Graduate School Students - LANDSCAPE ECOLOGY COURSE – MK EKOLOGI LANSKAP 2017

LANDSCAPE ECOLOGY COURSE FOR GRADUATE STUDENTS (DOCTOR & MASTER PROGRAM) - MATA KULIAH EKOLOGI LANSKAP BAGI MAHASISWA SEKOLAH PASCASARJANA

EVEN SEMESTER 2016/2017:

ELECTIVE COURSE for MASTER & DOCTOR Students

ARL 621 LANDSCAPE ECOLOGY – 3(3-0): This subject concerns with ecological principles and concepts in the landscape, which is emphasized on landscape structure, landscape function, landscape dynamic and its heterogeneity. It is also concern with landscape conservation-management, and the methodology in landscape ecology as well (Hadi Susilo Arifin, Wahyu Q. Mugnisyah, and Syartinilia Wijaya)

Participants: Welcome for linked students from Study Program of Landscape Architecture (ARL), Natural Resources & Environmental Management (PSL), Integrated Pest Management (PHT), and Forestry/Biodiversity Conservation (KVT)

Class Room: Ruang Seminar Departemen ARsitektur Lanskap – Wing 13/Level VI – Dramaga Campus

Day/Time: Thursday/14.00 – 16.30

Lecturers: Prof. Dr. Hadi Susilo Arifin (HSA); Prof. Dr. Wahju Qamara Mugnisjah (WQM), Dr. Syartinilia Wijaya (SWI)
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<th>Week</th>
<th>TOPIC</th>
<th>Lecturer</th>
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<td>I23 Feb</td>
<td>Introduction: Syllabi &amp; Time Schedule; Landscape and Principles</td>
<td>HSA</td>
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<tr>
<td>II02 Mar</td>
<td>Ecological Concepts in Brief (physical environment, aquatic environment, population, evolutionary, ecological comm, energy and matter in ecosystems)</td>
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<td>III09 Mar</td>
<td>LANDSCAPE STRUCTURE – PATCHES: patch origin and change, patch size/shape/number and configuration</td>
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<td>IV16 Mar</td>
<td>LANDSCAPE STRUCTURE – CORRIDORS: corridors and their origin, structure/line/strip/stream corridors</td>
<td>HSA</td>
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<td>V23 Mar</td>
<td>MATRIX AND NETWORK: Distinguishing a matrix, porosity and boundary shape, network, matrix heterogeneity</td>
<td>HSA</td>
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<td>VI30 Mar</td>
<td>OVERALL STRUCTURE: Micro/macro heterogeneity, configuration of patches, corridors and matrix, contrast in landscape, grain size of the landscape</td>
<td>HSA</td>
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<td>VII06 Ap</td>
<td>LANDSCAPE DYNAMIC: Natural process in landscape development (Geomorphology, establishment of life forms, soil development, natural disturbance) ADDITIONAL MATERIALS as follows: Blue Open Space Management in Jabodetabek (Hadi Susilo Arifin) GIAHS Mapping in Five Regions of Indonesia (Hadi Susilo Arifin)</td>
<td>HSA</td>
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<td>VIII13 Ap</td>
<td>Mid-Test</td>
<td>HSA</td>
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IX20 Ap
LANDSCAPE DYNAMIC: The Human Role in Landscape Development (Modification of Natural Rhythms, Method or Tools Used in Landscape Modification, A landscape Modification Gradients)
WQM
LANDSCAPE DYNAMIC: Flows between adjacent landscape elements (Mechanism underlying linkage, airflow and locomotion, soil flow, interaction between land and stream, hedgerow interaction with adjacent landscape element
XI04
May
LANDSCAPE DYNAMIC: Animal and Plant Movement Across a Landscape (Pattern and movement, Movement of animals, movement of plants, some species movement in Agriculture and pest control)
XII11
May
XIII18
May
LANDSCAPE DYNAMIC: Landscape Change
(Stability, Meta-stability, Pattern of Overall
landscape change, landscape dynamic, linkage
among landscapes)
HETEROGENEITY AND MANAGEMENT:
Heterogeneity and Typology (Landscape heterogeneity, animal response to heterogeneity, guidelines for landscape typology, The inherent hierarchy in nature, Ascending typology)
SWI
XV01
Jun
HETEROGENEITY AND MANAGEMENT:
Landscape Management (Production in landscape, Major landscape type, landscape quality, modelling and landscape management
SWI
Final Test
VIDEO REFERENCES for Students TASK: write down the synopsis of each video based on your major perspective interpretation in landscape ecology field. Each synopsis of video should consisted 75-100 words, please. The comments or synopsis might be written in English or in Bahasa Indonesia.

23 February 2017 Meeting: VIDEO INTERPRETATION

Landscape Approach - Halimun Salak National Park
02 March 2017 Meeting: VIDEO INTERPRETATION

1. Ecocity – http://www.youtube.com/watch?v=qHNlrY__O6l

**VIDEO Hadi Susilo Arifin in Healthy Living Program - Metro TV - Episode 7**

**ECOCITY DEVELOPMENT**

1. Biodiversity – http://www.youtube.com/watch?v=-NhH9amZJ8Y

**VIDEO Hadi Susilo Arifin in Healthy Living Program - Metro TV - Episode 8**

**URBAN BIODIVERSITY CONSERVATION**

1. Greenery Open Spaces – http://www.youtube.com/watch?v=KBmUcVZx75g
VIDEO Hadi Susilo Arifin in Healthy Living Program - Metro TV - Episode 9

GREENERY OPEN SPACE

1. Landscape Ecology - http://www.youtube.com/watch?v=82iGnDMs7ZU

VIDEO Hadi Susilo Arifin in Healthy Living Program - Metro TV - Episode 12 LANDSCAPE ECOLOGY