

Research Master's Programs (with preparation of a thesis):

Academic Programme Title	University compulsory requirements	Faculty compulsory requirements	Compulsory program requirements		Optional Program Requirements	Total credit hours
			Coursec	Graduation project		
Aquaculture	2	4	12	10	12	40
Aquatic products Processing & Preservation	2	4	12	10	12	40
Aquaculture Biotechnology	2	4	12	10	12	40

Study plan for university requirements

Credit hours	Hourse				Course name	Course code
	Total	Lab	Practical	lecture		

Compulsory courses

2 Credit hours

2	2	0	0	2	Scientific Research Ethics	900201
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Study plan for college requirements

Research master's requirements

Credit hours	Hourse				Course name	Course code
	Total	Lab	Practical	lecture		

Compulsory courses

4 Credit hours

2	3	0	2	1	Advanced search methods	110202
2	3	0	2	1	Experimental Design - Advanced	110203

Study plan for Research Master's Programs

1- Aquaculture :

Course title	lecture	Practical	Credit hours	Course code
<i>Master's degree - compulsory courses</i>				
Physiology of aquatic animals	2	2	3	111201
Aquaculture Nutrition – advanced	2	2	3	111202
Genetic and Breeding of Aquatic Animals	2	2	3	111203
Fish diseases - Advanced	2	2	3	111204
<i>Master's degree - elective courses (select 4 courses)</i>				
Crustacean Nutrition	2	2	3	111205
Feed Additives for aquaculture	2	2	3	111206
Metabolism in Aquaculture	2	2	3	111207
Minerals and Vitamins of Aquaculture Nutrition	2	2	3	111208
Fish Reproduction physiology	2	2	3	111209
Physiology of Marine Larviculture	2	2	3	111210
Marine fish hatcheries	2	2	3	111211
Natural food production	2	2	3	111212
Viral diseases of Crustacean	2	2	3	111213
Safe use of wastewater In aquaculture	2	2	3	111214
Genetic Engineering	2	2	3	112206
Nanobiology	2	2	3	112210
Beneficial Microorganisms applications in Aquaculture	2	2	3	112220

2- Aquatic products Processing & Preservation

Course title	lecture	Practical	Credit hours	Course code
<i>Master's degree - compulsory courses</i>				
Seafoods processing technology - advanced	2	2	3	112201
Biochemistry - advanced	2	2	3	112202
Quality control of fisheries products- advanced	2	2	3	112203
Microbiology of fisheries products	2	2	3	112204
<i>Master's degree - elective courses (select 4 courses)</i>				
Extraction methods of active principals	2	2	3	112209
Nanobiology	2	2	3	112210
Additives and preservatives	2	2	3	112211
Quality control in food processing	2	2	3	112212
Contamination of aquatic products	2	2	3	112213
Canning technology	2	2	3	112214
Packaging technology	2	2	3	112215
Biosafety of aquatic products	2	2	3	112216
Organic Physical and sensorial properties of fish	2	2	3	112217

3- Aquaculture Biotechnology

Course title	lecture	Practical	Credit hours	Course code
<i>Master's degree - compulsory courses</i>				
Aquaculture biotechnology	2	2	3	112205
Genetic Engineering	2	2	3	112206
Food and bioenergy	2	2	3	112207
Microbial physiology	2	2	3	112208
<i>Master's degree - elective courses (select 4 courses)</i>				
Environmental biotechnology	2	2	3	112218
Nanobiology	2	2	3	112210
Cell biology and genetics	2	2	3	112219
Beneficial Microorganisms applications in Aquaculture	2	2	3	112220
Aquatic Biotechnology	2	2	3	112221
DNA and genetic analysis	2	2	3	112222
Food biotechnology - advanced	2	2	3	112223
Bioethics	2	2	3	112224