultural Mechanization	5
2	Economics of Natural Resources and the Environment	5
3	Electronic	5
4	Geospatial Technologies in Agriculture and Environment	5
5	Computer Network	5
6	Big Data in Agriculture and Applications in Python	5
	Total	30

Year III, Semester I (5)

No.	Courses	ECTS
1	Mechatronic Systems	5
2	Measurements and Sensors	5
3	Precision Farming	5
4	Precision Livestock	5
5	Software Applications in Agriculture and Environment	5
6	Basics of Automation	5
	Total	30

Year III, Semester II (6)

No.	Courses	ECTS
1	Introduction to Digital Agriculture	5
2	<i>Elective course</i>	5
3	<i>Elective course</i>	5
4	Internship	10

5	Final Comprehensive Exam/Thesis	5
	Total	30

Elective module

No.	Courses	ECTS
1	Territory Management	5
2	R Programming and Visualization	5
3	Codes and Data Security Transmission	5
4	Digital Public Governance	5
5	Good Agricultural Practices and Quality	5
6	Bioinformatics	5
7	English for Engineering students	5