

SUB COURSE B : STRANDS OF SAND

Managing Sustainable Coastal Development and Planning

The coastal area is a transitional area between land and ocean that has a physical boundary. As the largest archipelago, Indonesia's coastal areas are very strategic with their comparative and competitive advantages that could be the prime mover of the national development. In Indonesia's history, most big cities have their beginning at coastal areas i.e. Jakarta, Surabaya, Semarang, and Balikpapan because of geographical advantages and environmental services. To optimize the use of marine and coastal resources, policy intervention through spatial planning, government handling, and cooperation between stakeholders including public and private sectors are required. In CommTECH Camp Highlight 2016, Strands of Sand subjects will take you to discuss and simulate the management of coastal planning in this archipelagic country, Indonesia. The highlights in this subject consist of Coastal Planning Policies, Integrated Coastal Zone Management (ICZM), Coastal Risk Management, and Coastal Tourism. This program is designed to suit bachelors, masters or doctoral students with or without specific knowledge in coastal development and planning. The difference between the two modes are the assignments. The rest is just new knowledge, inspiring insights, fun, rewarding, and life-changing experiences.

- Level : Bachelors, masters, or doctoral students with or without specific background in the area of coastal development and planning.
- Lecturer : Adjie Pamungkas, ST. M.Dev.Plg., Ph.D
Dian Rahmawati, ST.MT.
- Date : 22nd – 31st of August 2016
- Min. Participants : 15 persons

Details of Schedule :

Day 1		Day 6	
	Opening Ceremony	Morning	City Tour
Noon	Lunch	Noon	SME Visit
	Campus Tour	Evening	Trip to Bromo
Evening	Welcoming Dinner		
Day 2		Day 7	
Morning	Course	Morning	Bromo Adventure
Noon	Indonesian Language Course	Noon	Rafting
	Traditional Games		
Day 3		Day 8	
Morning	Course	Noon	Preparation for Presentation
Noon	Traditional Music & Dance		Visit SME's Center
	Visit Mirota Batik		
Day 4		Day 9	
Morning	Course	Morning	Presentation in Department for New Students
Noon	Course on Ethno-Photography	Noon	Presentation & Exhibition for The Project
	Course on Tourism Documentary Video	Evening	Dinner with City Mayor
Day 5		Day 10	
All Day	Site Visit	Morning	Amazing Race - Surabaya Walk
		Evening	Closing Ceremony & Fireworks

Synopsis of the course :

Topic 1 : Identification and Analysis of Coastal Ecosystems

Coastal ecosystems are very diverse. Examples of coastal ecosystems in general are estuaries, mangroves, sea grass beds, and coral reefs. Participants will be invited to identify some damage issues that strongly impact on the survival of the coastal ecosystem. Participants will also be invited to analyse and formulate the empowerment of these ecosystems in order to be able to support the sustainability of coastal area.

Topic 2 : Coastal Planning Policies

Indonesia has policies in each level of the urban hierarchy. The policies include many regulations in coastal planning areas. Coastal planning policies are needed to be analyzed in order to produce an integrated coastal area planning with other areas planning. In this course, various policies especially the one's that is organizing the coastal will briefly explained, along with the examples and analysis.

Topic 3 : Integrated Coastal Zone Management

In coastal planning is known the term of integrated coastal management that can referred as Integrated Coastal Zone Management (ICZM). Participation of coastal communities in planning is needed, especially in the formulation of conflict of interest and conflict of utilization which might arise. Participants will be invited to identify the roles and the duties of the various parties, such as community, local government, and the private sector. Participants will also be invited to formulate strategies for integrated coastal planning.

Topic 4 : Coastal Risk Management

The coastal areas also has the potential for disaster especially tsunami and storm surge. Not all coastal areas that are vulnerable to disasters would be left out without any effort of mitigation. Disasters cannot be avoided, but it can be prevented and minimized the impact. Participants

will be taught what kind of strategy should be done in coastal planning in order to create the best coastal planning.

Topic 5 : Coastal Tourism

One of the main potential in the coastal areas are its natural resources which can be used as tourism. Coastal tourism especially in Indonesia have many contribution for Indonesian economy. Participants will learn about comprehensive and sustainable tourism planning through literature reviews on the development of coastal tourism area that have been successful.

Topic 6 : Waterfront City

Planning coastal areas not only on the waters, but we can also planned it on the part of its island. Waterfront city can be one of the development concept either on the beach, river or lake that are considered as a very effective plan to be applied. Participants will be invited to identify the elements of a waterfront city concept in the world and what strategy should be implemented in order to achieve that goal.

Topic 7 : Wrapping Up and Review

At the end of the course, participants will have time to wrap up and review all the topics that had been learned. The findings and the ideas for future improvements will be presented. Last but not least, individual insights and initiative for coastal development and planning in each participant's context will be shared.

Lecturers :

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Academic and Research Publication :

- Lecturer in Coastal Series subject:
- Introduction of Coastal Environment;
- Coastal Zone Planning Theory;
- Coastal Zone Planning Practice;
- Coastal Zone Management in Muncar, Banyuwangi;
- Coastal Zone Management in Kota Surabaya;
- Development Concept of Minapolitan Coastal Housing and Settlement in Lamongan;
- Maritime Roadshow (BEM-FTSP): Sustainable Marine Development ;
- Integrated Tourism Development in Coastal Zones and Small Islands in: Bokori Island (Southeast Sulawesi), Rote Island (NTT), and Sumenep;
- Review of Coastal Zoning and Policy in East Java (Board of Fisheries and Ocean of East Java).
- Martadwiprani, Rahmawati. 2014. *Procedia Social and Behavioral Science: Economic Development as Community Resilience Enhancement in Minapolis Coastal Settlement*. Indonesia. Elsevier;
- Devina, Setiawan, Rahmawati. 2014. *Procedia Social and Behavioral Science: Identification of Indicators Influencing Sustainability of Minapolitan Area in Lamongan Regency*. Elsevier
- Pamungkas and Rahmawati. 2013. *Diktat Teori Perencanaan Kawasan Pesisir*. ISBN 978-602-71612-3-8. Dept of Urban and Regional Planning ITS.
- Rahmawati, Santoso, Setiawan, Navitas. 2012. *Diktat Praktek Perencanaan Kawasan Pesisir*. ISBN 978-602-71612-4-5. Dept of Urban and Regional Planning ITS.

2. Name : Adjie Pamungkas, ST. M.Dev.Plg., Ph.D
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Academic and Research Publication :

- Pamungkas, A., Krisdianto, J., Iranata, D., and Sodiq, M., (2014), A Prospect for the New Industrial Estate in Segendis Bay, Bontang, Paper will be presented at October 24-26th 2014 Martec 2014: The Strategic Role of Blue Technology in the Global Economic Shift, Surabaya.
- Pamungkas, A., Sulisetyono, A., Hidayah, Z., and Sunyigono, A.K., (2014), Mainstreaming Development Strategies for Independent Small Island: Case study of Poteran Island, Madura, Paper presented at 2nd Binnale – International Conference on Indonesian Architecture and Planning, Jogjakarta.
- Pamungkas, A., Sulisetyono, A., Hidayah, Z., dan Sunyigono A.K., (2014) Indikator Kemandirian Pulau Kecil: Studi Kasus Poteran, Sumenep, Jurnal Penataan Ruang.
- Pamungkas, A., Handayani, K.D.M., Widodo, A., Kurniawan, U.F., Humaidah, N., Lestari, W., (2014), Evaluation on Local Government Capacity Building on Climate Change and Its Mitigation, Paper presented on Seminar Nasional Cities 2014: Ecocity: Realistis atau Utopis?, Surabaya - Indonesia.
- Medhiansyah and Pamungkas, A., (2014), Identification factors for vulnerability to tidal flood in the coastal areas of Surabaya, Jurnal Penataan Ruang.
- Utami, V.H., and Pamungkas, A., (2014), Adaptations for vulnerable areas to abrasion in Coastal areas of Tuban Municipality, Jurnal Penataan Ruang.
- Pamungkas, A., Bekessy, S.A., and Lane, R., (2014), Vulnerability Modelling to Improve Assessment Process on Community Vulnerability, Procedia – Social and Behavioral Sciences, 135, 159 – 166.
- Nurrahman F., & Pamungkas A., (2013), Adaptation to Drought: Case Study of Lamongan Municipality, Indonesia. The paper will be presented at The International Seminar on Resilient Cities, Surabaya.
- Pamungkas, A., (2013), Factors for Enhancing Community Resilience to Flood in Centini Village, Paper presented at The 23rd Pasific Conference of The Regional Science Association International, Bandung.
- Pamungkas, A., (2012), Berdamai dengan Banjir Ala Tai Chi Master, www.detik.com (a national online news media). The paper proposes hamonisation with the nature in dealing with Jakarta's flood.

- Pamungkas, A., (2012), Menaklukkan si Komo Penyebab Macet, Alternatif Solusi Jakarta, www.detik.com (a national online news media). The paper proposes solutions for Jakarta's traffic Jam.
- Pamungkas, A., (2012), Stop Preman dengan Cinta Tulus, Bukan Akal Bulus Bernama Petrus, www.detik.com (a national online news media). The paper proposes space management in reducing city crimes.

Lecturers's Assistant :

1. Name : Gusti Aditya R.,ST.
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Academic Experiences :

- Student of College for creating detailed planning document in Kenjeran Coastal Area, Surabaya based on Waterfront City concept.
- Student of College for creating zoning plan coastal areas and small islands based on blue economy concept.
- Assistant to City Planner for coordinating and evaluating of coastal planning documents for 13 East Java's Urban Areas.
- Assistant to City Planner for evaluating of East Java governor's coastal regulation No 6 2010.
- Assistant to City Planner for creating East Java's coastal regulation for using, monitoring, and controlling the coastal areas.
- Assistant to City Planner for coordinating and evaluating of coastal planning documents for 3 East Java's Urban Areas.

2. Name : Ivan Agusta Farizka
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Academic Experiences :

- Student of college for creating detailed planning document task of Pasean Coastal Areas in Madura East Java
- Assistant of Lecturer in Coastal.
- Coastal Zone Management in City of Surabaya
- Development Concept of Ekistic Method on Minapolitan Coastal Housing and Settlement in Lamongan;
- Review of Coastal Zoning and Policy in City of Surabaya
- Farizkha, Nurrahman, Rahmawati. 2014. Dynamic Ekistics; An Adapted Method Developed for Lamongan Coastal Settlements Study. ISBN 978-602-98397-4-6. Third International conference on Sustainable Built Environment. Yogyakarta:Indonesia.