

Professional Master's Programs

Academic Programme Title	University compulsory requirements	Faculty compulsory requirements	Compulsory program requirements		Optional Program Requirements	Total credit hours
			Coursec	Graduation project		
Management of Aquaculture farms	2	4	18	10	6	40
Processing of Aquatic Products	2	4	18	10	6	40
Aquaculture Biotechnology	2	4	18	10	6	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 Writing and Communication	900101
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Study plan for college requirements

Professional master's requirements

Credit hours	Hourse				Course name	Course code
	Total	Lab	Practical	lecture		

Compulsory courses

4 Credit hours

2	3	0	2	1	Discussions	110101
2	3	0	2	1	Field studies and applications	110102

Study plan for professional master's programs

1-Management of Aquaculture farms program:

Course title	lecture	Practical	Credit hours	Course code	
<i>First semester - compulsory courses</i>					
<i>Fish farming technology</i>	1	2	2	111101	
<i>Fish nutrition</i>	1	2	2	111102	
<i>Fish hatchery technology</i>	1	2	2	111103	
<i>Optional courses</i>					
<i>Processing of Fisheries products</i>	1	2	2	111113	
<i>Aquaculture water quality</i>	1	2	2	111114	
<i>Principals of Fisheries Biology</i>	1	2	2	111115	
<i>Second semester - compulsory courses</i>					
<i>Cultivation of shrimp</i>	1	2	2	111104	
<i>Aquaculture engineering</i>	1	2	2	111105	
<i>Fundamentals of fish species cultivation</i>	2	0	2	111106	
<i>Optional courses</i>					
<i>Postharvest technology</i>	1	2	2	112104	
<i>Environmental and health hazards</i>	1	2	2	111117	
<i>Third semester - compulsory courses</i>					
<i>Fish diseases and parasites</i>	1	2	2	111107	
<i>Planning of fisheries projects</i>	1	2	2	111109	
<i>Fisheries Legislation</i>	2	0	2	111111	
<i>Optional courses</i>					
<i>Data analysis</i>	1	2	2	111118	
<i>Feasibility study of fisheries project</i>	1	2	2	111119	
<i>Fourth semester - compulsory courses</i>					
<i>Graduation project</i>	0	0	0	10	111112

2- Processing of Aquatic Products

Course title	lecture	Practical	Credit hours	Course code
<i>First semester - compulsory courses</i>				
<i>Advanced Food microbiology</i>	1	2	2	112101
<i>Applied biochemistry</i>	1	2	2	112102
<i>Seafoods processing technology</i>	1	2	2	112103
<i>Optional courses</i>				
<i>Fish nutrition</i>	1	2	2	111102
<i>Water quality</i>	1	2	2	112109
<i>Marine aquaculture technology</i>	1	2	2	112110
<i>Second semester - compulsory courses</i>				
<i>Postharvest technology</i>	1	2	2	112104
<i>Quality control of fisheries products</i>	1	2	2	112105
<i>Packaging technology</i>	1	2	2	112106
<i>Optional courses</i>				
<i>Fish diseases and parasites</i>	1	2	2	111107
<i>Active principals extraction from aquatic products</i>	1	2	2	111121
<i>Hazard analysis and control points</i>	1	2	2	112112
<i>Third semester - compulsory courses</i>				
<i>Biochemical analysis</i>	1	2	2	112107
<i>Fish plants management</i>	1	2	2	112108
<i>Fisheries Legislation</i>	2	0	2	111111
<i>Optional courses</i>				
<i>Sensory and organoleptic properties</i>	1	2	2	112113
<i>Feasibility study of fisheries project</i>	1	2	2	111119
<i>Cooling and freezing technology</i>	1	2	2	112114
<i>Fourth semester - compulsory courses</i>				
<i>Graduation project</i>	0	0	10	112115

3- Aquaculture Biotechnology:

Course title	lecture	Practical	Credit hours	Course code
<i>First semester - compulsory courses</i>				
<i>Principles of Molecular Biology</i>	1	2	2	112116
<i>Fish Genetics – advanced</i>	1	2	2	112117
<i>Fish and Crustacean biology</i>	1	2	2	112118
<i>Optional courses</i>				
<i>Crustacean farming</i>	1	2	2	112125
<i>Analysis of environmental hazards</i>	1	2	2	112126
<i>Environmental remediation</i>	1	2	2	112127
<i>Second semester - compulsory courses</i>				
<i>Advanced Food microbiology</i>	1	2	2	112101
<i>Biosafety of seafoods</i>	1	2	2	112120
<i>Practical skills in biotechnology</i>	1	2	2	112121
<i>Optional courses</i>				
<i>Fish diseases and parasites</i>	1	2	2	111107
<i>Aquatic Ecology</i>	1	2	2	112128
<i>Biotechnology of fish farming</i>	1	2	2	112129
<i>Third semester - compulsory courses</i>				
<i>Genetically modified products</i>	1	2	2	112122
<i>Quality control of fisheries products</i>	1	2	2	112105
<i>Genetic improvement of aquatic organisms</i>	1	2	2	112124
<i>Optional courses</i>				
<i>Bioreactors</i>	1	2	2	112130
<i>Biological treatment of wastes</i>	1	2	2	112131
<i>Fish and Crustacean diseases</i>	1	2	2	112132
<i>Fourth semester - compulsory courses</i>				
<i>Graduation project</i>	--	--	-	10
				112133