

R E P U B L I C O F M A C E D O N I A
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE



STUDY PROGRAMMES AT FIRST CYCLE
UNIVERSITY'S STUDIES

FACULTY OF AGRICULTURAL SCIENCES AND FOOD - SKOPJE

РЕПУБЛИКА МАКЕДОНИЈА
УНИВЕРЗИТЕТ „Св. КИРИЛ И МЕТОДИЈ“ ВО СКОПЈЕ
ФАКУЛТЕТ ЗА ЗЕМЈОДЕЛСКИ НАУКИ И ХРАНА-СКОПЈЕ



REPUBLIC OF MACEDONIA
UNIVERSITY "Ss. CYRIL AND METHODIUS" IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE

Skopje, 2012

STUDY PROGRAMMES AT THE FACULTY OF AGRICULTURAL SCIENCES AND FOOD, SKOPJE

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STUDY PROGRAMME FIELD CROP PRODUCTION

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME - FIELD CROP PRODUCTION

FIRST SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Mechanization in Field Crop Production	4+2	6	Prof. Dr. Dragi Tanevski
3.	Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
	Total		30	

List of elective courses for the first semester

Courses	No. of hours	ECTS	Professor
Processing Equipment	4+2	6	Ass. Prof. Ile Canev
Statistics	3+2	6	Prof. Dr. Dragan Gjoshevski
Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
2.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
3.	Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azhderski
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the second semester

Courses	No. of hours	ECTS	Professor
Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
Zoology	4+2	6	Prof. Dr. Mirce Naumovski Ass. Prof. Katerina Belichovska
Principles of Economics	3+2	6	Prof. Dr. Jovan Azhderski
Basics in Animal Production	4+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Soil Science	4+2	6	Prof. Dr. Tatjana Mitkova
2.	Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
3.	Land Reclamation and Erosion Protection	4+2	6	Prof. Dr. Aco Gichev
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the third semester

Courses	No. of hours	ECTS	Professor
Geomatic Techniques in Agriculture	3+2	6	Prof. Dr. Marija Vukeljk Shutoska
Vegetable Crop Production	3+2	6	Prof. Dr. Gordana Popsimonova

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Field Crop Production with Agro-Ecology	3+2	6	Prof. Dr. Zvonko Pacanoski
2.	Irrigation of Field Crop Production	3+2	6	Prof. Dr. Ordan Chukaliev Ass. Prof. Vjekoslav Tanaskovikj
3.	Plant Nutrition	4+2	6	Prof. Dr. Marina Stojanova
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the fourth semester

Courses	No. of hours	ECTS	Professor
Fruit Production and Viticulture	4+2	6	Ass. Prof. Tosho Arsov Prof. Dr. Krum Boshkov
Honey Bee Products	4+2	6	Prof. Dr. Hrisula Kiprijanovska

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Industrial Crops	3+2	6	Prof. Dr. Zoran Dimov
2.	Grains and Tuberous Crops	3+2	6	Prof. Dr. Dane Boshev
3.	Forage Crop Production	4+2	6	Prof. Dr. Tatjana Prentovikj
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for the fifth semester

Courses	No. of hours	ECTS	Professor
Contemporary Genetic Methods	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
Eco-Field Crop Production	4+2	6	Prof. Dr. Tatjana Prentovikj

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-Compulsory courses				
1.	Tobacco Production	3+2	6	Ass. Prof. Romina Kabranova
2.	Grasslands	4+2	6	Prof. Dr. Tatjana Prentovikj
3.	Plant Breeding	4+2	6	Prof. Dr. Ljubomir Marinkovich
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the sixth semester

Courses	No. of hours	ECTS	Professor
Planning and Design of Open Urban Dreen Areas	3+2	6	Prof. Dr. Stefanka Hadzipecova
Fertigation	3+2	6	Ass. Prof. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev
Flower Production on Open Field	3+2	6	Prof. Dr. Stefanka Hadjipecova

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Quality and Processing of Tobacco Raw Material	3+2	6	Prof. Dr. Zlatko Arsov
2.	Phytopatology and Phytopharmacy	3+2	6	Ass. Prof. Biljana Kuzmanovska
3.	Management of Field Crop Production	3+2	6	Prof. Dr. Mile Peshevski
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
	Total		30	

List of elective courses for the seventh semester

Course	No. of hours	ECTS	Teacher
Medicinal and Aromatic Plants	2+1	6	Prof. Dr. Zoran Dimov
Malt and Beer Production	3+2	6	Prof. Dr. Dane Boshev

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Entomology and Phytopharmacy	3+2	6	Prof. Dr. Stanislava Lazarevska
2.	Technology of Tobacco Products	3+2	6	Prof. Dr. Zlatko Arsov
3.	Processing of Field Crops	3+2	6	Prof. Dr. Dane Boshev Prof. Dr. Zoran Dimov Prof. Dr. Tatjana Prentovikj
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Graduate Work				
-	Graduate Work	0+3	5	
	Total		35	

List of elective courses for the eighth semester

Course	No. of hours	ECTS	Teacher
Costs and Agricultural Budgets	3+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska
Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev
Food Quality and Safety Control with Legislation	3+2	6	Prof. Dr. Sonja Srbinska
Soil Degradation and Protection	3+2	6	Prof. Dr. Tatjana Mitkova

STUDY PROGRAMME VEGETABLE AND FLOWER CROP PRODUCTION

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME – VEGETABLE AND FLOWER CROP PRODUCTION

FIRST SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Mechanization in Vegetable and Flower Crop Production	4+2	6	Prof. Dr. Dragi Tanevski
3.	Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the first semester

Courses	No. of hours	ECTS	Professor
Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
Processing Equipment	4+2	6	Ass. Prof. Ile Canev
Statistics	3+2	6	Prof. Dr. Dragan Gjoshevski
Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
2.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
3.	Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the second semester

Courses	No. of hours	ECTS	Professor
Zoology	4+2	6	Prof. Dr. Mirce Naumovski Ass. Prof. Katerina Belichovska
Principles of Economics	3+2	6	Prof. Dr. Jovan Azhderski
Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska
Basics in Animal Production	4+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Soil Science	4+2	6	Prof. Dr. Tatjana Mitkova
2.	Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
3.	Vegetable and Flower Production	3+2	6	Prof. Dr. Gordana Popsimonova
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for the third semester

Courses	No. of hours	ECTS	Professor
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azhderski
Land Reclamation and Erosion Protection	4+2	6	Prof. Dr. Aco Gichev

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Nutrition of Vegetable and Flower Crops	4+2	6	Prof. Dr. Marina Stojanova
2.	Irrigation of Vegetable and Flower Crops	3+2	6	Prof. Dr. Ordan Chukaliev Ass. Prof. Vjekoslav Tanaskovikj
3.	Vegetable Production in Open Field	3+2	6	Prof. Dr. Rukie Agich
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the fourth semester

Courses	No. of hours	ECTS	Professor
Establishment and Cultivation of Orchards	4+2	6	Prof. Dr. Marjan Kiprijanovski
Establishment of Vineyards and Cultivation	3+2	6	Prof. Dr. Petar Hristov
Wild Edible and Poisonous Plants	3+2	6	Ass. Prof. Elizabeta Miskoska Milevska
Field Crop Production with Agro-Ecology	3+2	6	Prof. Dr. Zvonko Pacanoski
Plant physiology	4+2	6	Prof. Dr. Silvana Manasievska Simich
Agricultural policy	3+2	6	Prof. Dr. Dragi Dimitrievski

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Greenhouse Flower Production	3+2	6	Prof. Dr. Stefanka Hadzipecova
2.	Vegetable Cultivation in Greenhouses	3+2	6	Prof. Dr. Gordana Popsimonova
3.	Entomology and Phytopharmacy	3+2	6	Prof. Dr. Stanislava Lazarevska
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for the fifth semester

Courses	No. of hours	ECTS	Professor
Soil Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
Farm Management	3+2	6	Prof. Dr. Mile Peshevski

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Flower Crop Production on Open Field	3+2	6	Prof. Dr. Stefanka Hadzipecova
2.	Planning and Design of Open Urban Green Areas	3+2	6	Prof. Dr. Stefanka Hadzipecova
3.	Phytopatology and Phytopharmacy	3+2	6	Prof. Dr. Rade Rusevski
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the sixth semester

Courses	No. of hours	ECTS	Professor
Grasslands	4+2	6	Prof. Dr. Tatjana Prentovikj
Eco-vegetable production	4+2	6	Prof. Dr. Rukie Agich
Degradation and Soil Protection	3+2	6	Prof. Dr. Tatjana Mitkova
Herbology	4+2	6	Prof. Dr. Zvonko Pacanoski

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Postharvest of Vegetable and Flower Crops	3+2	6	Prof. Dr. Gjorgji Martinovski
2.	Medicinal and Aromatic Plants	2+1	6	Prof. Dr. Zoran Dimov
3.	Contemporary Genetic Methods	4+2	6	Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the seventh semester

Courses	No. of hours	ECTS	Professor
Geomatic Techniques in Agriculture	3+2	6	Prof. Dr. Marija Vukelikj Shutoska
Rural Development	3+2	6	Prof. Dr. Jovan Azhderski
Regulations in Agro-ecological and Organic Farming	3+2	6	Prof. Dr. Elizabeta Angelova

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Production of Seed and Seedlings in Vegetable and Flower Crops	3+2	6	Prof. Dr. Rukie Agich
2.	Quality Standards of Vegetable and Flower Crops	3+2	6	Prof. Dr. Gjorgji Martinovski
3.	Costs and Agricultural Budgets	3+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Graduate Work				
-	Graduate Work	0+3	5	
Total			35	

List of elective courses for the eighth semester

Course	No. of hours	ECTS	Teacher
Plant Breeding	4+2	6	Prof. Dr. Ljubomir Marinkovich
Biological Control and Non-pesticide Measures for Plant Protection	3+2	6	Prof. Dr. Slobodan Bandjo
Fertigation	3+2	6	Ass. Prof. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev
Vegetable Processing	3+2	6	Prof. Dr. Ljubica Karakashova

STUDY PROGRAMME ANIMAL BIOTECHNOLOGY

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME-ANIMAL BIOTECHNOLOGY

FIRST SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Animal Breeding	4 + 2	6	Prof. Dr. Sreten Andonov
2.	Anatomy of Animals	4 + 2	6	Prof. Dr. Mirce Naumovski
3.	Biochemistry	4 + 2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the first semester

Courses	No. of hours	ECTS	Professor
Chemistry	4 + 2	6	Prof. Dr. Biljana Petanovska Ilievska
Human Resources Development	3 + 2	6	Prof. Dr. Dragan Dimitrievski
Mechanization	4 + 2	6	Prof. Dr. Dragi Tanevski
Agroclimatology	4 + 2	6	Prof. Dr. Srebra ilikj Popova

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Genetics	4 + 2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
2.	Physiology of Animals	4 + 2	6	Prof. Dr. Metodija Trajchev
3.	Zoology	4 + 2	6	Prof. Dr. Mirce Naumovski Ass. Prof. Katerina Belicovska
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the second semester

Courses	No. of hours	ECTS	Professor
Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich
Principles of Economics	3+2	6	Prof. Dr. Jovan Azhderski
Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska

THIRD SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Basics of Animal Nutrition	3 + 2	6	Prof. Dr. Srechko Georgievski
2.	Forage Crops	4 + 2	6	Prof. Dr. Petre Ivanovski Prof. Dr. Tatjana Prentovikj
3.	Population Genetics	3 + 2	6	Prof. Dr. Sreten Andonov
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the third semester

Courses	No. of hours	ECTS	Professor
Microbiology	3 + 2	6	Prof. Dr. Jugoslav Ziberovski Prof. Dr. Olga Najdenovska
Technological microbiology	3 + 2	6	Prof. Dr. Jugoslav Ziberovski Prof. Dr. Olga Najdenovska

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Fisheries	4 + 2	6	Prof. Dr. Mirce Naumovski
2.	Applied Animal Nutrition	4 + 2	6	Prof. Dr. Srechko Georgievski
3.	Horse Breeding	3 + 2	6	Prof. Dr. Gjoko Bunevski
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the fourth semester

Courses	No. of hours	Credits	Professor
Eco-Animal Production	4 + 2	6	Prof. Dr. Vladimir Dzabirski
Feed Technology	3 + 2	6	Prof. Dr. Srechko Georgievski
Agricultural Policy	3 + 2	6	Prof. Dr. Dragi Dimitrievski
Wild Edible and Poisoned Plants	3 + 2	6	Ass. Dr. Elizabeta Miskoska Milevska

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Cattle Production	4 + 2	6	Prof. Dr. Gjoko Bunevski
2.	Management of Animal Production	3 + 2	6	Prof. Dr. Dragi Dimitrievski Ass. Prof. Ana Kotevska
3.	Goat Production	4 + 2	6	Prof. Dr. Vladimir Dzabirski
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the fifth semester

Courses	No. of hours	ECTS	Professor
Molecular Biology of Animal Cell	4 + 2	6	Ass. Prof. Blagica Dimitrievska Prof. Dr. Zoran Popovski
GMO	3 + 2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Pig Production	4 + 2	6	Prof. Dr. Vlado Vukovich
2.	Sheep Production	4 + 2	6	Prof. Dr. Vladimir Dzabirski
3.	Poultry Production	4 + 2	6	Ass. Prof. Dragoslav Kocevski
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the sixth semester

Courses	No. of hours	ECTS	Professor
Agro-biodiversity	4 + 2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Vladimir Dzabirski
Cost and Budgets	3 + 2	6	Ass. Dr. Aleksandra Martinovska Stojcevska
Sanitation and Hygiene in Food Processing	3 + 2	6	Prof. Dr. Metodija Trajchev

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Technology of Milk and Dairy Products	4 + 2	6	Prof. Dr. Sonja Srbinska
2.	Animal Hygiene	4 + 2	6	Prof. Dr. Metodija Trajchev
3.	Beekeeping	4 + 2	6	Prof. Dr. Hrisula Kiprijanovska
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the seventh semester

Courses	No. of hours	ECTS	Professor
Feed Quality and Safety	3 + 2	6	Prof. Dr. Srechko Georgievski
Microbiological Hazards	3 + 2	6	Prof. Dr. Jugoslav Ziberovski Prof. Dr. Metodija Trajchev
Rural Development	3 + 2	6	Prof. Dr. Jovan Azderski

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Selection of Domestic Animals	3 + 2	6	Prof. Dr. Vlado Vukovich
2.	Technology of Meat and Meat Products	4 + 2	6	Prof. Dr. Zlatko Pejkovski
3.	Animal Health Management	3 + 2	6	Prof. Dr. Metodija Trajchev
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical Teaching	0+2		
-	Graduate work	0+3	5	
Total			35	

List of elective courses for the eighth semester

Courses	No. of hours	ECTS	Professor
Honey Bee Products	4 + 2	6	Prof. Dr. Hrisula Kiprijanovska
Standards of Food from Animal Origin	3 + 2	6	Ass. Dr. Dragoslav Kocevski
Food Quality and Safety Control with Legislation	3 + 2	6	Prof. Dr. Sonja Srbinska
Biosecurity for Livestock Farms	3 + 2	6	Prof. Dr. Metodija Trajchev

STUDY PROGRAMME PROCCESING OF AGRICULTURAL PRODUCTS

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME - PROCESING OF AGRICULTURAL PRODUCTS

FIRST SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
2.	Processing Equipment	4+2	6	Ass. Prof. Ile Canev
3.	Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
	Total		30	

List of elective courses for the first semestar

Courses	No. of hours	ECTS	Professor
Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
Mechanization	4+2	6	Prof. Dr. Dragi Tanevski
Statistics	3+2	6	Prof. Dr. Dragan Gjoshevski
Human Resources Developement	3+2	6	Prof. Dr. Dragi Dimitrievski

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
2.	Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
3.	Botany*	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
3.	Zoology **	4+2	6	Prof. Dr. Mirche Naumovski Ass. Prof. Katerina Belichovska
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the second semestar

Course	No. of hours	ECTS	Teacher
Principles of Economics	3+2	6	Prof. Dr. Jovan Azhderski
Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska
Basics in Animal Production *	4+2	6	Prof. Dr. Sreten Andonov
Botany**	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
Zoology *	4+2	6	Prof. Dr. Mirche Naumovski Ass. Prof. Katerina Belichovska

* Compulsory/Elective Courses for module Processing of Plant Products

** Compulsory/Elective Courses for module Processing of Animal Products

THIRD SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
2.	Analytical Chemistry	3+3	6	Prof. Dr. Biljana Petanovska Ilievska
3.	Soil Science*	4+2	6	Prof. Dr. Tatjana Mitkova
3.	Molecular Biology of Animal Cell**	4+2	6	Ass. Prof. Blagica Dimitrievska Prof. Dr. Zoran Popovski
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.				
	Total		30	

List of elective courses for the third semestar

Courses	No. of hours	ECTS	Professor
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azhderski
GMO**	3+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
Contemporary Genetic Methods*	4+2	6	Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska

* Compulsory/Elective Courses for module Processing of Plant Products

** Compulsory/Elective Courses for module Processing of Animal Products

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Basic Knowledge of Tobacco Raw Material*	3+2	6	Ass. Prof. Romina Kabranova
1.	Feed Technology**	3+2	6	Prof. Dr. Srechko Gjorgjievski
2.	Basic Knowledge of Cereal Crops*	3+2	6	Prof. Dr. Dane Boshev
2.	Anatomy and Physiology of Domestic Animals**	3+2	6	Prof. Dr. Mirche Naumovski
3.	Basic Knowledge of Industrial Crops*	3+2	6	Prof. Dr. Zoran Dimov
3.	Honey Bee Products**	4+2	6	Prof. Dr. Hrisula Kiprijanovska
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the fourth semestar

Courses	No. of hours	ECTS	Professor
Agricultural Policy	3+2	6	Prof. Dr. Dragi Dimitrievski
Fisheries	4+2	6	Prof. Dr. Mirche Naumovski
Technological Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
Wild Edible and Poisonous Plants	3+2	6	Ass. Prof. Elizabeta Miskoska

			Milevska
Feed Technology*	3+2	6	Prof. Dr. Srechko Gjorgjievski
Honey Bee Products*	4+2	6	Prof. Dr. Hrisula Kiprijanovska
Horse Breeding **	3+2	6	Prof. Dr. Gjoko Bunevski
Eco-Livestock Production **	4+2	6	Prof. Dr. Vladimir Dzabirski

* Compulsory/Elective Courses for module Processing of Plant Products

** Compulsory/Elective Courses for module Processing of Animal Products

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Basic Knowledge of Viticulture*	3+2	6	Prof. Dr. Zvonimir Bozhinovich
1.	Technology of Cattle Production**	3+2	6	Prof. Dr. Gjoko Bunevski
2.	Fruit Crops*	3+2	6	Ass. Prof. Tosho Arsov
2.	Technology of Poultry Production**	3+2	6	Ass. Prof. Dragoslav Kocevski
3.	Basic Knowledge of Vegetable Crops*	3+2	6	Prof. Dr. Gordana Popsimonova
3.	Technology of Sheep and Goat Production**	4+2	6	Prof. Dr. Vladimir Dzabirski
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the fifth semestar

Courses	No. of hours	ECTS	Professor
Microbiological Hazards	3+2	6	Prof. Dr. Methodija Trajchev
Forage Production**	4+2	6	Prof. Dr. Tatjana Prentovikj
Technology of Cattle Production*	3+2	6	Prof. Dr. Gjoko Bunevski
Technology of Poultry Production*	3+2	6	Ass. Prof. Dragoslav Kocevski
Technology of Sheep and Goat Production*	4+2	6	Prof. Dr. Vladimir Dzabirski

* Compulsory/Elective Courses for module Processing of Plant Products

** Compulsory/Elective Courses for module Processing of Animal Products

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Fruit Processing*	3+2	6	Prof. Dr. Ljubica Karakashova
1.	Technology of Pig Production**	3+2	6	Prof. Dr. Vlado Vukovich
2.	Processing of Cereals and Flour*	3+2	6	Prof. Dr. Dane Boshev
2.	Technology of Milk Production**	3+2	6	Prof. Dr. Sonja Srbinska
3.	Vegetable Processing*	3+2	6	Prof. Dr. Ljubica Karakashova

3.	Technology of Meat Production**	3+2	6	Prof. Dr. Zlatko Pejkovski
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the sixth semestar

Courses	No. of hours	ECTS	Professor
Technology of Pig Production *	3+2	6	Prof. Dr. Vlado Vukovich
Technology of Meat and Meat Products*	4+2	6	Prof. Dr. Zlatko Pejkovski
Fruit and Vegetable Processing**	4+2	6	Prof. Dr. Ljubica Karakashova
Processing of Field Crops**	3+2	6	Prof. Dr. Dane Boshev Prof. Dr. Zoran Dimov Prof. Dr. Tatjana Prentovikj
Processing of Cereals and Flour**	3+2	6	Prof. Dr. Dane Boshev

* **Compulsory/Elective Courses for module Processing of Plant Products**

** **Compulsory/Elective Courses for module Processing of Animal Products**

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Wine Production*	3+2	6	Prof. Dr. Mihail Petkov
1.	Sanitation and Hygiene in Food Production**	3+2	6	Prof. Dr. Methodija Trajchev
2.	Malt and Beer Production*	3+2	6	Prof. Dr. Dane Boshev
2.	Diary Products**	3+2	6	Prof. Dr. Sonja Srbinovska
3.	Production of Sugar and Oil*	3+2	6	Prof. Dr. Zoran Dimov
3.	Meat Products**	3+2	6	Prof. Dr. Zlatko Pejkovski
-elective courses (the student can choose two course from the list for sixth semester bellow)				
4.			6	
5.			6	
	Total		30	

List of elective courses for the seventh semestar

Courses	No. of hours	ECTS	Professor
Rural Development	3+2	6	Prof. Dr. Jovan Azhderski
Medicinal and Aromatic Plants*	2+1	6	Prof. Dr. Zoran Dimov
Technology of Milk and Dairy Products*	4+2	6	Prof. Dr. Sonja Srbinovska
Malt and Beer Production**	3+2	6	Prof. Dr. Dane Boshev
Production of Sugar and Oil**	3+2	6	Prof. Dr. Zoran Dimov

* **Compulsory/Elective Courses for module Processing of Plant Products**

** **Compulsory/Elective Courses for module Processing of Animal Products**

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Production of Soft Drinks*	3+2	6	Prof. Dr. Ljubica Karakashova
1.	Standards of Food from Animal Origin**	3+2	6	Ass. Prof. Dragoslav Kocevski
2.	Processing of tobacco and tobacco products*	3+2	6	Prof. Dr. Zlatko Arsov
2.	Food Quality and Safety Control with Legislation**	3+2	6	Prof. Dr. Sonja Srbinovska
3.	Technology of Alcoholic Beverages*	3+2	6	Prof. Dr. Krum Boshkov
3.	Biosecurity for Livestock Farms**	3+2	6	Prof. Dr. Methodija Trajchev
-elective courses (the student can choose two course from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Graduate Work				
-	Graduate Work	0+3	5	
	Total		35	

List of elective courses for the eighth semestar

Courses	No. of hours	ECTS	Professor
Cost and Budgets	3+2	6	Prof. Dr. Alexandra Martinovska Stojcheska
Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev
Technology of Alcoholic and Non-alcoholic Beverages**	4+2	6	Prof. Dr. Krum Boshkov Prof. Dr. Ljubica Karakashova
Fruit Harvest and Post-harvest Technologies*	3+2	6	Ass. Prof. Tosho Arsov
Sanitation and Hygiene in Food Production*	3+2	6	Prof. Dr. Methodija Trajchev
Quality Standards of Vegetable and Flower Crops *	3+2	6	Prof. Dr. Gjorgji Martinovski
Standards of Food from Animal Origin*	3+2	6	Ass. Prof. Dragoslav Kocevski
Food Quality and Safety Control with Legislation*	3+2	6	Prof. Dr. Sonja Srbinovska
Chemical and Physical Hazards in Food	3+2	6	Prof. Dr. Biljana Petanovska Ilievska

* Compulsory/Elective Courses for module Processing of Plant Products

** Compulsory/Elective Courses for module Processing of Animal Products

STUDY PROGRAMME PLANT PROTECTION-PHYTOMEDICINE

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME - PLANT PROTECTION - PHYTOMEDICINE

FIRST SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Machines and equipment for plant protection	4+2	6	Prof. Dr. Zivko Davcev
3.	Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Dr. Blagica Dimitrievska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the first semester

Courses	No. of hours	ECTS	Professor
Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
Statistics	3+2	6	Prof. Dr. Dragan Gjosevski
Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski
Processing Equipment	4+2	6	Ass. Dr. Ile Canev

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
2.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
3.	Ecology	3+2	6	Prof. Dr. ElizabetaAngelova
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the second semester

Courses	No. of hours	ECTS	Professor
Principles of Economics	3+2	6	Prof. Dr. Jovan Azhderski
Zoology	4+2	6	Prof. Dr. Mirce Naumovski Ass. Prof. Katerina Belichovska
Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska

THIRD SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Soil Science	4+2	6	Prof. Dr. Josif Mitrikeski Prof. Dr. Tatjana Mitkova
2.	Microbiology	3+2	6	Prof. Dr. Jugoslav Ziberoski Prof. Dr. Olga Najdenovska
3.	Fundamentals of Crop Production	3+2	6	Prof. Dr. Zvonko Pacanoski
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the third semester

Courses	No. of hours	ECTS	Professor
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azhderski
Models and Analyses in Agriculture	3+2	6	Prof. Dr. Nenad Georgiev
Greenhouse Flower Production	3+2	6	Prof. Dr. Stefanka Hadjipeцова

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Special Crop Production	3+2	6	Prof. Dr. Zoran Dimov
2.	Fruit Production and Viticulture	4+2	6	Ass. Prof. Toshov Arsov Ass. Prof. Krum Boshkov
3.	Plant Nutrition	4+2	6	Prof. Dr. Marina Stojanova
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the fourth semester

Courses	No. of hours	Credits	Professor
Agricultural Policy	3+2	6	Prof. Dr. Dragi Dimitirevski
Principles of Agricultural Marketing	3+2	6	Prof. Dr. Nenad Georgiev
Fruit and Vegetable Processing	4+2	6	Prof. Dr. Ljubica Karakasova
Processing of Field Crops	3+2	6	Prof. Dr. Dane Bosev Prof. Dr. Zoran Dimov Prof. Dr. Tatjana Prentovikj
Production of Fruit Planting Material	3+2	6	Prof. Dr. Marjan Kiprijanovski

FIFTH SEMESTER

No.	Courses	No. of hours	Credits	Professor
- compulsory courses				
1.	Basic Entomology	3+2	6	Prof. Dr. Stanislava Lazarevska
2.	Phytopharmacy	4+2	6	Prof. Dr. Slobodan Bandjo / Prof. Dr. Mile Postolovski / Prof. Dr. Rade Rusevski / Prof. Dr. Zvonko Pacanoski
3.	Vegetable Crop Production	3+2	6	Prof. Dr. Gordana Popsimonova
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for the fifth semester

Courses	No. of hours	Credits	Professor
Nursery Production of Grapevine	3+2	6	Prof. Dr. Petar Hristov
Eco-Fruit Production	4+2	6	Prof. Dr. Marjan Kiprijanovski
Eco-Viticulture	4+2	6	Prof. Dr. Klime Beleski
Eco-Field Crop Production	4+2	6	Prof. Dr. Tatjana Prentovikj
Farm Management	3+2	6	Prof. Dr. Mile Pesevski

SIXTH SEMESTER

No.	Courses	No. of hours	Credits	Professor
- compulsory courses				
1.	Special Entomology I	3+2	6	Prof. Dr. Mile Postolovski
2.	Phytopathology- Pseudomycoses and Mycoses	4+2	6	Ass. Prof. Biljana Kuzmanovska
3.	Herbology	4+2	6	Prof. Dr. Zvonko Pacanoski
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the sixth semester

Courses	No. of hours	Credits	Professor
Irrigation of Agricultural Crops	3+2	6	Prof. Dr. Ordan Cukaliev Prof. Dr. Vjekoslav Tanaskovikj
Grasslands	4+2	6	Prof. Dr. Petre Ivanovski
Planning and Design of Open Urban Green Areas	3+2	6	Prof. Dr. Stefanka Hadjipecova
Costs and Agricultural Budgets	3+2	6	Ass. Prof. Aleksandra M. Stojceska
Flower Crop Production on Open Field	3+2	6	Prof. Dr. Stefanka Hadjipecova
Beekeeping and Fruit Crops Pollination	3+2	6	Prof. Dr. Hrisula Kiprijanovska
Eco-Vegetable Production	4+2	6	Prof. Dr. Rukie Agich

SEVENTH SEMESTER

No.	Courses	No. of hours	Credits	Professor
- compulsory courses				
1.	Special Entomology II	3+2	6	Prof. Dr. Mile Postolovski
2.	Phytopathology-Bacteriology	4+2	6	Prof. Dr. Rade Rusevski
3.	Phytopathology- Virusology	4+2	6	Prof. Dr. Rade Rusevski
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the seventh semester of the study programme in Field Crop Production

Courses	No. of hours	Credits	Professor
Contemporary Genetic Methods	4+2	6	Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
Production of Table Grapes	3+2	6	Prof. Dr. Krum Boshkov
Medicinal and Aromatic Plants	2+1	6	Prof. Dr. Zoran Dimov
Geomatic Techniques in Agriculture	3+2	6	Prof. Dr. Marija Vukelickj Shutoska
Regulations in Agro-ecological and Organic Farming	3+2	6	Prof. Dr. Elizabeta Angelova
Rural development	3+2	6	Prof. Dr. Jovan Azhderski

EIGHTH SEMESTER

No.	Courses	No. of hours	Credits	Professor
- compulsory courses				
1.	Special Zoology	3+2	6	Prof. Dr. Stanislava Lazarevska Prof. Dr. Slobodan Bandjoo
2.	Integrated Pest Management	3+2	6	Prof. Dr. Mile Postolovski
3.	Biological Control and No-Pesticide Measures for Plant Protection	3+2	6	Prof. Dr. Slobodan Bandjoo
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical Teaching	0+2		
-	Graduate work	0+3	5	
Total			35	

List of elective courses for the eighth semester of the study programme in Field Crop Production

Courses	No. of hours	Credits	Professor
Plant Breeding	4+2	6	Prof. Dr. Ljubomir Marinkovich
Fertirrigation	3+2	6	Prof. Dr. Vjekoslav Tanaskovickj Prof. Dr. Ordan Cukaliev
Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev
Fruit Harvest and Post-harvest Technologies	3+2	6	Prof. Dr. Tosho Arsov
Quality Standards of Vegetable and Flower Crops	3+2	6	Prof. Dr. Gjorgi Martinovski
Processing of Tobacco and Tobacco Products	3+2	6	Prof. Dr. Zlatko Arsov

STUDY PROGRAMME ECO-AGRICULTURE

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME-ECO-AGRICULTURE

FIRST SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Mechanization	4+2	6	Prof. Dr. Dragi Tanevski
3.	Zoology	4+2	6	Prof. Dr. Mirce Naumovski Ass. Dr. Katerina Belicovska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the first semester

Courses	No. of hours	ECTS	Professor
Chemistry	4+2	6	Prof. Dr . Biljana Petanovska Ilievska
Statistics	3+2	6	Prof. Dr. Dragan Gjosevski
Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski
Microbiology	3+2		Prof. Dr. Orga Najdenovska

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
2.	Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
3.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the second semester

Courses	No. of hours	ECTS	Professor
Principles of Economics	3+2	6	Prof. Dr. Jovan Azderski
Wild Edible and Poisonous Plants	3+2	6	Ass. Prof. Elizabeta Miskoska Milevska
Basics in Animal Production	4+2	6	Prof. Dr. Sreten Andonov
Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska

THIRD SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Soil Science	4+2	6	Prof. Dr. Tatjana Mitkova
2.	Soil Microbiology	3+2	6	Prof. Dr. Orga Najdenovska
3.	Plant Nutrition	4+2	6	Prof. Dr. Marina Stojanova
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the third semester of the study programme in Field Crop Production

Courses	No. of hours	ECTS	Professor
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azderski
Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Teacher
- compulsory courses				
1.	Management of Amelioration Systems	4+2	6	Prof. Dr. Marija Vukeljk Shutovska
2.	Land Reclamation and Erosion Protection	4+2	6	Prof. Dr. Aco Gichev
3.	Eco-Livestock Production	4+2	6	Prof. Dr. Vladimir Djabirski
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the fourth semester

Courses	No. of hours	Credits	Professor
Basics of Animal Nutrition	3+2	6	Prof. Dr. Srechko Gorgievski
Anatomy and Physiology of Domestic Animals	3+2	6	Prof. Dr. Mirce Naumovski
Agricultural Policy	3+2	6	Prof. Dr. Dragi Dimitrievski
Field Crop Production with Agro-Ecology	3+2	6	Prof. Dr. Zvonko Pacanoski
Plant physiology	4+2	6	Prof. Dr. Silvana Manasievska Simich

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Soil and Water Quality for Agricultural Production	4+2	6	Prof. Dr. Tatjana Mitkova Prof. Dr. Ordan Cukaliev
2.	Eco-Fruit Production	4+2	6	Prof. Dr. Marjan Kiprijanovski
3.	Eco-Field Crop Production	4+2	6	Prof. Dr. Tatjana Prentovikj
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the fifth semester

Courses	No. of hours	ECTS	Professor
Phytopathology and Phytopharmacy	3+2	6	Ass. Prof. Biljana Kuzmanovska
Medicinal and Aromatic Plants	2+1	6	Prof. Dr. Zoran Dimov
Farm Management	3+2	6	Prof. Dr. Mile Pesevski

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Soil Degradation and Protection	3+2	6	Prof. Dr. Tatjana Mitkova
2.	Irrigation of Agricultural Crops	3+2	6	Prof. Dr. Ordan Cukaliev Prof. Dr. Vjekoslav Tanaskovikj
3.	Eco-Vegetable Production	4+2	6	Prof. Dr. Rukie Agich
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the sixth semester

Courses	No. of hours	ECTS	Professor
Entomology and Phytopharmacy	3+2	6	Prof. Dr. Stanislava Lazarevska
Grasland	4+2	6	Prof. Dr. Tatjana Prentovikj
Costs and Agricultural Budgets	3+2	6	Prof. Dr. Aleksandra Martinovska Stojceska
Herbology	4+2	6	Prof. Dr. Zvonko Pacanoski

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Geomatic Techniques in Agriculture	3+2	6	Prof. Dr. Marija Vukeljk Shutovska
2.	Eco-Viticulture	4+2	6	Prof. Dr. Klime Belevski
3.	Regulations in Agro-ecological and Organic Farming	3+2	6	Prof. Dr. Elizabeta Angelova
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the seventh semester

Courses	No. of hours	ECTS	Professor
Animal Hygiene	4+2	6	Prof. Dr. Metodija Trajchev
Beekeeping	4+2	6	Prof. Dr. Hrisula Kiprijanovska
Rural development	3+2	6	Prof. Dr. Jovan Azderski

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Agro-biodiversity	4+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Vladimir Djabirski
2.	Fertigation	3+2	6	Prof. Dr. Vjekoslav Tanaskovikj Prof. Dr. Ordan Cukaliev
3.	Biological Control and Non-Pesticide Measures for Plant Protection	3+2	6	Prof. Dr. Slobodan Bandjo
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical Teaching	0+2		
-	Graduate work	0+3	5	
Total			35	

List of elective courses for the eighth semester

Courses	No. of hours	ECTS	Professor
Plant Breeding	4+2	6	Prov. Dr. Ljubomir Marinkovich
Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev
Selection of Domestic Animals	3+2	6	Prof. Dr. Vlado Vukovich
Animal Health Management	3+2	6	Prof. Dr. Metodija Trajchev
Chemical and Physical Hazards in Food	3+2		Prof. Dr. Biljana Petanovska Ilievska

STUDY PROGRAMME AGRICULTURAL ECONOMICS

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME- AGRICULTURAL ECONOMICS

FIRST SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski
2.	Mechanization	4+2	6	Prof. Dr. Dragi Tanevski
3.	Statistics	3+2	6	Prof. Dr. Dragan Gjosevski
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the first semester

Courses	No. of hours	ECTS	Professor
Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
Processing Equipment	4+2	6	Ass. Prof. Ile Canev
Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
2.	Principles of Economics	3+2	6	Prof. Dr. Jovan Azderski
3.	Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the second semester

Courses	No. of hours	ECTS	Professor
Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
Zoology	4+2	6	Prof. Dr. Mirce Naumovski Ass. Prof. Katerina Belicovska
Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Ass. Prof. Ljupco Jankulovski Ass. Prof. Mirjana Jankulovska
Basics in Animal Production	4+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Selected Technologies in Field Crop and Vegetable Production	4+2	6	Prof. Dr. Tatjana Prentovikj Prof. Dr. Gjorgji Martinovski
2.	Selected Technologies in Viticulture and Fruit Production	4+2	6	Prof. Dr. Krum Boskov Ass. Prof. Tosho Arsov
3.	Models and Analyses in Agriculture	3+2	6	Prof. Dr. Nenad Georgiev
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for the third semester

Courses	No. of hours	ECTS	Professor
Soil Science	4+2	6	Prof. Dr. Josif Mitrikeski Prof. Dr. Tatjana Mitkova

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Agricultural Policy	3+2	6	Prof. Dr. Dragi Dimitrievski
2.	Selected Technologies in Animal Production	3+2	6	Prof. Dr. Vladimir Dzabirski
3.	Principles of Agricultural Marketing	3+2	6	Prof. Dr. Nenad Georgiev
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the fourth semester

Courses	No. of hours	Credits	Professor
Irrigation of Agricultural Crops	3+2	6	Prof. Dr. Ordan Cukaliev As. Prof. Vjekoslav Tanaskovikj
Plants Nutrition	4+2	6	Prof. Dr. Marina Stojanova
Basics of Animal Nutrition	3+2	6	Prof. Dr. Srechko Georgievski
Field Crop Production with Agro-Ecology	3+2	6	Prof. Dr. Zvonko Pacanoski
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azderski
Microbiology	3+2	6	Prof. Dr. Jugoslav Ziberovski Prof. Dr. Olga Najdenovska

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Agribusiness	3+2	6	Ass. Prof. Risto Elenov
2.	Farm Management	3+2	6	Prof. Dr. Mile Peshevski
3.	Labour Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the fifth semester

Courses	No. of hours	ECTS	Professor
Soil and Water Quality for Agricultural Production	4+2	6	Prof. Dr.Tatjana Mitkova Prof. Dr.Ordan Chukaliev
Flower Crop Production on Open Field	3+2	6	Prof. Dr.Stefanka Hadjipecova
Land Reclamation and Erosion Protection	4+2	6	Prof. Dr. Aco Gichev

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Quality Management	3+2	6	Prof. Dr. Mile Peshevski
2.	Costs and Agricultural Budgets	3+2	6	Ass. Prof. Aleksandra Martinovska Stojceska
3.	Entrepreneurship in Agriculture	3+2	6	Prof. Dr. Mile Peshevski
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the sixth semester

Courses	No. of hours	ECTS	Professor
Fruit Crops	3+2	6	Ass. Prof. Tosho Arsov
Basic Knowledge of Grapevine	3+2	6	Prof. Dr. Zvonimir Bozinovich
Planning and Design of Open Urban Green Areas	3+2	6	Prof. Dr.Stefanka Hadjipecova

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Rural Development	3+2	6	Prof. Dr.Jovan Azderski
2.	Farm Accounting	3+2	6	Ass. Prof. Aleksandra Martinovska Stojceska
3.	Valuations in Agriculture	3+2	6	Ass. Prof. Aleksandra Martinovska Stojceska
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the seventh semester

Courses	No. of hours	ECTS	Professor
Technology of Milk and Dairy Products	4+2	6	Prof. Dr. Sonja Srbinska
Beekeeping	4+2	6	Prof. Dr.Hrisula Kiprijanovska
Geomatic Techniques in Agriculture	3+2	6	Prof. Dr. Marija Vukeljk Shutoska
Regulations in Agro-ecological and Organic Farming	3+2	6	Prof. Dr. Elizabeta Angelova
Wine Production	3+2	6	Prof. Dr. Mihail Petkov

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Financial Management	4+2	6	Prof. Dr. Dragan Gjosevski
2.	Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev
3.	Business Analysis	3+2	6	Ass. Prof. Aleksandra Martinovska Stojceska
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical Teaching	0+2		
-	Graduate work	0+3	5	
Total			35	

List of elective courses for the eighth semester

Courses	No. of hours	ECTS	Professor
Integrated Plant Protection	3+2	6	Prof. Dr. Mile Postolovski
Technology of Alcoholic and Non-alcoholic Beverages	4+2	6	Prof. Dr. Krum Boskov Prof. Dr. Ljubica Karakasova
Technology of Meat and Meat Products	4+2	6	Prof. Dr. Zlatko Pejkovski
Fruit and Vegetable Processing	4+2	6	Prof. Dr. Ljubica Karakasova
Processing of Field Crops	3+2	6	Prof. Dr. Dane Bosev Prof. Dr. Zoran Dimov Prof. Dr.Tatjana Prentovikj

STUDY PROGRAMME FRUIT PRODUCTION WITH VITICULTURE

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME – FRUIT PRODUCTION WITH VITICULTURE

FIRST SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Mechanization of Fruit Crops and Viticulture	4+2	6	Prof. Dr. Zhivko Davchev
3.	Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.				
5.				
Total			30	

List of elective courses for first semestar

Courses	No. of hours	ECTS	Professor
Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
Statistics	3+2	6	Prof. Dr. Dragan Gjoshevski
Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska Milevska
2.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
3.	Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for second semestar

Courses	No. of hours	ECTS	Professor
Zoology	4+2	6	Prof. Dr. Mirche Naumovski Ass. Prof. Katerina Belichovska
Principles of Economics	3+2	6	Prof. Dr. Jovan Azhderski
Field Crop Production with Agro-Ecology	3+2	6	Prof. Dr. Zvonko Pacanoski
Basics in Animal Production	4+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Pedology with Fundamentals of Petrography	4+2	6	Prof. Dr. Tatjana Mitkova
2.	Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
3.	General Fruit Production	3+2	6	Prof. Dr. Marjan Kiprijanovski
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for third semestar

Courses	No. of hours	ECTS	Professor
Land Reclamation and Erosion Protection	4+2	6	Prof. Dr. Aco Gichev
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azhderski
Vegetable and Flower Production	3+2	6	Prof. Dr. Gordana Popsimonova
Geomatic Techniques in Agriculture	3+2	6	Prof. Dr. Marija Vukelikj Shutoska

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-Compulsory courses				
1.	Production of Fruit Planting Material	3+2	6	Prof. Dr. Marjan Kiprijanovski
2.	Irrigation in Fruit Crop Production and Viticulture	3+2	6	Prof. Dr. Ordan Chukaliev Ass. Prof. Vjekoslav Tanaskovikj
3.	General Viticulture	3+2	6	Prof. Dr. Petar Hristov
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for fourth semestar

Courses	No. of hours	ECTS	Professor
Management of Amelioration Systems	4+2	6	Prof. Dr. Marija Vukelikj Shutoska
Agricultural Policy	3+2	6	Prof. Dr. Dragi Dimitrievski
Vegetable Production in Open Field	3+2	6	Prof. Dr. Rukie Agich
Grasslands	4+2	6	Prof. Dr. Tatjana Prentovikj

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-Compulsory courses				
1.	Establishment and Cultivation of Vineyards	3+2	6	Prof. Dr. Petar Hristov
2.	Nutrition in Fruit Crop Production and Viticulture	4+2	6	Prof. Dr. Marina Stojanova
3.	Management of Fruit Production and Viticulture	4+2	6	Prof. Dr. Dragan Gjoshevski
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for fifth semestar

Courses	No. of hours	ECTS	Professor
Nursery Production of Grapevine	3+2	6	Prof. Dr. Petar Hristov
Industrial Crops	3+2	6	Prof. Dr. Zoran Dimov
Grains and Tuberosus Crops	3+2	6	Prof. Dr. Dane Boshev
Forage Production	4+2	6	Prof. Dr. Tatjana Prentovikj

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Establishment and Cultivation of Orchards	4+2	6	Prof. Dr. Marjan Kiprijanovski
2.	Beekeeping and Fruit Crops Polination	3+2	6	Prof. Dr. Hrisula Kiprijanovska
3.	Phytopatology and Phytopharmacy	3+2	6	Prof. Dr. Rade Rusevski
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for sixth semestar

Courses	No. of hours	ECTS	Professor
Ampelography I	3+2	6	Prof. Dr. Zvonimir Bozhinovich
Costs and Agricultural Budgets	3+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska
Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Pomology	4+3	6	Ass. Prof. Bojan Popovski
2.	Entomology and Phytopharmacy	3+2	6	Prof. Dr. Mile Postolovski
3.	Production of Table Grape	3+2	6	Prof. Dr. Krum Boshkov
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
	Total		30	

List of elective courses for seventh semestar

Courses	No. of hours	ECTS	Professor
Basic Knowledge of Grapevine	4+2	6	Prof. Dr. Zvonimir Bozhinovic
Contemporary Genetic Methods	3+2	6	Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
Wine Production	3+2	6	Prof. Dr. Mihail Petkov
Rural Development	3+2	6	Prof. Dr. Jovan Azhderski

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Breeding of Fruit Crops	4+2	6	Ass. Prof. Bojan Popovski
2.	Fruit Harvest and Post-harvest Technologies	3+2	6	Ass. Prof. Tosho Arsov
3.	General Breeding	4+2	6	Prof. Dr. Ljubomir Marinkovich
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Graduate Work				
-	Graduate Work	0+3	5	
	Total		35	

List of elective courses for eighth semestar

Courses	No. of hours	ECTS	Professor
Biological Control and Non-pesticide Measures for Plant Protection	3+2	6	Prof. Dr. Slobodan Bandjo
Fertigation	3+2	6	Ass. Prof. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev
Technology of Alcoholic Beverages	3+2	6	Prof. Dr. Krum Boshkov
Fruit Processing	3+2	6	Prof. Dr. Ljubica Karakashova
Soil Degradation and Protection	3+2	6	Prof. Dr. Tatjana Mitkova

STUDY PROGRAMME VITICULTURE AND WINE PRODUCTION

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME – VITICULTURE AND WINE PRODUCTION

FIRST SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Mechanization in Viticulture Production	4+2	6	Prof. Dr. Zhivko Davchev
3.	Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for first semestar

Courses	No. of hours	ECTS	Professor
Processing Equipment	4+2	6	Ass. Prof. Ile Canev
Statistics	3+2	6	Prof. Dr. Dragan Gjoshevski
Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Botany	4+3	6	Prof. Dr. Silvana Manasievska Simic Ass. Prof. Elizabeta Miskoska Milevska
2.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
3.	Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for second semestar

Courses	No. of hours	ECTS	Professor
Zoology	4+2	6	Prof. Dr. Mirche Naumovski Ass. Prof. Katerina Belichovska
Principles of Economics	3+2	6	Prof. Dr. Jovan Azhderski
Management in Agriculture	3+2	6	Ass. Prof. Ana Kotevska
Basics in Animal Production	4+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTAR

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Pedology with Fundamentals of Petrography	4+2	6	Prof. Dr. Tatjana Mitkova
2.	Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
3.	Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for third semestar

Courses	No. of hours	ECTS	Professor
General Fruit Production	3+2	6	Prof. Dr. Marjan Kiprijanovski
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azhderski

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	General Viticulture	3+2	6	Prof. Dr. Petar Hristov
2.	Irrigation in Viticulture	3+2	6	Prof. Dr. Ordan Chukaliev Ass. Prof. Vjekoslav Tanaskovikj
3.	Establishment and Cultivation of Orchards	4+2	6	Prof. Dr. Marjan Kiprijanovski
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for fourth semestar

Courses	No. of hours	ECTS	Professor
Technological Microbiology	3+2	6	Prof. Dr. Olga Najdenovska
Field Crop Production with Agro-Ecology	3+2	6	Prof. Dr. Zvonko Pacanoski
Land Reclamation and Erosion Protection	4+2	6	Prof. Dr. Aco Gichev
Production of Fruit Planting Material	3+2	6	Prof. Dr. Marjan Kiprijanovski

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-compulsory courses				
1.	Nursery Production of Grapevine	3+2	6	Prof. Dr. Petar Hristov
2.	Nutrition in Viticulture	4+2	6	Prof. Dr. Marina Stojanova
3.	Phytopatology and Phytopharmacy	3+2	6	Ass. Prof. Biljana Kuzmanovska
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for fifth semestar

Courses	No. of hours	ECTS	Professor
Vegetable Crop Production	3+2	6	Prof. Dr. Gordana Popsimonova
Fruit Crops	3+2	6	Ass. Prof. Tosho Arsov

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-Compulsory courses				
1.	Establishment of Vineyards and Cultivation	3+2	6	Prof. Dr. Petar Hristov
2.	Wine-chemistry	3+2	6	Prof. Dr. Mihail Petkov
3.	Ampelography I	3+2	6	Prof. Dr. Zvonimir Bozhinovich
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for sixth semestar

Courses	No. of hours	ECTS	Professor
Fruit Harvest and Post-harvest Technologies	3+2	6	Ass. Prof. Tosho Arsov
Costs and Agricultural Budgets	3+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska
Grasslands	3+2	6	Prof. Dr. Tatjana Prentovikj

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-Compulsory courses				
1.	Ampelography II	3+2	6	Prof. Dr. Zvonimir Bozhinovich
2.	Technology of Wine I	3+2	6	Prof. Dr. Mihail Petkov
3.	Management of Fruit Production and Viticulture	3+2	6	Prof. Dr. Dragan Gjoshevski
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for seventh semestar

Courses	No. of hours	ECTS	Professor
Entomology and Phytopharmacy	3+2	6	Prof. Dr. Mile Postolovski
Production of Table Grape	3+2	6	Prof. Dr. Krum Boshkov
Regulations in Agro-ecological and Organic Farming	3+2	6	Prof. Dr. Elizabeta Angelova
Eco-viticulture	4+2	6	Prof. Dr. Klime Beleski

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
-Compulsory courses				
1.	Grapevine Breeding	3+2	6	Prof. Dr. Klime Beleski
2.	Technology of Wine II	3+2	6	Prof. Dr. Mihail Petkov
3.	Technology of Alcoholic Beverages	3+2	6	Prof. Dr. Krum Boshkov
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
Graduate Work				
-	Graduate Work	0+3	5	
Total			35	

List of elective courses for eighth semestar

Courses	No. of hours	ECTS	Professor
Fruit Processing	3+2	6	Prof. Dr. Ljubica Karakashova
Fertigation	3+2	6	Ass. Prof. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev
Soil Degradation and Protection	3+2	6	Prof. Dr. Tatjana Mitkova
Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev
Chemical and Physical Hazards in Food	3+2	6	Prof. Dr. Biljana Petanovska Ilievska

STUDY PROGRAMME FOOD QUALITY AND SAFETY

TOTAL NUMBER OF COURSES IN THE STUDY PROGRAMME:

Course	Number	Structure
Compulsory	24	60
Elective	16	40
Total	40	100,00

STUDY PROGRAMME- FOOD QUALITY AND SAFETY

FIRST SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Chemistry	4+2	6	Prof. Dr. Biljana Petanovska Ilievska
2.	Processing Equipment	4+2	6	Ass. Prof. Ile Canev
3.	Microbiology	3+2	6	Prof. Dr. Jugoslav Ziberovski Prof. Dr. Olga Najdenovska
-elective courses (the student can choose two courses from the list for first semester bellow)				
4.			6	
5.			6	
	Total		30	

List of elective courses for the first semester

Courses	No. of hours	ECTS	Professor
Agroclimatology	4+2	6	Prof. Dr. Srebra Ilikj Popova
Mechanization	4+2	6	Prof. Dr. Zivko Davcev
Human Resources Development	3+2	6	Prof. Dr. Dragi Dimitrievski
Statistics	3+2		Prof. Dr. Dragan Gjosevski

SECOND SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Botany	4+3	6	Prof. Dr. Silvana Manasievska Simich Ass. Prof. Elizabeta Miskoska - Milevska
2.	Genetics	4+2	6	Prof. Dr. Cane Stojkovski Prof. Dr. Sonja Ivanovska Prof. Dr. Ljupcho Jankuloski Ass. Prof. Mirjana Jankulovska
3.	Basics in Animal Production	4+2	6	Prof. Dr. Sreten Andonov
-elective courses (the student can choose two courses from the list for second semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the second semester

Courses	No. of hours	ECTS	Professor
Zoology	3+2	6	Prof. Dr. Mirce Naumovski Ass. Prof. Katerina Belichovska
Principles of Economics	4+2	6	Prof. Dr. Jovan Azderski
Ecology	3+2	6	Prof. Dr. Elizabeta Angelova
Anatomy and Physiology of Domestic Animals	4+2	6	Prof. Dr. Mirce Naumovski

THIRD SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Analytical Chemistry	3+3	6	Prof. Dr. Biljana Petanovska Ilievska
2.	Biochemistry	4+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
3.	Soil and Water Quality	4+3	6	Prof. Dr. Tatjana Mitkova Prof. Dr. Ordan Chukaliev
-elective courses (the student can choose one course from the list for third semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Total			30	

List of elective courses for the third semester

Courses	No. of hours	ECTS	Professor
Soil Science	4+2	6	Prof. Dr. Josif Mitrikeski Prof. Dr. Tatjana Mitkova
Economics of Agriculture	3+2	6	Prof. Dr. Jovan Azderski
Technology of Cattle Production	3+2	6	Prof. Dr. Goko Bunevski
Technology of Sheep and Goat Production	4+2	6	Prof. Dr. Vladimir Gjabirski

FOURTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Technological Microbiology	3+2	6	Prof. Dr. Jugoslav Ziberovski Prof. Dr. Olga Najdenovska
2.	Plant Physiology	4+2	6	Prof. Dr. Silvana Manasievska Simich
3.	Wild Edible and Poisonous Plants	3+2	6	Ass. Prof. Elizabeta Miskoska – Milevska
-elective courses (the student can choose one course from the list for fourth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
Total			30	

List of elective courses for the fourth semester

Courses	No. of hours	Credits	Professor
Irrigation of Agricultural Crops	3+2	6	Prof. Dr. Ordan Chukaliev Ass. Prof. Vjekoslav Tanaskovikj
Plant Nutrition	4+2	6	Prof. Dr. Marina Stojanova
Special Field Crops Production	3+2	6	Prof. Dr. Zoran Dimov
Technology of Pig Production	3+2	6	Prof. Dr. Vlado Vukovich

FIFTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	GMO	3+2	6	Prof. Dr. Zoran Popovski Ass. Prof. Blagica Dimitrievska
2.	Basic Knowledge of Vegetable and Fruit Crops	4+2	6	Prof. Dr. Gjorgi Martinovski Ass. Prof. Bojan Popovski
3.	Technology of Milk and Dairy Products	4+2	6	Prof. Dr. Sonja Srbinovska
-elective courses (the student can choose one course from the list for fifth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
	Total		30	

List of elective courses for the fifth semester

Courses	No. of hours	ECTS	Professor
Technology of Poultry Production	3+2	6	Prof. Dr. Dragoslav Kocovski
Basic Knowledge of Viticulture	3+2	6	Prof. Dr. Zvonimir Bozinovich

SIXTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Fruit and Vegetable Processing	4+2	6	Prof. Dr. Ljubica Karakasova
2.	Processing of Field Crops	3+2	6	Prof. Dr. Dane Bosev Prof. Dr. Zoran Dimov Prof. Dr. Tatjana Prentovikj
3.	Technology of Meat and Meat Products	4+2	6	Prof. Dr. Zlatko Pejkovski
-elective courses (the student can choose one course from the list for sixth semester bellow)				
4.			6	
-elective courses (the student can choose one course from the University list of courses)				
5.			6	
Practical work				
-	Practical work	0+2		
	Total		30	

List of elective courses for the sixth semester

Courses	No. of hours	ECTS	Professor
Honey Bee Products	4+2	6	Prof. Dr. Hrisula Kiprijanovska
Fisheries	4+2	6	Prof. Dr. Mirce Naumovski
Quality Management	3+2	6	Prof. Dr. Mile Pesevski

SEVENTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Microbiological Hazards	3+2	6	Prof. Dr. Jugoslav Ziberovski Prof. Dr. Metodija Trajchev
2.	Phytopharmacy	4+2	6	Prof. Dr. Slobodan Bandjo Prof. Dr. Stanislava Lazarevska Prof. Dr. Rade Rusevski Prof. Dr. Zvonko Pacanovski
3.	Quality and Safety of Animal Feed	3+2	6	Prof. Dr. Srechko Geogriev
-elective courses (the student can choose two courses from the list for seventh semester bellow)				
4.			6	
5.			6	
Total			30	

List of elective courses for the seventh semester

Courses	No. of hours	ECTS	Professor
Entomology and phytopharmacy	3+2	6	Prof. Dr. Mile Postolovski Prof. Dr. Stanislava Lazarevska
Medical and Aromatic Plants	2+1	6	Prof. Dr. Zoran Dimov
Regulations in Agro-ecological and Organic Farming	3+2	6	Prof. Dr. Elizabeta Angelova
Rural Development	3+2	6	Prof. Dr. Jovan Azderski

EIGHTH SEMESTER

No.	Courses	No. of hours	ECTS	Professor
- compulsory courses				
1.	Technology of Alcoholic and Non-alcoholic Beverages	4+2	6	Prof. Dr. Krum Boskov Prof. Dr. Ljubica Karakasova
2.	Physical and Chemical Safety of Food	3+2	6	Prof. Dr. Biljana Petanovska Ilievska
3.	Sanitation and Hygiene in Food Processing	3+2	6	Prof. Dr. Metodija Trajchev
-elective courses (the student can choose two courses from the list for eighth semester bellow)				
4.			6	
5.			6	
Practical work				
-	Practical work	0+2		
-	Graduate work	0+3	5	
Total			35	

List of elective courses for the eighth semester

Courses	No. of hours	ECTS	Professor
Costs and Agricultural Budgets	3+2	6	Ass. Prof. Aleksandra Martinovska - Stojceska
Animal Health Management	3+2	6	Prof. Dr. Metodija Trajchev
Marketing of Agricultural Products	3+3	6	Prof. Dr. Nenad Georgiev
Phytopathology and phytopharmacy	3+2	6	Prof. Dr. Rade Rusevski
Food Quality and Safety Control with Legislation	3+2	6	Prof. Dr. Sonja Srbinovska
Processing of Tobacco and Tobacco products	3+2	6	Prof. Dr. Zlatko Arsov

