UNIVERSITY OF BENGKULU

BACHELOR IN MARINE SCIENCE

Our study programme develops the quality of human resources through marine science and technology for the utilisation and management of coastal and deep-sea resources in the western Region of Sumatra. You'll study marine biology, coastal and marine management, fisheries, oceanography, and Geographic Information Systems (GIS). We motivate our graduates to be marine leaders who can keep the sustainability of marine resources. You can also learn how to solve any problems that occur in the marine environment, such as climate change, marine pollution, and food security. We don't only learn about marine in the classroom, but also observe the ocean directly through field and laboratory practicum, marine practice, and field trip to the institutions where the students can apply after graduation. However, you are very welcome to join and learn directly from the ocean.

About Us

As the only Marine Science Study Programme in the Western Region of Sumatra, we focus on elevating the value of marine resources. Due to that, we don't just teach marine and fisheries sciences but we do it! Our staff are experts in fisheries and marine science. We are conducting research about management of fisheries that focus on glass eels and tuna, GIS and remote sensing in coastal and benthic habitat, marine pollution especially about marine debris and microplastics, as well as biotechnology and bioprospecting of marine macroalgae. Our modules are based on pioneering research on fisheries and marine science. Furthermore, we have laboratory and field tools that support and develop the activities in our study programme.

The Only One Marine Science Study Programme in West Coast Sumatera

Has a wide field practice area along West Coast Sumatera

Microplastic Equipment (FT-IR)

The only microplastic testing equipment in Bengkulu Province

Competent Teaching Staff

Coastal Marine Management, Remote Sensing and GIS, Marine Technology, Biotechnology, Marine Pollution, Capture Fisheries, and Mariculture

Enggano Island Foster Village

Coastal community empowerment to increase social economic resilience

Marine Science - BSc

Our last one year of four-years BSc is a research-led course covering the full breadth of marine science. The three-year BSc is the lectures activities using project-based learning and case solving to understand the marine and fisheries scope and practicals. You will develop and carry out the research project on a topic that matches your interests.

Visit us:

www.agriculture.unib.ac.id/bms

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How We Teach

We teach through lectures, tutorials, and small group seminars in order to make students understand about marine and fisheries science. We also combine the lectures based on research small groups, lab and field research practicals, and research experience via projects and critical reviews. The teaching that we have been doing are laboratory tutorials, studying, apprenticeship, on the job training, public lecture, volunteering, seminar, unit test and research. You will study about biota biology, sea biotechnology, GIS, conservation and biodiversity. We encourage students to achieve their best work.

Our marine science modules cover coastal and deep sea (exploration, exploitation and management), disaster and climate change, fisheries resources, utilization and marine bioprospecting. You will explore several techniques to investigate marine and fisheries biodiversity, conservation, remote sensing and GIS on marine spatial planning, fisheries capture, oceanography, and marine technology.

You will have to join a field trip for a few days. The destinations are public agencies and private agencies to find jobs which are available in the marine and fisheries sector. You will determine the field trip destination including Marine and Fisheries Affairs of the Republic of Indonesia, National Research and Innovation Agency, Geospatial Information Agency, big companies in fisheries and marine development, etc.

Our Facilities

Our students get to use our facilities such as classroom, seminar room, lab with microplastic test advanced tools and fishery biotechnology equipment, hall, parking lot, administration office, discussion room, and library. You will also get the opportunity to use the modern tools for microplastic analysis, water check quality analysis, acoustic analysis, Environment for Visualizing Images (Envi) for digital image analysis.

Research Theme

We devide our research into coastal and deep sea management, disaster management, as well as marine and fisheries bioprospecting. In coastal and deep-sea management, we focus on exploring the coastal and deep-sea ecosystem to discover the condition and identify the potential. Disaster management theme study about identifying the disaster potential and effect of climate change. Afterward, we look for the mitigation ways by coastal management. The fisheries team are focusing on tuna, glass eels, and capture fisheries. While the bioprospecting team are exemining the potential of marine macroalgae the coastal of Bengkulu. To begin with, they determine the macroalgae biodiversity along the coastal of Bengkulu, then identify the characteristics. Then, they test the antioxidant from each macroalgae to determine the best habitat and harvesting time.

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Our Graduates

You don't have to confuse about what kind of job you will get after graduation. Our graduates spread through any kind of field works that are associated with fisheries and marine science. You can work in govermantal institution, state-owned enterprises, fisheries compenies, school and university, NGO, or even owned a business. Some of our graduates have been succes as lecturers, civil servants, enterpreneur, employee in fisheries compenies, conservist, environmental consultant, and teacher in shool of fisheries

Our study programme graduates students who understand the concepts and apply their knowledge about marine and fisheries in every aspect. We also encourage the graduates to implement their knowledge for the development of coastal and small island spatial planning, socio-economy, marine, and fisheries management, until making the regulation is needed. Furthermore, the graduates are able to evaluate marine and fisheries issues to solve any kind of problems that emerged from marine and fisheries field works.

Some of the courses offered in the Marine Sciences Study Program are:

Marine biological resource management orientation is reflected in courses such as Introduction to Natural Resources and The Environment, Fisheries Biology, Marine Biology, Tropical Marine Ecology, Coralogy, Marine Acoustics, Marine Resource Mapping, Geographic Information Systems, and Coastal and Marine Resource Economics. The scientific orientation of fisheries is reflected in the courses of Ichthyology, Fishing Methods, Fishing Areas, Fisheries Oceanography, Fish Behavior, and Technology for using Marine Biological Resources. The scientific orientation for managing coastal and deep-sea areas and small islands is reflected in the courses of Chemical Oceanography, Physics Oceanography, Marine Quantitative Analysis, Marine Meteorology, Conservation and Rehabilitation of Marine Biological Resources, Water Quality Analysis Methods, Coastal Area Disaster Mitigation, and Integrated Coastal Area Management.

Code	Course	Credit	Additional Information
IKL-203	Fisheries Biology	3 (2-1)	Required
IKL-104	Marine Biology	3 (2-1)	Required
IKL-204	Tropical Marine Ecology	3 (2-1)	Required / Independent Learning Independent Campus (MBKM)
IKL-205	Coralogy	3 (2-1)	Required / Independent Learning Independent Campus (MBKM)
IKL-301	Marine Acoustics	3 (2-1)	Required / Independent Learning Independent Campus (MBKM)
IKL-304	Marine Resource Mapping	3 (2-1)	Required / Independent Learning Independent Campus (MBKM)
IKL-202	Fishing Methods	3 (2-1)	Required
IKL-312	Coastal and Marine Resource Economics	3 (2-1)	Required / Independent Learning Independent Campus (MBKM)
IKL-206	Chemical Oceanography	3 (2-1)	Required

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