

International Virtual Course "The Joy of Computing in Design"

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
November 27, 2020 February 11, 2021	Indonesia	Institute Teknologi Bandung	<ul style="list-style-type: none"> Department of Architecture Undergraduate 2nd grade Undergraduate 3rd grade 	(SIT) Students 5, TA 1, Professor 2 (Other Universities) Students 65 Institute Teknologi Bandung Universitas Syah Kuala Universitas Indonesia Universitas Gajah Mada Universitas Pelita Harapan Universitas Islam Indonesia Universitas Udayana Universitas Surakarta Universitas Atma Jaya Yogyakarta Institut Seni Indonesia University Kebangsaan Malaysia Chitkara University India Toyohashi University of Technology	SHINOZAKI Michihiko (Department of Architecture) TANIGUCHI Taizo (Department of Architecture)

This international virtual course was hosted by School of Architecture, Planning, and Policy Development, Institut Teknologi Bandung. The program brought in general introduction of digital design and various computational methods of the design-making process including theoretical and pedagogical aspects of digital design, computational optimization, computational understanding of traditional and heritage values, parametric design, BIM, VR/AR in design & 3-days of workshop of computational design. The course was attended by 14 foreign students from Japan, China, Malaysia, India, Mongolia and Iran, as well as 56 students from ITB and universities in Indonesia.

Lectures:
 Aswin Indraprastha, School of Architecture, Planning and Policy Development, ITB
 Dessi Pudji Lestari, School of Electrical Engineering and Informatics, ITB
 Ibnu Syabri, SAPPK, ITB
 M. Donny Koerniawa, SAPPK, ITB
 Biemo W. Soemardi, Faculty of Civil Engineering and Environment, ITB

International Guest Lectures:
 Stylianos Dritsas, Singapore University of Technology and Design
 Muhammad Makki, University of Technology Sydney
 Christianne M. Herr, Xi'an Jiaotong-Liverpool University
 Andrew Lee, Kyoto Institute of Technology
 Sambit Datta, Curtin University
 Tomohiro Fukuda, Osaka University
 Michihiko Shinozaki, Shibaura Institute of Technology
 Kyle Steinfeld, University of California at Berkeley

Workshop:
 Aswin Indraprastha, SAPPK, ITB
 Alvar Mensana, Universitas Pelita Harapan
 Jacky Thiodore, Universitas Pelita Harapan
 Dani Hermawan, Universitas Pelita Harapan

PROGRAM STUDI ARSITEKTUR
 SAPPK-ITB INTERNATIONAL VIRTUAL COURSE
DIGITAL TECTONICS 2
 the joy of computing in design

Open free for Indonesian and international students.
 Any basic knowledge of parametric modeling using Rhinoceros & Grasshopper is required.

Registration Period: October-November 25th, 2020
 Opening Lecture: November 27, 2020
 Courses: December 2020-February 2021
 Workshop: February 8-10, 2021
 Available for credit transfer (2 CU)
 Detailed information: <https://digitaltectonics.ar.itb.ac.id/>
 Registration: <https://s.id/DigitalTectonics2Registration>

GUEST LECTURERS:
 Christianne M. Herr
 Stylianos Dritsas
 Andrew Lee
 Sambit Datta
 Tomohiro Fukuda
 Michihiko Shinozaki
 Stylianos Dritsas
 Rizal Muslimin
 Mohammed Makki

Day 1

Digital Tectonics 2 - Asynchronous Course
 Rhino & Introduction and The Fundamental of Grasshopper 3D

Day 2

Digital Tectonics 2 - Asynchronous Course
 Rhino & Introduction and The Fundamental of Grasshopper 3D

ARCHITECTURE PROGRAM, SAPPK INTERNATIONAL VIRTUAL COURSE
Week #2 Program

Lectures

FRIDAY, 29/01

MONDAY, 01/02

Workshop
WEDNESDAY-FRIDAY, 03/02-05/02

TUESDAY, 02/02

Dr. Rizal Muslimin
 Senior Lecturer in Architecture, School of Architecture, Design, and Planning, Sydney University

Assoc. Prof. Aswin Indraprastha
 Architectural Design Research Group, School of Architecture, Planning, and Policy Development, Institut Teknologi Bandung

Alvar Mensana, ST, M.Arch.
 Head of Undergraduate Program of Architecture, Universitas Pelita Harapan

Dani Hermawan, ST, M.Arch.
 Founder & Principal Designer, Pelita Universitas Pelita Harapan

Jacky Thiodore, M.Arch.
 Lecturer, Universitas Pelita Harapan

Surrounded by nature

Miwako Iwasawa

People spend the most of time indoor, and sometimes it makes people depressed. Recently, the spread of the coronavirus seems to have increased the demand for a more open lifestyle. Therefore, I propose an outdoor resting place using plant leaves as a motif. Under the leaves is a shaded area where people can lie down and have a chat. It is also possible to lean on the leaves or climb on them.

1 make lines by Rhino
 2 make leaf weave and split surface
 3 make points in each cells
 4 make volumes based on the points
 5 curve the surface following the curve
 6 choose some of cells and gives two different materials

Top view
 Side view

Algorithm