Modern Japanese Architecture Syllabus (Jan. 28, 2019 ver.)

Learning set

Tokyo Tech's **Modern Japanese Architecture** MOOC on edX was originally designed for participation by architects and architectural students, as well as all those specialized in (or merely intrigued by) the uniqueness of 21st-century Japanese culture.
This **MJA-HKUST** version has been restructured for flipped-classroom use at the 2019 AEARU Summer Institute hosted by the Hong Kong University of Science and Technology (HKUST).
The original **six-week MOOC** was divided into three differently purposed sections yet these parts are intended to form a coherent whole, with special emphasis in Weeks 5 and 6 on the architectural culture of Tokyo Institute of Technology (Tokyo Tech):

1. **Weeks 1-4** trace historical development of Western-style building in Japan, including the impact of tradition centered on **Week 2**.
2. **Week 5** is devoted to Kazuo Shinohara increasingly regarded as one of the most significant architects of the 20th century via his transition from Japanese tradition, to Western modernism, and then toward a further distinctive international culture of "postmodernist" building.
3. The final **Week 6** consists of interviews by our MOOC teaching assistants (TAs) with four Tokyo Tech faculty architects, including one expert in anti-seismic structural retrofit, whose research and buildings have together largely contributed to the creation of the university's new 21st-century campus.

The newly revised online course set forth here comprises:

- **(A)** your two-month competitive preparatory exercise **(Feb.-March)** that consists of **Weeks 1-3** of the original course layout,
- **(B)** a timed **exam** to be taken between March 25-29 to determine what you have learned from the online materials and used in part to select participants to attend the 2019 AEARU Summer Institute, and finally
- **(C)** the actual **Summer Session** itself to be held in **Hong Kong July 15-19**, which will explore **Weeks 4 and 5** of the original MOOC as outlined above.

NOTE:

Weeks 4, 5, and Week 6 content will not be visible to students studying the online materials in Feb. and March 2019.

Performance expectations

The course is designed to offer a context of historical events, although the Instructor is a cultural and not a political historian. This concentrates somewhere midway between what is today assumed (sometimes wrongly) in the West about Japan and what in Japan was long believed true regarding Western architecture.

We don't expect any individual participant to obtain a complete grasp of Japanese building history in all its detail from 1868 to the present. The course goal is to view the buildings— a few of which will be already familiar and others not at all— in the light of past and current events insofar as possible.

The total time commitment to complete this online course is about 10 hours plus 90 min for the online timed exam.

- Upon completing **Week 1** you will understand Japan's sudden and rapid transition from a pre-modern to an early modern society. You will be able to distinguish a building built by a "foreign" architect, or surveyor, from one in the pseudo-Western (*giyōfū*) style mode produced by a Japanese master carpenter. You will also learn about the earliest beginnings of Western-style architectural education in Japan.
- Upon finishing **Week 2** you will have been exposed to five areas in which Japan's building culture is radically different from that of other countries.
- When you've completed **Week 3** you will have learned about the clash between tradition and modernism in the age of Taisho Democracy and the two decades before the onset of World War II.

For summer school students only

- By completing **Week 4** you will learn (at **HKUST**) about the fascination in Japan with the famous Franco-Swiss architect Le Corbusier, the postwar works of Japan's foremost architect of the period, Kenzo Tange, and the reaction on the part of Tange's best known disciple Arata Isozaki.
- In **Week 5**, you will (at **HKUST**) be provided with a thorough introduction to Tokyo Tech's Kazuo Shinohara, who took a radical and separate path in accommodating Japanese tradition to a style he called the Modern NEXT.
- **OPTIONAL**: After watching the filmed interviews by our TAs with their own professors in **Week 6,** you will get to know the latest C21 works situated at Tokyo Tech's main campus. The aim is more fully to understand how actual working architectural professionals in Japan conceive their stated mission to design and improve the built environment.

After completing the **Modern Japanese Architecture** course with its weekly quiz material, it is our hope that the course taker will come away with a more balanced view of the modern and postmodern movements in Japanese architecture. We hope you will be able effectively to situate modern practice and to assign a more nuanced significance to contemporary works of Japanese architecture in the 21st-century.

Related knowledge (Prerequisites)
No special prerequisites are required.
The course experience will be enriched by any prior knowledge of architectural terms and practice. But this is not considered essential— and, even for building professionals, the proximity of your handheld digital device may be useful, since our course covers nearly 150 years of practice.

Learner guidance

We hope, indeed, that the course provides a richly interwoven "knowledge structure"—one that will enable participants to proceed at their own pace with further exploration and research into topics of present-day Japanese building and design practices.

Learner feedback

A Discussion Board with input from the course Instructor is provided and will be monitored weekly. We recommend each of you participate periodically in the **Discussion Board** so that you can learn together.

If you find any typos or errors, please report in the General category using the subject **"Typo & Error"** in the Discussion Board.

Please **DO NOT offer any answers** (not even hints) for **quizzes in the discussion board** or share via social media.

Assessing performance

In characteristic online learning course style, digital quiz material is intended to provide the learner with what is needed to conceptualize verbal and visual course components before moving on to assimilate the succeeding week's lecture content. An examination will be held as part of the online course to determine learning comprehension for selecting participants in the AEARU Summer Institute at HKUST, as stated above.

Course Schedule for 2019 @ HKUST/AEARU International Summer Session: July 15-19, 2019

Honor Code

Students who enroll in this course will be subject to the HKUST Honor Code stated below,

- Honesty and integrity are central to the academic work of HKUST. Students of the University must observe and uphold the highest standards of academic integrity and honesty in all the work they do throughout their program of study.
- As members of the University community, you have the responsibility to help maintain the academic reputation of HKUST in its academic endeavors.
- Sanctions will be imposed if you are found to have violated the regulations governing academic integrity and honesty.

COMP 1029J
Java Programming Bridging Course
1 Credit(s)

Prerequisite(s)
COMP 1021 OR COMP 1022Q OR ISOM 3230

Exclusion(s)
COMP 1022P, COMP 3021, ISOM 3320

Description

This course introduces the Java programming language. It is intended for students who already have some experience in computer programming but wish to learn how to apply those programming skills to the Java language. The course covers basic programming topics such as variables, control statements, loops, functions, and object-oriented programming concepts. Students explore these by self-learning of course materials together with guided programming exercises. Students without the prerequisites but possess relevant programming knowledge may seek instructor's approval for enrolling in the course. Graded P or F.