

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 PROGRAMME OF
AGRICULTURAL ECONOMICS
AT FIRST CYCLE OF UNIVERSITY 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
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE

Skopje, July 2017

STUDY PROGRAMME – AGRICULTURAL ECONOMICS

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Statistics	3+2+2	6	Prof. Dr. Dragan Gjoshevski Asst. Prof. Dr. Ana Simonovska
2.	Agricultural Machinery	3+2+2	6	Prof. Dr. Dragi Tanevski
3.	Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
-elective courses (the student elects two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.				
5.				
6.	Sport and Health (optional)	0+2	-	Faculty of Physical Education, Sport and Health
Total			30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Ilkij Popova
Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Velkoska-Markovska
Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski
Principles of Livestock Production	3+2+2	6	Prof. Dr. Sreten Andonov

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
2.	Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
3.	Management in Agriculture	3+2+2	6	Prof. Dr. Ana Kotevska
-elective courses (the student elects two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
Total			30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
Zoology	3+2+2	6	Prof. Dr. Katerina Belichovska
Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
Principles of Field Crop Production with Agroecology	3+2+2	6	Prof. Dr. Zvonko Pacanoski

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Selected Technologies in Field Crop Production and Vegetable Production	3+2+2	6	Prof. Dr. Tatjana Prentovikj Prof. Dr. Gordana Popsimonova
2.	Selected Technologies in Viticulture and Fruit Growing	3+2+2	6	Prof. Dr. Krum Boshkov Prof. Dr. Tosho Arsov
3.	Models and Analyses in Agriculture	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Pedology	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agricultural Policy	3+2+2	6	Prof. Dr. Dragi Dimitrievski Prof. Dr. Ana Kotevska
2.	Selected Technologies in Livestock Production	3+2+2	6	Prof. Dr. Vladimir Dzabirski Asst. Prof. Dr. Kocho Porchu
3.	Basics in Agromarketing	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Economics in Agriculture	3+2+2	6	Prof. Dr. Jovan Azhderski
Outdoor Floriculture	3+2+2	6	Asst. Prof. Dr. Margarita Davitkovska

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agribusiness	3+2+2	6	Prof. Dr. Dragi Dimitrievski
2.	Cooperatives	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
3.	Consumer Behaviour	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Basics of Animal Nutrition	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski
Amelioration with Erosion Protection	3+2+2	6	Prof. Dr. Marija Vukeljkj Shutoska

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Quality Management	3+2+2	6	Prof. Dr. Mile Peshevski
2.	Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
3.	Agricultural Entrepreneurship	3+2+2	6	Prof. Dr. Mile Peshevski
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Principles of Irrigation	3+2+2	6	Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
Plant Nutrition	3+2+2	6	Prof. Dr. Marina Stojanova
Tobacco Processing and Technology of Tobacco Products	3+2+2	6	Prof. Dr. Zlatko Arsov

SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Rural Development	3+2+2	6	Prof. Dr. Jovan Azhderski
2.	Farm Accounting	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
3.	Valuations in Agriculture	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.			6	
5.			6	
	Total		30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Milk Technology and Dairy Products	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
Beekeeping	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov
Regulations in Agri-environmental and Organic Agriculture	3+2+2	6	Prof. Dr. Elizabeta Angelova
Wine Technology	3+2+2	6	Prof. Dr. Mihail Petkov

EIGHTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Financial Management in Agriculture	3+2+2	6	Prof. Dr. Dragan Gjoshevski Asst. Prof. Dr. Ana Simonovska
2.	Marketing of Agricultural Products	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
3.	Bussines Analysis	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
	Total		35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Integrated Pest Mangement	3+2+2	6	Prof. Dr. Stanislava Lazarevska Prof. Dr. Rade Rusevski Prof. Dr. Zvonko Pacanoski
Meat Technology and Meat Processing	3+2+2	6	Prof. Dr. Zlatko Pejkovski
Fruit and Vegetable Processing	3+2+2	6	Prof. Dr. Ljubica Karakoshova
Processing of Field Crops	3+2+2	6	Prof. Dr. Zoran Dimov Prof. Dr. Dane Boshev

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FACULTY OF AGRICULTURAL SCIENCES AND FOOD - SKOPJE

**РЕПУБЛИКА МАКЕДОНИЈА
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**REPUBLIC OF MACEDONIA
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FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE**

Skopje, July 2017

STUDY PROGRAMME – ANIMAL BIOTECHNOLOGY

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Principles of Livestock Production	3+2+2	6	Prof. Dr. Sreten Andonov
2.	Anatomy of Animals	3+2+2	6	Asst. Prof. Dr. Dimitar Nakov
3.	Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski
-elective courses (the student elects two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.				
5.				
	Sport and Health (optional)	0+2	-	Faculty of Physical Education, Sport and Health
	Total		30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
Agricultural Machinery	3+2+2	6	Prof. Dr. Dragi Tanevski
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Ilenche Velkoska Markovska

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
2.	Animal Physiology	3+2+2	6	Prof. Dr. Metodija Trajchev
3.	Zoology	3+2+2	6	Prof. Dr. Katerina Belichovska
-elective courses (the student elects two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
	Total		30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Management in Agriculture	3+2+2	6	Prof. Dr. Ana Kotevska

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Basics of Animal Nutrition	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski
2.	Fodder Crops Production	3+2+2	6	Prof. Dr. Tatjana Prentovikj
3.	Population Genetics	3+2+2	6	Prof. Dr. Sreten Andonov
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Molecular Biology of Animal Cell	3+2+2	6	Prof. Dr. Kocho Porchu Prof. Dr. Zoran Popovski
Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Fishery	3+2+2	6	Prof. Dr. Katerina Belichovska
2.	Applied Animal Nutrition	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski
3.	Horse Breeding	3+2+2	6	Prof. Dr. Gjoko Bunevski
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Standards for Animal Products	3+2+2	6	Prof. Dr. Dragoslav Kocovski Prof. Dr. Hrisula Kiprijanovska
Feed Technology	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Cattle Breeding	3+2+2	6	Prof. Dr. Gjoko Bunevski
2.	Management in Livestock Production	3+2+2	6	Prof. Dr. Dragi Dimitrievski Prof. Dr. Ana Kotevska
3.	Goat Breeding	3+2+2	6	Prof. Dr. Kocho Porchu Prof. Dr. Vladimir Dzabirski
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Genetically Modified Organisms	3+2+2	6	Prof. Dr. Zoran Popovski
Consumer Behaviour	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Pig Breeding	3+2+2	6	Prof. Dr. Vlado Vukovikj
2.	Sheep Breeding	3+2+2	6	Prof. Dr. Vladimir Dzabirski Prof. Dr. Kocho Porchu
3.	Poultry Farming	3+2+2	6	Prof. Dr. Dragoslav Kocovski
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Biodiversity in Agriculture	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Kocho Porchu
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Chemical Hazards in Food	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Lenche Velkoska Markovska

SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Milk Technology and Dairy Products	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa
2.	Animal Hygiene	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
3.	Beekeeping	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.			6	
5.			6	
	Total		30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Hygiene and Sanitation in Food Processing Industry	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
Biological Hazards in Food	3+2+2	6	Prof. Dr. Metodija Trajchev
Valuations in Agriculture	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Rural Development	3+2+2	6	Prof. Dr. Jovan Azderski

EIGHTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Selection of Farm Animals	3+2+2	6	Prof. Dr. Vlado Vukovikj
2.	Meat Technology and Meat Processing	3+2+2	6	Prof. Dr. Zlatko Pejkovski
3.	Animal Health	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
	Total		35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Honey Bee Products	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov
Principles of Food Quality and Safety	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa
Financial Management in Agriculture	3+2+2	6	Prof. Dr. Dragan Gjosevski Asst. Prof. Dr. Ana Simonovska
Marketing of Agriculture Products	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka

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Skopje, July 2017

STUDY PROGRAMME – ECOLOGICAL AGRICULTURE

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Agricultural Machinery	3+2+2	6	Prof. Dr. Zivko Davchev
3.	Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Velkoska Markovska
-elective courses (the student elects two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.				
5.				
	Sport and Health (optional)	0+2	-	Faculty of Physical Education, Sport and Health
	Total		30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Statistics	3+2+2	6	Prof. Dr. Dragan Gjosevski Asst. Prof. Dr. Ana Simonovska

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
2.	Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
3.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
-elective courses (the student elects two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
	Total		30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Management in Agriculture	3+2+2	6	Prof. Dr. Ana Kotevska
Zoology	3+2+2	6	Prof. Dr. Katerina Belichovska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Basics of Livestock Production	3+2+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Pedology	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski
2.	Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska
3.	Plant Nutrition	3+2+2	6	Prof. Dr. Marina Stojanova
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Rural Development	3+2+2	6	Prof. Dr. Jovan Azderski
Plant Physiology	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Amelioration with Erosion Protection	3+2+2	6	Prof. Dr. Marija Vukeljk Shutoska
2.	Ecological Livestock Production	3+2+2	6	Prof. Dr. Vladimir Dzabirski Prof. Dr. Kocho Porchu
3.	Ecological Vegetable Production	3+2+2	6	Prof. Dr. Rukie Agich
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Anatomy and Physiology of Farm Animals	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
Economics in Agriculture	3+2+2	6	Prof. Dr. Jovan Azderski
Grasslands	3+2+2	6	Prof. Dr. Tatjana Prentovikj
Principles of Field Crop Production with Agroecology	3+2+2	6	Prof. Dr. Zvonko Pacanoski

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Water and Soil Quality	3+2+2	6	Prof. Dr. Tatjana Mitkova Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
2.	Ecological Fruit Growing	3+2+2	6	Prof. Dr. Marjan Kiprijanovski
3.	Ecological Field Crop Production	3+2+2	6	Prof. Dr. Tatjana Prentovikj
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Phytopathology with Phytopharmacy	3+2+2	6	Prof. Dr. Rade Rusevski Prof. Dr. Biljana Kuzmanovska
Basics of Animal Nutrition	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Management of Amelioration Systems	3+2+2	6	Prof. Dr. Marija Vukelikj Shutoska
2.	Soil Degradation and Protection	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski
3.	Principles of Irrigation	3+2+2	6	Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Entomology with Integrated Pest Management	3+2+2	6	Prof. Dr. Stanislava Lazarevska
Marketing of Agricultural Products	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
Fishery	3+2+2	6	Prof. Dr. Katerina Belichovska

SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Fertirigation	3+2+2	6	Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
2.	Organic Viticulture	3+2+2	6	Prof. Dr. Krum Boshkov
3.	Regulations in Agri-environmental and Organic Agriculture	3+2+2	6	Prof. Dr. Elizabeta Angelova
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.			6	
5.			6	
	Total		30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Animal Hygiene	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
Plants Selection	3+2+2	6	Prof. Dr. Ljubomir Marinkovikj
Selection of Farm Animals	3+2+2	6	Prof. Dr. Vlado Vukovikj
Contemporary Genetic Methods	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska

EIGHTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Biodiversity in Agriculture	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Kocho Porchu
2.	Beekeeping with Honey Bee Products	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov
3.	Integrated Pest Mangement	3+2+2	6	Prof. Dr. Stanislava Lazarevska Prof. Dr. Rade Rusevski Prof. Dr. Zvonko Pacanoski
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
	Total		35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Medicinal and Aromatic Plants	3+2+2	6	Prof. Dr. Zoran Dimov
Wild Edible and Poisonous Plants	3+2+2	6	Prof. Dr. Elizabeta Miskoska Milevska
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Principles of Food Quality and Safety	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa

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 PROGRAMME OF
PLANT PROTECTION-PHYTOMEDICINE
AT FIRST CYCLE OF UNIVERSITY 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
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE**

Skopje, July 2017

STUDY PROGRAMME: PLANT PROTECTION – PHYTOMEDICINE

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Iljkj Popova
2.	Agricultural Machinery and Plant Protection Equipment	3+2+2	6	Prof. Dr. Zhivko Davchev
3.	Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Velkoska-Markovska
-elective courses (the student elects two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.			6	
5.			6	
6.	Sport and Health (optional)	0+2	-	Faculty of Physical Education, Sport and Health
Total			30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Statistics	3+2+2	6	Prof. Dr. Dragan Gjoshevski Asst. Prof. Dr. Ana Simonovska

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
2.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
3.	Basics of Crop Production	3+2+2	6	Prof. Dr. Zvonko Pacanoski
-elective courses (the student elects two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
Total			30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
Zoology	3+2+2	6	Prof. Dr. Katerina Belichovska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Management in Agriculture	3+2+2	6	Prof. Dr. Ana Kotevska

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Pedology	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski
2.	Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska
3.	Specialized Field Crop Production	3+2+2	6	Prof. Dr. Zoran Dimov
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Basic Greenhouse Production	3+2+2	6	Prof. Dr. Gordana Popsimonova
Genetically Modified Organisms	3+2+2	6	Prof. Dr. Zoran Popovski
Plant Physiology	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Plant Nutrition	3+2+2	6	Prof. Dr. Marina Stojanova
2.	Pomology	3+2+2	6	Prof. Dr. Tosho Arsov
3.	Principles of Irrigation	3+2+2	6	Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.				
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Production of Fruit Planting Material	3+2+2	6	Prof. Dr. Marjan Kiprijanovski
Production of Vine Planting Material	3+2+2	6	Prof. Dr. Petar Hristov
Beekeeping with Honey Bee Products	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Vegetable Production	3+2+2	6	Prof. Dr. Gordana Popsimonova
2.	General Entomology	3+2+2	6	Prof. Dr. Stanislava Lazarevska
3.	Principles of Phytopathology	3+2+2	6	Prof. Dr. Biljana Kuzmanovska
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Rural Development	3+2+2	6	Prof. Dr. Jovan Azhderski
Analytical Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Velkoska-Markovska

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agricultural Entomology I	3+2+2	6	Prof. Dr. Stanislava Lazarevska
2.	Pseudomycoses and Mycoses	3+2+2	6	Prof. Dr. Biljana Kuzmanovska
3.	Herbology	3+2+2	6	Prof. Dr. Zvonko Pacanoski
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Outdoor Floriculture	3+2+2	6	Asst. Prof. Dr. Margarita Davitkovska
Biodiversity in Agriculture	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Kocho Porchu
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska

SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agricultural Entomology II	3+2+2	6	Prof. Dr. Stanislava Lazarevska
2.	Bacterioses	3+2+2	6	Prof. Dr. Rade Rusevski
3.	Viticulture	3+2+2	6	Prof. Dr. Krum Boshkov
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.			6	
5.			6	
	Total		30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Plant Selection	3+2+2	6	Prof. Dr. Ljubomir Marinkovikj
Contemporary Genetic Methods	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
Urban Horticulture	3+2+2	6	Asst. Prof. Dr. Zvezda Bogevska
Tobacco Production	3+2+2	6	Asst. Prof. Dr. Romina Kabranova

EIGHTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agricultural Zoology	3+2+2	6	Prof. Dr. Stanislava Lazarevska
2.	Virosis	3+2+2		Prof. Dr. Rade Rusevski
3.	Phytopharmacy	3+2+2	6	Prof. Dr. Stanislava Lazarevska Prof. Dr. Rade Rusevski Prof. Dr. Biljana Kuzmanovska Prof. Dr. Zvonko Pacanoski
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
	Total		35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Integrated Pest Mangement	3+2+2	6	Prof. Dr. Stanislava Lazarevska Prof. Dr. Rade Rusevski Prof. Dr. Zvonko Pacanoski
Production of Vegetable and Flower Seeds and Seedlings	3+2+2	6	Prof. Dr. Rukie Agich
Principles of Food Quality and Safety	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
Chemical Hazards in Food	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Lenche Velkoska-Markovska

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 PROGRAMME OF
FOOD QUALITY AND SAFETY
AT FIRST CYCLE OF UNIVERSITY 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
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE**

Skopje, July 2017

STUDY PROGRAMME – FOOD QUALITY AND SAFETY

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Lenche Velkoska Markovska Asst. Prof. Dr. Mirjana S. Jankulovska
2.	Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
3.	Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska
-elective courses (the student elects two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.				
5.				
6.	Sport and Health (optional)	0+2	-	Faculty of Physical Education, Sport and Health
Total			30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Statistics	3+2+2	6	Prof. Dr. Dragan Gjosevski Asst. Prof. Dr. Ana Simonovska
Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Ilikj Popova
Pedology	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
2.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
3.	Basics of Livestock Production	3+2+2	6	Prof. Dr. Sreten Andonov
-elective courses (the student elects two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
Total			30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
Zoology	3+2+2	6	Prof. Dr. Katerina Belichovska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Anatomy and Physiology of Farm Animals	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Analytical Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Lenche Velkoska Markovska Asst. Prof. Dr. Mirjana S. Jankulovska
2.	Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski
3.	Water and Soil Quality	3+2+2	6	Prof. Dr. Tatjana Mitkova Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Cattle Production Technology	3+2+2	6	Prof. Dr. Gjoko Bunevski
Plant Physiology	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Feed Quality and Safety	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski
2.	Principles of Food Quality and Safety	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa
3.	Wild Edible and Poisonous Plants	3+2+2	6	Prof. Dr. Elizabeta Miskoska Milevska
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Pig Production Technologies	3+2+2	6	Prof. Dr. Vlado Vukovikj
Quality Management	3+2+2	6	Prof. Dr. Mile Peshevski
Basics of Crop Production	3+2+2	6	Prof. Dr. Zvonko Pacanoski

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Genetically Modified Organisms	3+2+2	6	Prof. Dr. Zoran Popovski
2.	Basic Knowledge of Fruit Crops and Vegetables	3+2+2	6	Prof. Dr. Bojan Popovski Prof. Dr. Zvezda Bogevska
3.	Milk Technology and Dairy Products	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Sheep and Goat Production Technology	3+2+2	6	Prof. Dr. Kocho Porchu
Knowledge of Grapes	3+2+2	6	Prof. Dr. Krum Boshkov
Specialized Field Crop Production	3+2+2	6	Prof. Dr. Zoran Dimov

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Fruit and Vegetable Processing	3+2+2	6	Prof. Dr. Ljubica Karakashova
2.	Processing of Field Crops	3+2+2	6	Prof. Dr. Dane Boshev Prof. Dr. Zoran Dimov
3.	Meat Technology and Meat Processing	3+2+2	6	Prof. Dr. Zlatko Pejkovski
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Phytopathology with Phytopharmacy	3+2+2	6	Prof. Dr. Rade Rusevski Prof. Dr. Biljana Kuzmanovska
Beekeeping with Honey Bee Products	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov
Entomology with Integrated Pest Management	3+2+2	6	Prof. Dr. Stanislava Lazarevska

SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Biological Hazards in Food	3+2+2	6	Prof. Dr. Metodija Trajchev
2.	Phytopharmacy	3+2+2	6	Prof. Dr. Stanislava Lazarevska Prof. Dr. Rade Rusevski Prof. Dr. Biljana Kuzmanovska Prof. Dr. Zvonko Pacanoski
3.	Wine Technology	3+2+2	6	Prof. Dr. Mihail Petkov
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.			6	
5.			6	
Total			30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Poultry Production Technology	3+2+2	6	Prof. Dr. Dragoslav Kocevski
Consumer Behaviour	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
Malt and Beer Production	3+2+2	6	Prof. Dr. Dane Boshev

EIGHTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Technology of Alcoholic and Non-alcoholic Beverages	3+2+2	6	Prof. Dr. Ljubica Karakashova Prof. Dr. Krum Boshkov
2.	Chemical Hazards in Food	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska
3.	Hygiene and Sanitation in Food Processing Industry	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
Total			35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Medicinal and Aromatic Plants	3+2+2	6	Prof. Dr. Zoran Dimov
Animal Health	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Marketing of Agricultural Products	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka

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 PROGRAMME OF
FRUIT GROWING, VITICULTURE AND ENOLOGY
AT FIRST CYCLE OF UNIVERSITY 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
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE

Skopje, July 2017

STUDY PROGRAMME: FRUIT GROWING, VITICULTURE AND ENOLOGY

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Iljkj Popova
2.	Agricultural Machinery in Fruit Growing and Viticulture	3+2+2	6	Prof. Dr. Zhivko Davchev
3.	Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Lenche Velkoska Markovska Asst. Prof. Dr. Mirjana S. Jankulovska
-elective courses (the student elects two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.			6	
5.			6	
6.	Sport and Health (optional)	0+2	-	Faculty of Physical Education, Sport and Health
Total			30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
Statistics	3+2+2	6	Prof. Dr. Dragan Gjoshevski Asst. Prof. Dr. Ana Simonovska
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
2.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
3.	General Viticulture	3+2+2	6	Prof. Dr. Petar Hristov
-elective courses (the student elects two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
Total			30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
Zoology	3+2+2	6	Prof. Dr. Katerina Belichovska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Basics of Livestock Production	3+2+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Pedology with Basics of Petrography	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski
2.	Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska
3.	General Principles of Pomology	3+2+2	6	Prof. Dr. Marjan Kiprijanovski
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Amelioration with Erosion Protection	3+2+2	6	Prof. Dr. Marija Vukeljk Shutoska
Plant Physiology	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj
Rural Development	3+2+2	6	Prof. Dr. Jovan Azhderski

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Production of Vine Planting Material	3+2+2	6	Prof. Dr. Petar Hristov
2.	Irrigation of Fruit Crops and Vine	3+2+2	6	Prof. Dr. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev
3.	Production of Fruit Planting Material	3+2+2	6	Prof. Dr. Marjan Kiprijanovski
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Economics in Agriculture	3+2+2	6	Prof. Dr. Jovan Azhderski
Grasslands	3+2+2	6	Prof. Dr. Tatjana Prentovikj

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Phytopathology with Phytopharmacy	3+2+2	6	Prof. Dr. Rade Rusevski Prof. Dr. Biljana Kuzmanovska
2.	Nutrition of Fruit Crops and Vine	3+2+2	6	Prof. Dr. Marina Stojanova
3.	Management in Fruit Production and Viticulture	3+2+2	6	Prof. Dr. Dragan Gjoshevski Asst. Prof. Dr. Ana Simonovska
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Vegetable Production	3+2+2	6	Prof. Dr. Gordana Popsimonova
Specialized Field Crop production	3+2+2	6	Prof. Dr. Zoran Dimov
Contemporary Genetic Methods	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Establishment and Cultivation of Orchards	3+2+2	6	Prof. Dr. Marjan Kiprijanovski
2.	Establishment and Cultivation of Vineyards	3+2+2	6	Prof. Dr. Petar Hristov
3.	Entomology with Integrated Pest Management	3+2+2	6	Prof. Dr. Stanislava Lazarevska
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska-Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Biodiversity in Agriculture	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Kocho Porchu

SEVENTH SEMESTER – Module FRUIT PRODUCTION

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Pomology I	3+2+2	6	Prof. Dr. Bojan Popovski
2.	Harvesting and Post-Harvest Technologies of Fruits	3+2+2	6	Prof. Dr. Tosho Arsov
3.	Table Grapes Production	3+2+2	6	Prof. Dr. Krum Boshkov
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.			6	
5.			6	
Total			30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Ampelography I	3+2+2	6	Prof. Dr. Zvonimir Bozhinovikj
Wine Technology	3+2+2	6	Prof. Dr. Mihail Petkov
Fertirigation	3+2+2	6	Prof. Dr. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev
Urban Horticulture	3+2+2	6	Asst. Prof. Dr. Zvezda Bogevska

EIGHT SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Fruit Breeding	3+2+2	6	Prof. Dr. Bojan Popovski
2.	Beekeeping and Pollination of Agricultural Crops	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska
3.	Pomology II	3+2+2	6	Prof. Dr. Bojan Popovski
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
Total			35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Fruit Processing	3+2+2	6	Prof. Dr. Ljubica Karakashova
Ampelography II	3+2+2	6	Prof. Dr. Zvonimir Bozhinovikj
Soil Degradation and Protection	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski
Technology of Alcoholic Beverages	3+2+2	6	Prof. Dr. Mihail Petkov

SEVENTH SEMESTER – Module VITICULTURE AND WINE PRODUCTION

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Ampelography I	3+2+2	6	Prof. Dr. Zvonimir Bozhinovikj
2.	Wine Technology	3+2+2	6	Prof. Dr. Mihail Petkov
3.	Vine Selection and Breeding	3+2+2	6	Prof. Dr. Petar Hristov
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.			6	
5.			6	
Total			30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Pomology I	3+2+2	6	Prof. Dr. Bojan Popovski
Harvesting and Post-Harvest Technologies of Fruits	3+2+2	6	Prof. Dr. Tosho Arsov
Table Grapes Production	3+2+2	6	Prof. Dr. Krum Boshkov
Fertirigation	3+2+2	6	Prof. Dr. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev

EIGHT SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Ampelography II	3+2+2	6	Prof. Dr. Zvonimir Bozhinovikj
2.	Sensory Analysis of Processed Grape Products	3+2+2	6	Prof. Dr. Mihail Petkov
3.	Technology of Alcoholic Beverages	3+2+2	6	Prof. Dr. Mihail Petkov
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
Total			35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Principles of Food Quality and Safety	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
Fruit Processing	3+2+2	6	Prof. Dr. Ljubica Karakashova
Pomology II	3+2+2	6	Prof. Dr. Bojan Popovski
Soil Degradation and Protection	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski

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 PROGRAMME OF FIELD CROP
PRODUCTION AT FIRST CYCLE OF UNIVERSITY
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
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE

Skopje, July 2017

STUDY PROGRAMME FIELD CROP PRODUCTION

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Agricultural Machinery in Field Crop Production	3+2+2	6	Prof. Dr. Dragi Tanevski
3.	Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Markovska
-elective courses (the student elcts two other courses from the FASF list of courses from the 1st semester besides the course in Sport and Health)				
4.			6	
5.			6	
6.	Sport and Health (optional)	0+2	-	Faculty of Phisical Education, Sport and Health
Total			30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
Statistics	3+2+2	6	Prof. Dr. Dragan Gjoshevski Ass.t. Prof. Dr. Ana Simonovska
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
2.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
3.	Economics in Agriculture	3+2+2	6	Prof. Dr. Jovan Azderski
-elective courses (the student elcts two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
Total			30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
Zoology	3+2+2	6	Prof. Dr. Katerina Belichovska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Principles of Livestock Production	3+2+2	6	Prof. Dr. Sreten Andonov

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Pedology	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Mile Markoski
2.	Microbiology	3+2+2	6	Prof. Prof. Olga Najdenovska
3.	Amelioration with Erosion Protection	3+2+2	6	Prof. Dr. Marija Vukelikj Shutoska
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Basic Greenhouse Production	3+2+2	6	Prof. Dr. Gordana Popsimonova
Plant Physiology	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Principles of Field Crop Production with Agroecology	3+2+2	6	Prof. Dr. Zvonko Pacanoski
2.	Principles of Irrigation	3+2+2	6	Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
3.	Plant Nutrition	3+2+2	6	Prof. Dr. Marina Stojanova
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

Commented [ET1]: На мк: Наводнување на поделелски култури

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Fruit production	3+2+2	6	Prof. Dr. Tosho Arsov
Wild Edible and Poisonous Plants	3+2+2	6	Prof. Dr. Elizabeta Miskoska Milevska

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Industrial Crops	3+2+2	6	Prof. Dr. Zoran Dimov
2.	Grain and Tuber Crops	3+2+2	6	Prof. Dr. Dane Boshev
3.	Fodder Crops Production	3+2+2	6	Prof. Dr. Tatjana Prentovikj
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Viticulture	3+2+2	6	Prof. Dr. Krum Boshkov
Contemporary Genetic Methods	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Tobacco Production	3+2+2	6	Asst. Dr. Romina Kabranova
2.	Grasslands	3+2+2	6	Prof. Dr. Tatjana Prentovikj
3.	Selection of plants	3+2+2	6	Prof. Dr. Ljubomir Marinkovikj
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Outdoor Floriculture	3+2+2	6	Asst. Prof. Dr. Margarita Davitkovska
Soil Degradation and Protection	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Dr. Mile Markoski
Beekeeping and Pollination of Agricultural Crops	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska

SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Quality and Processing of Tobacco Raw Material	3+2+2	6	Prof. Dr. Zlatko Arsov
2.	Phytopathology with Phytopharmacy	3+2+2	6	Prof. Dr. Biljana Kuzmanovska Prof. Dr. Rade Rusevski
3.	Management in field crop production	3+2+2	6	Prof. Dr. Mile Peshevski
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.				
5.				
Total			30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Malt and Beer Production	3+2+2	6	Prof. Dr. Dane Boshev
Vegetable Production	3+2+2	6	Prof. Dr. Gordana Posimonova
Urban Horticulture	3+2+2	6	Asst. Prof. Dr. Zvezda Borgevska
Fertirrigation	3+2+2	6	Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj

EIGHT SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Entomology with Integrated Pest Management	3+2+2	6	Prof. Dr. Stanislava Lazarevska
2.	Technology of Tobacco Products	3+2+2	6	Prof. Dr. Zlatko Arsov
3.	Processing of Field Crops	3+2+2	6	Prof. Dr. Dane Boshev Prof. Dr. Zoran Dimov
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
Total			35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Medicinal and Spice Plants	3+2+2	6	Prof. Dr. Zoran Dimov
Bussines Analysis	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Marketing of Agriculture Products	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
Food quality and safety principles	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa

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 PROGRAMME OF PROCESSING OF
AGRICULTURAL PRODUCTS AT FIRST CYCLE OF
UNIVERSITY 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
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE**

Skopje, July 2017

STUDY PROGRAMME – PROCESSING OF AGRICULTURAL PRODUCTS

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Markovska
2.	Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
3.	Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska
-elective courses (the student elcts two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.				
5.				
	Sport and Health (optional)	0+2	-	Faculty of Phisical Education, Sport and Health
	Total		30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Principles of Livestock Production*	3+2+2	6	Prof. Dr. Sreten Andonov
Agricultural Machinery	3+2+2	6	Prof. Dr. Dragi Tanevski
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Ilikj Popova
Statistics	3+2+2	6	Prof. Dr. Dragan Gjoshovski Asst. Prof. Dr. Ana Simonovska

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
2.	Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
3.	Botany*	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
3.	Zoology**	3+2+2	6	Prof. Dr. Katerina Belicovska
-elective courses (the student elcts two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
	Total		30	

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Botany**	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
Zoology*	3+2+2	6	Prof. Dr. Katerina Belichovska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Management in Agriculture	3+2+2	6	Prof. Dr. Ana Kotevska
Agricultural Entrepreneurship	3+2+2	6	Prof. Dr. Mile Peshevski
Principles of Field Crop Production**	3+2+2	6	Prof. Dr. Zvonko Pacanoski

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski
2.	Analytical Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Markovska
3.	Pedology*	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Mile Markoski
3.	Molecular Biology of Animal Cell**	3+2+2	6	Prof. Dr. Kocho Porchu Prof. Dr. Zoran Popovski
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Genetically Modified Organisms	3+2+2	6	Prof. Dr. Zoran Popovski
Pedology**	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Mile Markoski
Molecular Biology of Animal Cell*	3+2+2	6	Prof. Dr. Kocho Porchu Prof. Dr. Zoran Popovski

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Quality of Tobacco Raw Material*	3+2+2	6	Asst. Dr. Romina Kabranova
1.	Feed technology**	3+2+2	6	Prof. Dr. Srechko Georgievski
2.	Introduction to Cereals*	3+2+2	6	Prof. Dr. Dane Boshev
2.	Anatomy and Physiology of Farm Animals**	3+2+2	6	Asst. Dr. Snezhana Trojachanec
3.	Honey Bee Products **	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Dr. Aleksandar Uzunov
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Honey Bee Products*	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Dr. Aleksandar Uzunov
Basics in Agromarketing	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka
Fishery	3+2+2	6	Prof. Dr. Katerina Belichovska
Basic Knowledge of Vegetables**	3+2+2	6	Prof. Dr. Gordana Popsimonova

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Knowledge of Grapes*	3+2+2	6	Prof. Dr. Krum Boshkov
1.	Cattle Production Technology**	3+2+2	6	Prof. Dr. Gjoko Bunevski
2.	Fruit Crops*	3+2+2	6	Prof. Dr. Tosho Arsov
2.	Poultry Production Technology**	3+2+2	6	Prof. Dr. Dragoslav Kocovski
3.	Industrial Crops*	3+2+2	6	Prof. Dr. Zoran Dimov
3.	Sheep and Goat Production Technology**			Prof. Dr. Kocho Porchu
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Biological Hazards in Food	3+2+2	6	Prof. Dr. Metodija Trajchev
Fodder Crops Production**	3+2+2	6	Prof. Dr. Tatjana Prentovikj
Knowledge of Grapes**	3+2+2	6	Prof. Dr. Zvonimir Bozhinovikj
Cattle Production Technology*	3+2+2	6	Prof. Dr. Gjoko Bunevski
Fruit Crops**	3+2+2	6	Prof. Dr. Toshio Arsov
Poultry Production Technology*	3+2+2	6	Prof. Dr. Dragoslav Kocovski
Industrial Crops**	3+2+2	6	Prof. Dr. Zoran Dimov
Sheep and Goat Production Technology*	3+2+2	6	Prof. Dr. Vladimir Dzabirski

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

SIXTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Fruit Processing*	3+2+2	6	Prof. Dr. Ljubica Karakashova
1.	Pig Production Technologies**	3+2+2	6	Prof. Dr. Vlado Vukovikj
2.	Wheat and flour processing*	3+2+2	6	Prof. Dr. Dane Boshev
2.	Milk Technology**	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
3.	Vegetables Processing*	3+2+2	6	Prof. Dr. Ljubica Karakashova
3.	Meat technology**	3+2+2	6	Prof. Dr. Zlatko Pejkovski
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Fruit Processing**	3+2+2	6	Prof. Dr. Ljubica Karakashova
Pig Production Technologies*	3+2+2	6	Prof. Dr. Vlado Vukovikj
Wheat and flour processing**	3+2+2	6	Prof. Dr. Dane Boshev
Milk Technology*	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
Vegetables Processing**	3+2+2	6	Prof. Dr. Ljubica Karakashova
Meat technology*	3+2+2	6	Prof. Dr. Zlatko Pejkovski

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Wine Technology*	3+2+2	6	Prof. Dr. Mihail Petkov
1.	Hygiene and Sanitation in Food Processing Industry**	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Dr. Dimitar Nakov
2.	Malt and Beer Production*	3+2+2	6	Prof. Dr. Dane Boshev
2.	Dairy Products**	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
3.	Non-Alcoholic Beverages Production*	3+2+2	6	Prof. Dr. Ljubica Karakashova
3.	Processed Meat Products	3+2+2	6	Prof. Dr. Zlatko Pejkovski
-elective courses (the student elects one course from the FASF list of courses from the 7 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Wine Technology**	3+2+2	6	Prof. Dr. Mihail Petkov
Hygiene and Sanitation in Food Processing Industry*	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Dr. Dimitar Nakov
Malt and Beer Production**	3+2+2	6	Prof. Dr. Dane Boshev
Dairy Products*	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
Non-Alcoholic Beverages Production**	3+2+2	6	Prof. Dr. Ljubica Karakashova
Processed Meat Products*	3+2+2	6	Prof. Dr. Zlatko Pejkovski
Harvesting and Post-Harvest Technologies of Fruits	3+2+2	6	Prof. Dr. Tosho Arsov
Harvesting and Post-Harvest Technologies of Vegetables and Flowers	3+2+2	6	Prof. Dr. Rukie Agich

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

EIGHT SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Oil and sugar production*	4+2+2	6	Prof. Dr. Zoran Dimov Asst. Prof. Romina Kabranova
1.	Standards for Animal Products**	3+2+2	6	Prof. Dr. Dragoslav Kocevski Prof. Dr. Hrisula Kiprijanovska
2.	Tobacco Processing and Technology of Tobacco Products*	3+2+2	6	Prof. Dr. Zlatko Arsov
2.	Principles of Food Quality and Safety**	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
3.	Technology of Alcoholic Beverages*	3+2+2	6	Prof. Dr. Mihail Petkov
3.	Biosecurity in Primary Livestock Production**	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Dr. Dimitar Nakov
-elective courses (the student elects one course from the FASF list of courses from the 8 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Oil and sugar production**	3+2+2	6	Prof. Dr. Zoran Dimov Asst. Prof. Romina Kabranova
Standards for Animal Products*	3+2+2	6	Prof. Dr. Dragoslav Kocevski Prof. Dr. Hrisula Kiprijanovska
Tobacco Processing and Technology of Tobacco Products**	3+2+2	6	Prof. Dr. Zlatko Arsov
Principles of Food Quality and Safety*	3+2+2	6	Prof. Dr. Sonja Srbinovska Asst. Prof. Dr. Dushica Santa
Technology of Alcoholic Beverages**	3+2+2	6	Prof. Dr. Mihail Petkov
Biosecurity in Primary Livestock Production*	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Dr. Dimitar Nakov
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Marketing of Agriculture Products	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka

* compulsory/elective courses for plant processing

** compulsory/elective courses for animal processing

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 PROGRAMME OF HORTICULTURE AT FIRST
CYCLE OF UNIVERSITY 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
Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE
FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE

Skopje, July 2017

STUDY PROGRAMME – HORTICULTURE

FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Agrometeorology with Agroclimatology	3+2+2	6	Prof. Dr. Srebra Ilikj Popova
2.	Agricultural Machinery in Horticulture Production	3+2+2	6	Prof. Dr. Dragi Tanevski
3.	Pedology	3+2+2	6	Prof. Dr. Tatjana Mitkova Asst. Prof. Mile Markoski
-elective courses (the student elcts two other courses from the FASF list of courses from the 1 st semester besides the course in Sport and Health)				
4.				
5.				
	Sport and Health (optional)	0+2	-	Faculty of Phisical Education, Sport and Health
	Total		30	

FASF list of elective courses for the 1st semester

Course	Lectures load	Number of ECTS	Lecturer
Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Lenche Markovska
Biochemistry	3+2+2	6	Prof. Dr. Zoran Popovski
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Statistics	3+2+2	6	Prof. Dr. Dragan Gjoshovski Asst. Prof. Dr. Ana Simonovska

SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
2.	Genetics	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
3.	Principles of Vegetable and Flower Production	3+2+2	6	Asst. Prof. Dr. Zvezda Bogevska Asst. Prof. Dr. Margarita Davitkovska
-elective courses (the student elcts two other courses from the FASF list of courses from the 2 nd semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2	-	
	Total		30	

FASF list of elective courses for the 2nd semester

Course	Lectures load	Number of ECTS	Lecturer
Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
Wild Edible and Poisonous Plants	3+2+2	6	Prof. Dr. Elizabeta Miskoska Milevska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna

THIRD SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Basics in Greenhouse Production	3+2+2	6	Prof. Dr. Gordana Posimonova
2.	Plant physiology	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj
3.	Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska
-elective courses (the student elects one course from the FASF list of courses from the 3 rd semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 3rd semester

Course	Lectures load	Number of ECTS	Lecturer
Amelioration with Erosion Protection	3+2+2	6	Prof. Dr. Marija Vukelikj Shutoska
Agribusiness	3+2+2	6	Prof. Dr. Dragi Dimitrievski

FOURTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Nutrition of Horticultural Plants	3+2+2	6	Prof. Dr. Marina Stojanova
2.	Principles of Irrigation	3+2+2	6	Prof. Dr. Ordan Chukaliev Prof. Dr. Vjekoslav Tanaskovikj
3.	Grasslands	3+2+2	6	Prof. Dr. Tatjana Prentovikj
-elective courses (the student elects one course from the FASF list of courses from the 4 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 4th semester

Course	Lectures load	Number of ECTS	Lecturer
Economics in Agriculture	3+2+2	6	Prof. Dr. Jovan Azhderski
Principles of Livestock Production	3+2+2	6	Prof. Dr. Sreten Andonov

FIFTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Biology and Propagation of Fruit Crops and Vine	3+2+2	6	Prof. Dr. Tosho Arsov Prof. Dr. Petar Hristov
2.	Open Field Vegetable Production	3+2+2	6	Prof. Dr. Rukie Agich
3.	Park Landscape Architecture	3+2+2	6	Prof. Dr. Margarita Davitkovska
-elective courses (the student elects one course from the FASF list of courses from the 5 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 5th semester

Course	Lectures load	Number of ECTS	Lecturer
Fertirigation	3+2+2	6	Prof. Dr. Vjekoslav Tanaskovikj Prof. Dr. Ordan Chukaliev
Rural Development	3+2+2	6	Prof. Dr. Jovan Azhderski
Specialized Field Crop production	3+2+2	6	Prof. Dr. Zoran Dimov

SIXT SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Phytopathology with Phytopharmacy	3+2+2	6	Prof. Dr. Rade Rusevski Prof. Dr. Biljana Kuzmanovska
2.	Outdoor Floriculture	3+2+2	6	Asst. Prof. Dr. Margarita Davitkovska
3.	Entomology with Integrated Pest Management	3+2+2	6	Prof. Dr. Stanislava Lazarevska
-elective courses (the student elects one course from the FASF list of courses from the 6 th semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Practical Education				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 6th semester

Course	Lectures load	Number of ECTS	Lecturer
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Biodiversity in Agriculture	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Kocho Porchu

**MODUL: HORTICULTURE
SEVENTH SEMESTER**

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Urban Horticulture	3+2+2	6	Asst. Prof. Dr. Zvezda Bogevska
2.	Pomology I	3+2+2	6	Prof. Dr. Bojan Popovski
3.	Contemporary Genetic Methods	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.				
5.				
	Total		30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Indoor Flowering Plants	3+2+2	6	Asst. Prof. Dr. Margarita Davitkovska
Selection of plants	3+2+2	6	Prof. Dr. Ljubomir Marinkovikj
Greenhouse Vegetable Production	3+2+2	6	Prof. Dr. Gordana Posimonova
Harvesting and Post-Harvest Technologies of Vegetables and Flowers	3+2+2	6	Prof. Dr. Rukie Agich

EIGHT SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Establishment and cultivation of vineyards	3+2+2	6	Prof. Dr. Petar Hristov
2.	Establishment and cultivation of orchards	3+2+2	6	Prof. Dr. Marjan Kiprijanovski
3.	Ampelography II	3+2+2	6	Prof. Dr. Krum Boskov
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
	Total		35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Medicinal and Aromatic Plants	3+2+2	6	Prof. Dr. Zoran Dimov
Production of Vegetable and Flower Seeds and Seedlings	3+2+2	6	Prof. Dr. Rukie Agich
Beekeeping and Pollination of Agricultural Crops	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska
Pomology II	3+2+2	6	Prof. Dr. Bojan Popovski

MODUL: VEGETABLE AND FLOWER PRODUCTION
SEVENTH SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Greenhouse Vegetable Production	3+2+2	6	Prof. Dr. Gordana Posimonova
2.	Indoor Flowering Plants	3+2+2	6	Asst. Prof. Dr. Margarita Davitkovska
3.	Harvesting and Post-Harvest Technologies of Vegetables and Flowers	3+2+2	6	Prof. Dr. Rukie Agich
-elective courses (the student elects two courses from the FASF list of courses from the 7 th semester)				
4.				
5.				
	Total		30	

FASF list of elective courses for the 7th semester

Course	Lectures load	Number of ECTS	Lecturer
Contemporary Genetic Methods	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
Selection of plants	3+2+2	6	Prof. Dr. Ljubomir Marinkovikj
Fruit Crops	3+2+2	6	Prof. Dr. Tosho Arsov
Table Grapes Production	3+2+2	6	Prof. Dr. Krum Boshkov

EIGHT SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	Medicinal and Aromatic Plants	3+2+2	6	Проф. д-р Зоран Димов
2.	Vegetables and Flower Standardization	3+2+2	6	Asst. Prof. Dr. Zvezda Bogevska
3.	Production of Vegetable and Flower Seeds and Seedlings	3+2+2	6	Prof. Dr. Rukie Agich
-elective courses (the student elects two courses from the FASF list of courses from the 8 th semester)				
4.			6	
5.			6	
Practical Education				
-	Practical Education	0+2		
Graduation Thesis				
-	Graduation Thesis	0+3	5	
	Total		35	

FASF list of elective courses for the 8th semester

Course	Lectures load	Number of ECTS	Lecturer
Establishment and cultivation of vineyards	3+2+2	6	Prof. Dr. Petar Hristov
Establishment and cultivation of orchards	3+2+2	6	Prof. Dr. Marjan Kiprijanovski
Fruit and Vegetable Processing			Prof. Dr. Ljubica Karakashova
Soil Degradation and Protection	3+2+2	6	Prof. Dr. Tatjana Mitkova

