

Module Handbook: Capture Fisheries Industry

Module designation	This course provides an understanding and knowledge of various aspects of the capture fisheries industry, which includes the fishing gear industry, the shipping industry, and the fishing operational industry. We will discuss the potential for industrial development and the current status of the capture fisheries industry in Indonesia and around the world. We will also discuss the challenges in developing and achieving industrial sustainability.
Semester(s) in which the module is taught	Second Semester
Person responsible for the module	1. Prof. Dr. Ir. Djumanto, M.Sc. 2. Prof. Saudi, S.Pi., M.Agr.Sc., Ph.D.
Language	Indonesian
Relation to curriculum	<i>Elective Course</i>
Teaching methods	Activities: a) Lecture (lecture and discussion) b) Examinations c) Take-home assignments d) Quiz e) Student presentation
Workload (incl. contact hours, self-study hours)	Working hours: 2 credits of theory. Total Workload: 2 SCU (Semester Credit Unit) = 2 x 45 hours within 1 semester = 3.34 ECTS.
Credit points	2 Credit points
Required and recommended prerequisites for joining the module	<i>None</i>

Module objectives/intended learning outcomes	Program Learning Outcomes: PLO3: Applying logical, critical, systematic, and innovative thinking by utilizing information technology for fish farming, fishery resource management, or fishery product processing PLO6: Assess and compile scientific concepts and research findings based on scientific principles, procedures, and ethics, producing theses and publications in accredited scientific journals. Course Learning Outcomes: CLO1: Able to examine problems and formulate appropriate solutions in the field of aquaculture/aquatic resource management/fish product technology. (PLO3) CLO2: Able to construct ideas derived from scientific principles, procedures, and ethics to address issues, and foster novel technologies in the area of fisheries and marine matters. (PLO6)
Content	1. Definition of Industry in General 2. Objectives of Industrial Development 3. Definition of Fisheries Industry 4. Types of fisheries industry sectors 5. Industry Requirements 6. Definition of Capture Fisheries (Sea and Land Capture) 7. Fisheries Industry Update 8. Characteristics of capture fisheries business 9. Fishing Gear Material 10. Fishing Gear Material Industry 11. Fishing Gear Industry 12. Issues in the Fishing Industry 13. Fishing Gear Industry in Indonesia 14. Types of Fishing Gear

Examination forms	<table><tr><td><i>Evaluation Basis</i></td><td><i>Evaluation Components</i></td><td><i>Percentages</i></td><td><i>CLO1</i></td><td><i>CLO2</i></td></tr><tr><td rowspan="2"><i>Participatory Activity</i></td><td><i>Group presentation</i></td><td><i>15%</i></td><td></td><td>√</td></tr><tr><td><i>Quiz</i></td><td><i>15%</i></td><td>√</td><td></td></tr><tr><td><i>Project results/case study results</i></td><td><i>Individual/ Group Assignment</i></td><td><i>30%</i></td><td></td><td>√</td></tr><tr><td rowspan="2"><i>Cognitive</i></td><td><i>Mid Exam</i></td><td><i>20%</i></td><td>√</td><td></td></tr><tr><td><i>Final Exam</i></td><td><i>20%</i></td><td></td><td>√</td></tr><tr><td></td><td><i>Total</i></td><td><i>100%</i></td><td></td><td></td></tr></table>					<i>Evaluation Basis</i>	<i>Evaluation Components</i>	<i>Percentages</i>	<i>CLO1</i>	<i>CLO2</i>	<i>Participatory Activity</i>	<i>Group presentation</i>	<i>15%</i>		√	<i>Quiz</i>	<i>15%</i>	√		<i>Project results/case study results</i>	<i>Individual/ Group Assignment</i>	<i>30%</i>		√	<i>Cognitive</i>	<i>Mid Exam</i>	<i>20%</i>	√		<i>Final Exam</i>	<i>20%</i>		√		<i>Total</i>	<i>100%</i>		
	<i>Evaluation Basis</i>	<i>Evaluation Components</i>	<i>Percentages</i>	<i>CLO1</i>	<i>CLO2</i>																																	
	<i>Participatory Activity</i>	<i>Group presentation</i>	<i>15%</i>		√																																	
		<i>Quiz</i>	<i>15%</i>	√																																		
	<i>Project results/case study results</i>	<i>Individual/ Group Assignment</i>	<i>30%</i>		√																																	
	<i>Cognitive</i>	<i>Mid Exam</i>	<i>20%</i>	√																																		
		<i>Final Exam</i>	<i>20%</i>		√																																	
		<i>Total</i>	<i>100%</i>																																			
	<i>The total percentage of participatory activities and project results/case studies/PBL results is at least 50%.</i>																																					
Study and examination requirements	Students can join the course by registering the study plan (KRS) to enroll in the chosen subjects in each academic semester. The students must meet minimum attendance requirements 70% for joining the final examination.																																					

Reading list	1. Dahuri, R. 2002. Fisheries as a national mainstay sector in Marine and fisheries development policies and strategies. Achieving noble ideals. Cholik, F., Heruwati, E.S., Jauzi, A., dan Basuki, P.I. (Eds). ISPIKANI . 13-39 2. Suadi, 2006. Tracing the growth pattern of Indonesia's marine fisheries industry: Some Notes on Innovation. 6(XVIII). 3. Aoki, I., Yamakawa, T. and Takasuka, A. (eds) (2018) Fish Population Dynamics, Monitoring, and Management: Sustainable Fisheries in the Eternal Ocean. Tokyo: Springer Japan. 4. Fauziyah, D. et al. 2025. Fish Stock Assessment. Indonesia: Halaman Moeka Publishing. 5. Felix, S., Durairaj, R., Jayakumar, N. and Jawahar, P. 2021. Fish Population Dynamics and Stock Assessment. Softcover edn. New Delhi: Daya Publishing House. 6. Jayakumar, N. 2018. Fish Population Dynamics and Stock Assessment. New Delhi: IBP Books. 7. King, M. 2017. Fisheries Biology, Assessment and Management 2nd edn. Hoboken, NJ: Wiley-Blackwell.
--------------	---