



Faculty of Natural Resources Department of Fisheries

BSc Program in Fisheries Sciences and Engineering							
First Semester				Second Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6098121	General Mathematics	3	-	6098068	General Physics	2	-
6098004	General Chemistry	3	-	6098123	General Ecology	2	-
6016176	Botany Morphology and Systematics	3	-	6016107	Principles of Cell and Molecular Biology	2	-
6016175	Zoology	3	-	6016104	Applied Computer Technology	2	-
1036001	Persian language	3	-	1036002	Foreign language (English)	3	-
1034001	Islamic Thought (1)	2	-	6098005	Organic Chemistry	3	-
				1036003	Physical Education (1)	1	-
				1034009	Culture and values of the Holy Defense	2	-
Third Semester				Fourth Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6098016	Meteorology	3	-	6016108	Fish and Aquatics Taxonomy	3	6098028
6016131	General Soil Sciences	2	-	6016133	General Genetics	2	-
6016010	General Microbiology	3	-	6016174	General Hydrobiology	2	-
6098028	General Ichthyology	3	6016175	6016017	Animal Physiology	2	6016175
6016132	General Biochemistry	3	6098005	6016137	Principles of Aquaculture	2	-
6098122	Statistics	3	-	6016111	Hydrotechniques and Pond Design	2	-
1034006	Analytical history of early Islam	2	-	1036004	Physical Education (2)	1	-
				1034002	Islamic Thought (2)	2	-
Fifth Semester				Sixth Semester			



Course Code	Course Title	Credits	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6016114	Fish Catching Tools	2	-	6016043	Hydrochemistry	2	6098004
6016046	Professional Foreign Language	2	-	6016110	Marine Aquaculture	3	6016109
6016106	An Introduction to Refrigerating Facilities	2	-	6098129	Geographic Information System (GIS)	2	-
6016057	Principles of Aquatics Breedings	2	6016133	6016134	Introduction to Natural Resources	3	-
6016109	Freshwater Aquaculture	3	6016137	6016118	Ornamental Fish Culture	2	6016109
6016032	Limnology	3	-	6016039	Aquatics Hygiene and Disease	3	-
6098130	Marin Ecology	2	6098123	6016037	Principles of Aquatic Nutrition	3	6016132 6016017
6098037	Fundamentals of Remote Sensing	2	-	6016115	Internship 1 (general)	3	-
1034010	The history of Islamic culture and civilization	2	-	1036006	Family and population knowledge	2	-
Seventh Semester				Eighth Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6016135	Catching Methods	2	6098028	6098132	Law & Regulations of Natural Resources	2	
6016105	Population Dynamics and Stock Assessment	2	-	6016117	Aquatic Feed Formulation	2	6016037
6016136	Principles of Seafood Processing	3	-	6016112	Seafood Products Quality Control	3	6016136
6016116	Principles of Aquaculture Engineering	2	6016109	6016119	Internship 2 (Project)	3	6016115
6016113	Oceanography	2	-				
6098018	Land Surveying	3	-				
6098131	Experimental Designs in	2	-				



	Natural Resources					
1034005	Islamic revolution of Iran	2				
Classification by the Type of the Courses						
Course Type		Credits				
General		22				
Basic		35				
Main		76				
Compulsory		133				
Optional		6				
Total Units: 139						


MSc Program in Fisheries Sciences and Engineering (Aquaculture)

First Semester				Second Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6016129	Aquatics Physiology	2	-	6016120	Research Method and Data Analysis	2	-
6016122	Management of Sustainable Catch	2	-	6016121	Aquatics Ecology	2	-
6016168	Biotechnology of Fisheries Products	2	-	6016170	Complementary Fish Culture	2	-
6016080	Complementary Nutrition of Aquatics	2	-	6016130	Aquaculture Genetics and Biotechnology	2	-
6016166	Nanobiotechnology in Fisheries	2	-	6016128	Water Quality Management in Aquaculture	2	-
6016126	Live Food Culture	2	-	6016171	Complementary Culture of Aquatics	2	-
6016127	Health Management of Aquaculture Farms	2	-				
Third Semester				Fourth Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6016103	Thesis	6	-	6016103	Thesis	6	-

Classification by the Type of the Courses

Course Type	Credits
General	10
Main	12
Thesis	6
Compulsory	28
Optional	4
Total Units: 32	


MSc Program in Fisheries Sciences and Engineering (Aquatic Ecology)

First Semester				Second Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6016129	Aquatics Physiology	2	-	6016120	Research Method and Data Analysis	2	-
6016122	Management of Sustainable Catch	2	-	6016121	Aquatics Ecology	2	-
6016168	Biotechnology of Fisheries Products	2	-	6016138	Physiological Ethology of Aquatics	2	-
6016169	Complementary Limnology	2	-	6016140	Benthos Ecology	2	-
6016141	Molecular Ecology of Aquatics	2	-	6016172	Complementary Hydrobiology	2	-
6016143	Aquatic Ecosystems Assessment and Conservation	2	-	6016142	Bioindicators in Aquatic Systems	2	-
6016157	Impact Assessment of Fisheries Activities	2	-				
Third Semester				Fourth Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
6016103	Thesis	6	-	6016103	Thesis	6	-

Classification by the Type of the Courses

Course Type	Credits
General	10
Main	12
Thesis	6
Compulsory	28
Optional	4
Total Units: 32	



PhD Program in							
First Semester				Second Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
Third Semester				Fourth Semester			
Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites	Course Code	Course Title	Credit(s)	Prerequisites/Co-requisites
Classification by the Type of the Courses							
Course Type		Credits					
Total Units:							