

REPUBLIC OF ARMENIA THE MINISTRY OF EDUCATION AND SCIENCE

Shirak State University

THE CURRICULUM

Specialty **Biotechnology**

Approved by ShSU acting rector _____ Yervand Serobyanyan'2019		Individual work	Final examination		First Year								Student's workload	ECTS	hours/ a week
List of subjects			Written examination	Oral examination	ECTS/ hours	Total hours	Lecture	Practical work	Laboratory work	Seminar	Scientific Research Practice				
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	
1st semester (16 week)															
Compulsory Modules															
1	Foreign language In professional sphere	x		x	180	32		32				148	6,0	2,0	
2	Research methodology	x		x	90	32	16	8	8			58	3,0	2,0	
Specific Modules															
3	Food microbiology	x		x	180	64	30	14	10	10		116	6,0	4,0	
4	Enzymology	x		x	90	32	14	4	8	6		58	3,0	2,0	
5	Food biotechnology	x		x	180	64	30	16	8	10		116	6,0	4,0	
6	Food and eco toxicology	x		x	90	32	16	4	8	4		58	3,0	2,0	
7	Research (Master Thesis Preparation)				90	16						74	3,0		
Total:					900	272	130	100		40		628	30,0	16,0	
2nd semester (16week)															
Compulsory Modules															
1	SPSS Statistics	x		x	90	48	18	30				42	3,0	3,0	
2	Communication Skills for Professionals	x		x	90	48	24	24				42	3,0	3,0	
Specific Modules															
3	Biosafety and environmental risk	x		x	180	48	24	12		12		132	6,0	3,0	
4	Food biochemistry	x		x	180	48	24	10	8	6		132	6,0	3,0	
Optional Modules															
5	a) Plant Biodiversity and bioproducts b) Probiotic Food Technology	x		x	90	32	16	4	8	4		58	3,0	2,0	
6	a) Microbial biotechnology b) Plant Biotechnology	x		x	90	48	20	16	6	6		42	3,0	3,0	
7	Research (Master Thesis Preparation)				180	16						164	6,0		
Total:					900	368	162	110	40	40		612	30,0	17,0	

Dean of the Faculty _____

Head of the Chair _____

REPUBLIC OF ARMENIA THE MINISTRY OF EDUCATION AND SCIENCE

Shirak State University

THE CURRICULUM

Specialty _ Biotechnology__

Approved by ShSU acting rector _____ Yervand Serobyanyan'2019		Individual work	Final examination		Second Year								Student's workload	ECTS	hours/ a week
List of subjects			Written examination	Oral examination	ECTS/ hours	Total hours	Lecture	Practical work	Laboratory work	Seminar	Scientific Research Practice				
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16	
1st semester (12 week)															
Compulsory Modules															
1	Start-up	x	x		90	48	24	24				42	3,0	4,0	
2	Management and marketing in professional sphere	x		x	90	48	24	12		12		42	3,0	4,0	
Specific Modules															
3	Bioengineering	x		x	180	48	24	12		12		132	6,0	4,0	
4	Pharmacognosy	x		x	90	36	18	10		8		54	3,0	3,0	
5	Scientific research practice				180								6,0		
6	Research (Master Thesis Preparation)				180	20						160	6,0		
Optional Modules															
7	a) Herbal medicinal preparations technology	x		x	90	24	12	6	6			66	3,0	2,0	
	b)Vegetable raw material bioconversion technology	x		x		24	12	4	8						
	c)Technology of biologically active additives from vegetable raw materials	x		x		24	12	6	6						
Total:					900	272	126	74	20	32		412	30,0	17,0	
2nd semester (10week)															
1	Research (Master Thesis Preparation)				450	20						430	15,0		
2	Scientific research practice				90								3,0		
3	Preparation and defense of the thesis				360								12,0		
Total:					900	20						430	30,0		

Dean of the Faculty _____

Head of the Chair _____

