

SYLLABUS_iUP

Graduate Level / Fall Term 2011

Course: Disaster-Resilient Planning, Design & Reconstruction

Instructors: Shun Kanda MIT Architecture/Keio Visiting Professor
Joel Lamere MIT Architecture
with Hiroto Kobayashi Keio Architecture
Yoshihiro Hiraoka Miyagi U. Architecture

Consultants: James Wescoat MIT Architecture/Disaster-Resilient Planning
Duncan Kincaid MIT DUSP Computer Resource Network

PREMISE In the aftermath of the March 11, 2011 triple disaster suffered in Tohoku, Japan, the MIT-Japan Program at the Center for International Studies has established a mechanism to exchange faculty and students between MIT and universities in Tohoku and Japan with the collaborative goal of mobilizing the study and implementation of Disaster-Resilient Planning, Design & Reconstruction initiatives.

In late spring 2011, the MIT Japan 3/11 Initiative Team commenced work in Minamisanriku, Miyagi-ken with its Mayor Jin Sato, community leaders, residents, NGO affiliates, faculty & students of Miyagi and Keio Universities and consulting professionals to map out a plan of action for the near and long-term paths to recovery. At the end of this summer, the team has completed (a) the Utatsu-Minamisanriku Transect/Rapid Visual Site Analysis and (b) Conceptual Design of a Memorial Community Center.

The course this Fall Term is established within the auspices of Keio University and MIT Center for International Studies & Japan Program's Inter-University Program taught in Tokyo/Sendai, Japan.

PROJECT Design/Build innovation & implementation of a prototype transitional Community Center with/for the people of Minamisanriku

SITE: alternate locations at Minamisanriku Temporary Housing sites / 仮設住宅現場

PROGRAM: Building, Furnishings & Landscape Design for transitional occupancy and use including information, resource and multi-purpose center, facilities for relief agency, daycare, kindergarten, eldercare, volunteer rest-stations, a public bathhouse, vendor stalls, an outdoor terrace, garden and arbor – to serve the collective needs of the inhabitants, those amenities typically lacking within each of the housing units and the current temporary (expected 2–5 years duration) social environment.

**DESIGN
PARAMETERS:** digitally-generated architectural component
economy of means & rapid fabrication
manual assembly & incremental construction
wood & local building materials
seismic resiliency

**TEACHING
METHOD & FORMAT:** linked instruction via Tokyo/Sendai/Boston
local community participation
class attendance at Keio U. Mita campus and/or on-site at Minamisanriku

**OUTLINE
SCHEDULE:** September 26, 2011 – January 23/28, 2012
• see *attached schedule for details*

END-PRODUCT: Partial/Substantial Completion of Building
Documentation, Public Presentation & Publication

Eligibility graduate students in design including architecture, engineering, landscape,
Qualification product & community design with CAD and advanced digital design skills are all
Enrollment eligible to attend, English language-proficiency is a requirement

academic enrollment from affiliated members of the MIT Inter-University Program
and others with designated faculty approval

fabrication, assembly & building construction opportunities are open to
community volunteers, professionals and other participants on-site

Certificate of Attendance upon request and approval of the faculty and university, a Certificate of
Attendance issued by the MIT Center for International Studies may be awarded
at the successful completion of this course

Tuition & Fees tuition & fees are required to register for the course; for information on specific
cost, registration & payment, email: Kay Mizuno <almoni@peach.ocn.ne.jp>

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MIT Office of the President, Various Schools & Faculty
MIT Center for International Studies
MIT Japan Program
MIT Department of Architecture
MIT Japan Association
Others

Supporting References URL: <http://mit.edu.japan3-11>

URL: <http://web.mit.edu/cis/>

Appendix Outline Schedule

Proposal: MIT Japan 3/11 Initiative