



Summary of Curriculum
Independent Learning – Independent Campus 2021

Semester I

No	Code	Course	Credit	ECTS	Prerequisite
1	MKU-101	Pancasila	2 (1-1)	3.02	
2	MKU-102	Religion Education	3 (1-2)	4.53	
3	MKU-105	English	2 (1-1)	3.02	
4	MFE-101	Mathematics	3 (3-0)	4.53	
5	MFE-102	Physics	3 (2-1)	4.53	
6	MFE-104	Biology	3 (2-1)	4.53	
7	IKL-101	Introduction to Marine Science and Fisheries	2 (2-0)	3.02	
8	IKL-102	Aquatic Invertebrate	3 (2-1)	4.53	
			21 (14-7)	31.71	

Semester II

No	Code	Course	Credit	ECTS	Prerequisite
1	MKU-103	Bahasa Indonesia	3 (1-2)	4.53	
2	MKU-104	Civic Education	2 (1-1)	3.02	
3	MKU-106	Computers and Programming (Coding)	3 (1-2)	4.53	
4	MFE-103	Chemistry	3 (2-1)	4.53	
5	MFE-105	Introduction to Natural Resources and the Environment	2 (2-0)	3.02	
6	IKL-103	Ichthyology	3 (2-1)	4.53	
7	IKL-104	Marine Biology	3 (2-1)	4.53	
8	IKL-105	Fundamental of Management	2 (2-0)	3.02	
			21 (13-8)	31.71	

Semester III

No	Code	Course	Credit	ECTS	Prerequisite
1	IKL-201	Statistics	3 (3-0)	4.53	
2	IKL-202	Fishing Methods	3 (2-1)	4.53	
3	IKL-203	Fisheries Biology	3 (2-1)	4.53	IKL-103
4	IKL-204	Tropical Marine Ecology	3 (2-1)	4.53	
5	IKL-205	Coralogy	3 (2-1)	4.53	
6	IKL-206	Chemical Oceanography	3 (2-1)	4.53	
7	IKL-207	Diving	3 (1-2)	4.53	
			21 (16-7)	31.71	

Semester IV

No	Code	Course	Credit	ECTS	Prerequisite
1	IKL-208	Oceanography Physics	3 (2-1)	4.53	
2	IKL-209	Marine Instrumentation	2 (2-0)	3.02	
3	IKL-210	Basic Acoustics	2 (2-0)	3.02	
4	IKL-211	Marine Quantitative Analysis	3 (2-1)	4.53	



MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY

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FACULTY OF AGRICULTURE

BACHELOR IN MARINE SCIENCE

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5	IKL-212	Marine Remote Sensing	3 (2-1)	4.53	
6	IKL-213	Marine Microbiology	3 (2-1)	4.53	
7	IKL-214	Marine Geology	3 (2-1)	4.53	
8	IKL-215	Fishing Grounds	2 (2-0)	3.02	
			21 (16-5)	31.71	

Semester V

No	Code	Course	Credit	ECTS	Prerequisite
1	IKL-301	Marine Acoustics	3 (2-1)	4.53	
2	IKL-302	Marine Biotechnology	3 (2-1)	4.53	IKL-213
3	IKL-302	Marine Meteorology	3 (2-1)	4.53	
4	IKL-304	Marine Resource Mapping	3 (2-1)	4.53	
5	IKL-305	Oceanography Fisheries	3 (2-1)	4.53	
6	IKL-306	Marine Research Methods	3 (2-1)	4.53	IKL-201
7	IKL-307	Coastal and Marine Resources Economics	3 (2-1)	4.53	
			21 (16-5)	31.71	

Semester VI

No	Code	Course	Credit	ECTS	Prerequisite
1	MKU-300	Entrepreneurship	3 (2-1)	4.53	
2	MFE-200	Scientific Papers	2 (2-0)	3.02	IKL-213
3	MFE-300	Academic English	2 (2-0)	3.02	
4	IKL-308	Exploration of Marine Biological Resources	3 (2-1)	4.53	
5	IKL-309	Conservation and Rehabilitation of SDHL	3 (2-1)	4.53	
6	IKL-310	Water Quality Analysis Methods	3 (2-1)	4.53	IKL-201
7	IKL-311	Geographic Information Systems	3 (2-1)	4.53	
8	IKL-314	Marine Pollution (Elective Courses)	3 (2-1)	4.53	
			22 (15-6)	33.22	

Semester VII

No	Code	Course	Credit	ECTS	Prerequisite
1	IKL-401	Coastal Disaster Mitigation	3(2-1)	4.53	
2	IKL-402	Integrated Coastal Area Management	3(2-1)	4.53	IKL-213
3	IKL-403	Field Work Practices	3(0-3)	4.53	
4	MKU-400	KKN	4(0-4)	6.04	
5	IKL-315	Bioprocess Technology (Elective Courses)	3 (2-1)	4.53	
6	IKL-410	Aquatic Environmental Impact Assesment	3 (2-1)	4.53	
			19 (8-11)	28.69	

Semester VIII

No	Code	Course	Credit	ECTS	Prerequisite
1	MFE-400	Undergraduate Thesis	5(5-0)	7.55	MFE-200 and IKL-306
			5	7.55	



Elective Courses

No	Code	Course	Credit	ECTS	Prerequisite
1	IKL-313	Underwater Detection Technique	3(2-1)	4.53	IKL-209
2	IKL-314	Marine Pollution	3(2-1)	4.53	
3	IKL-315	Bioprocess Technology	3(2-1)	4.53	
4	IKL-316	Mariculture	3(2-1)	4.53	
5	IKL-317	Sedimentology	3(2-1)	4.53	
6	IKL-318	Fish Behavior	3(2-1)	4.53	
7	IKL-319	Ecotoxicology	3(2-1)	4.53	
8	IKL-406	Bioremediation	3(2-1)	4.53	
9	IKL-407	Marine Tourism Area Management	3(2-1)	4.53	
10	IKL-408	Phytoplankton	3(2-1)	4.53	
11	IKL-409	Marine Resources Utilization Technology	3(2-1)	4.53	
12	IKL-410	Aquatic Environmental Impact Assessment	3(2-1)	4.53	
13	IKL-411	Marine Bioprospecting	3(2-1)	4.53	
14	IKL-412	Water Products Handling and Processing Technology	3(2-1)	4.53	
15	IKL-413	Aquatic Productivity	3(2-1)	4.53	
			45(30-15)	67.95	

Remark

	: Basic Sciences
	: Sosial Science and Humanities
	: Fisheries Science
	: Fisheries Resources Economics
	: Marine Bioecology
	: Oceanography and Meteorology
	: Marine Acoustics and Instrumentation
	: Marine Bioprospecting
	: Remote Sensing and GIS
	: Coastal Management and Disaster Management
	: Research Methods and Data Analysis
	: Marine Practice with Internship
	: Community Development
	: Thesis

*ECTS: European Credit Transfer System

** To complete the bachelor programme, students have to take a minimum of 144 credits or 217.44 ECTS during 8 Semester