



MODULE HANDBOOK

Coastal Landform Dynamics

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Faculty of Mathematics and Natural Sciences
Universitas Indonesia

Coastal Landform Dynamics

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| Module designation | Coastal Landform Dynamics |
| Semester(s) in which the module is taught | Sixth (6th) Semester |
| Person responsible for the module | Dra. Ratna Saraswati, M.Si. |
| Lecturer | 1. Dra. Ratna Saraswati, M.Si. |
| Language | Bahasa Indonesia |
| Relation to curriculum | Elective |
| Teaching methods | Student-centered Learning and combination with Cooperative Learning |
| Workload (incl. contact hours, self-study hours) | <ol style="list-style-type: none"> 1. Lectures: 100 minutes per week per semester 2. Assignment: 120 minutes per week per semester 3. Independent study: 120 minutes per week per semester 4. Minutes x weeks x semester: $340 \times 14 \times 1 = 4760$ minutes per semester 5. Midterm Examination: 100 minutes per semester 6. Final Examination: 100 minutes per semester 7. Total workload per semester: 4950 minutes / 82 hours 40 minutes |
| Credit points | 2 (Two) |
| Required and recommended pre-requisites for joining the module | <ol style="list-style-type: none"> 1. Principles and Perspective in Physical Geography 2. System and Process of Physical Geography |
| Module objectives/intended learning outcomes | The learning achievement of this course is that students are able to conduct spatial analysis of the coastal formation process and the dynamics of existing coastal land. The learning method discussed and trained is by interactive lectures and active learning through small group discussions, case studies, and problem-based learning. The scope of the study material in this course includes coastal forming material, the processes that occur and the dynamics of the shape of the coastal land produced by the process |
| Content | <ol style="list-style-type: none"> 1. Describing coastal forming material 2. Explaining the coastal formation process 3. Explaining and analyzing the form of the coastal land 4. Analyzing and synthesizing the form of coastal land and its use for human |
| Examination forms | - |
| Study and examination requirements | <ol style="list-style-type: none"> 1. Individual Score (40%) 2. Group and Presentation Score (10%) 3. Mid Examination (20%) 4. Final Examination (30%) |

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| Reading list | <p>Davidson-Arnott, R. 2010. An Introduction to Coastal Process and Geomorphology. Cambridge University Press. The Edinburgh Building, Cambridge.</p> <p>Bird, E. 2008. Coastal Geomorphology. An Introduction. Second Edition. John Wiley & Sons. England</p> <p>Pethick, J. 1995. An Introduction to Coastal Geomorphology. Edward Arnold. A member of the holder Headline Group. London</p> <p>Sulaiman, A & I. Soehardi. 2008. Pendahuluan Geomorfologi Pantai Kuantitatif. BPPT</p> <p>Jurnal coastal geomorphology</p> <p>French, F.W. 1997. Coastal and Estuarine Management. Routledge. London & New York</p> <p>Guo, H., & Jiao, J.J. 2009. Coastal Groundwater system changes in response to large-scale land reclamation. Nova Science Publishers Inc., New York.</p> |
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