



DEPARTMENT OF GEOMATICS ENGINEERING
UNDERGRADUATE PROGRAM IN GEOMATICS ENGINEERING
COURSE SYLLABUS

COURSE	Name	Ocean and Coastal Management
	Code	RM184940
	Credits	3 (three)
	Semester	Elective Course

COURSE DESCRIPTION

This course explains about the legal basis, the basic concepts of management, utilization, and development of coastal and marine areas in an integrated and sustainable manner. Basic theory regarding the concepts of management, utilization, and development of coastal and marine areas will be provided so that students will have knowledge about how to manage and develop coastal and marine areas and can provide analysis related to solutions to the problems that occur in coastal and marine areas. To understand and gain experience in managing coastal and marine areas, students will be given the task of coastal monitoring and marine areas including analysis of management activities, utilization, development, and problems in the coastal and marine areas.

EXPECTED LEARNING OUTCOME

D	Able to perform spatial data acquisition using modern measurement methods, geospatial data processing, using industry standard software, and making standard designs and analyzes in the fields of geodesy, surveying,
E	Able to apply information & communication technology and the latest technological developments in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, geographic information systems, and cadastral.
G	Able to plan, perform and evaluate the process of surveying and mapping activities using the latest technology in the fields of geodesy, surveying, hydrographic, remote sensing, photogrammetry, and cadastral.
J	Able to apply the concepts of management, entrepreneurship, the latest technology-based innovation, sustainable and environmentally sound.

COURSE LEARNING OUTCOME

1	Students are able to explain the concepts and definitions of management, utilization, and development of coastal and marine areas in an integrated and sustainable manner
2	Students know zoning for the management of coastal and marine areas
3	Students are able to explain the concept of mastery of coastal waters and small islands
4	Students are able to analyze sediment transports in coastal waters and small islands

COURSE MATERIALS

1	This course examines the legal basis, basic concepts of management, utilization, and development of coastal and marine
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PREREQUISITE

Introduction to Geographic Information System, Hydrographic Survey

REFERENCES

A.	Main References
1	Dahuri, R., Jacub Rais, Sapta Putra Ginting, dan M.J. Sitepu. 2001. Pengelolaan Sumberdaya Wilayah Pesisir dan Laut
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B.	Additional References
1	Marfai, M. A., Hizbaron, D. R. 2016. Arahan Pengembangan Kawasan. Yogyakarta. Gadjah Mada University Press

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