

**Architectural Design Course (II) for
Graduate Students
The Department of Architecture
College of Architecture & Urban Planning
Tongji University**

**Studio Design Project: A Study of the High Density Development in
Metropolitan Central Areas
Architecture Design and Study for the Block in East
Jinling Road Adjacent To the Bund, Shanghai**

**Supervisor: Dr. Chun Fang DONG Associate Professor
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Note: this course will be cooperated with another studio team of the same program supervised by professor Dr. Bin LI, and will be carried on based on an exchange program with the supervisors and students of Osaka University.

■ **The Targets:**

While the idea of sustainable development is becoming the mainstream opinion for city development today and in the future, architects and scholars are being fascinated by exploring the architecture strategies to urban high density based upon compact city. To those architects and scholars who are engaged in studying and designing architecture in such cities, the urban high density would be a kind of precondition. Meanwhile the urban high density districts always overlap with the historic and heritage urban surroundings, it is urgent and necessary to find out the approaches and strategies to renew and insert new functions into those districts for the purpose of achieving a dynamic integrated urban space with its context. This studio design project takes the typical case as study and practice object to stimulate students to be interested in relevant theories and practices, to train and raise the students' abilities of thinking and analysis, and their professional abilities of applying the knowledge they acquired and comprehensively solving the problems in practice.

- a. To train and raise abilities of comprehensively solving a series of complex problems ranging from single building to cluster, urban space and urban design.
- b. To explore and study the architecture strategy to urban high density, and to search approaches of architectural space usage in urban high density district.
- c. To train and raise the comprehensive abilities of analysis and scheme.
- d. To train and raise the professional skill of architectural design accompanied with landscape elements.

■ **Brief introduction of the site and project:**

The site is located on the corner at the end of East Jinling Road adjacent to the bund, in between of modern buildings along the bund and the previous traditional Chinese town. It faces the Lujiazui CBD across the Huangpu River, and closely near the Linong residential buildings in the south. The district belongs to the historic cultural reservation area in Shanghai. The site is intended to be planned and developed for commercial and public buildings which should be concerned as a whole with its surroundings, the urban space, roads and landscape.

■ **Program:**

A. Study of urban design:

- a. To study the urban texture, figure and background in and around the site. To adjust the function and type of the proposed buildings. To control the height and density, to consider and manage the relationship between the buildings to urban space and street interface.
- b. To study the relevant issues of historic cultural reservation, for instance, the renovation of the facades, and the management of its buildings and surroundings, etc.

B. Conceptual plan and design of architecture:

- a. Land usage is for commerce and public buildings (function and proportion can be defined freely, based on every group's analysis.).
- b. Site area: 7883 square meter.
- c. Gross floor area (above & under ground): 44000sm.
- d. Site Coverage: 70%.
- e. Setbacks: every building can be closely attached to the property line (the specific requirement for the historic cultural reservation area).
- f. Requirements: detailed planning; proposal of buildings in terms of its layout, height, mass and open space; circulation above & under ground.
- g. The historic buildings in the site should be preserved and used reasonably for this project.

■ **The Submission:**

A. Study of urban design:

- a. A brief of the concept of planning and design by sketches and words.
- b. Master plan.
- c. Analysis: master plan structure, form and space, circulations, landscape and view.
- d. Illustrations and a study model.

B. Conceptual plan and design of architecture:

- a. Master plan.
- b. Analysis.

- c. Floor plans, elevations and sections of the building design.
- d. Perspectives.
- e. Illustrations.

Each team should submit several A0 size drawing boards with CAD files (no less than 2 A0 size/each student). Either cooperation or independent can be admitted.

■ **Schedule:**

Period of the course: Sept. 19, 2016-Jan. 18, 2017

Classroom: Room 408 Building c

Week 1 (9/16Fri.) afternoon	1:30	Project Introduction, site visiting and discussion.
Week 2 (9/23 Fri.) afternoon	1:30	Critique: Idea and conception of design.
Week 3(9/30Fri.)	Self-study	National Day
Week 4 (10/7 Fri.) afternoon	1:30	Critique: Improvement of idea and conception of design, overall plan (including case studies).
Week 5 (10/14 Fri.) afternoon	1:30	Critique: Improvement of overall plan, idea and conception of architecture design.
Week 6 (10/21 Fri.) afternoon	1:30	Development of the conception, Architecture design.
Week 7 (10/28 Thu.-11/1Sun.)		Improvement and refinement of architecture design. (carried on with Osaka Univ.)
(10/30Sun.)afternoon	1:30	Intermediate presentation. (carried on with Osaka Univ.)
Week 8 (10/31Mon.-11/2Wed.)		Investigating and visiting architecture with teachers and students from Osaka Univ.
(11/4	Self-study	Feasibility study of technique and material.
Week 9 (11/11Fri.) afternoon	1:30	Critique: Detail study and design for architecture.
Week 10 (11/18 Fri.) afternoon	1:30	Critique: Conceptual design of urban landscape.
Week 11(11/25 Fri.) afternoon	1:30	Critique: Presentation of final formal drafts. summarizing the designing.
Week 12(12/2 Fri.) afternoon	1:30	Critique: Presentation of final formal drafts. summarizing the designing.
Week 13-14(12/2-17)		Formal drawing.
Week 14 (12/19 Mon.) afternoon	4:00	Submission. Address: Rm. 408, Building C.

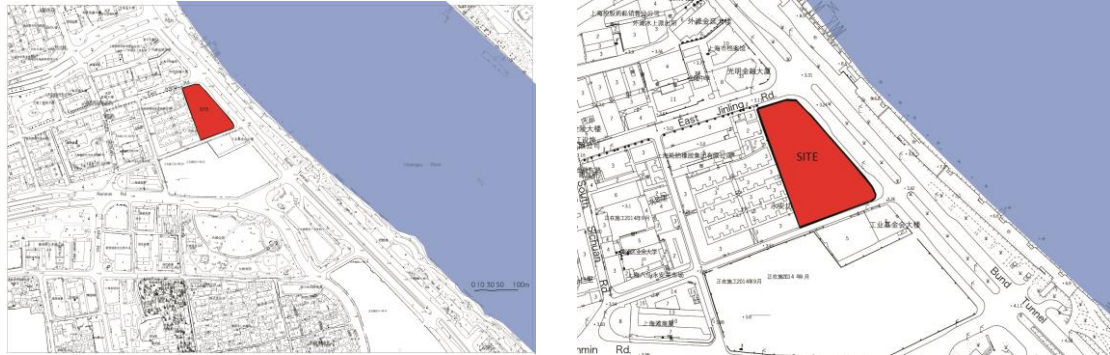
The deadline for the final submission: Dec. 21, 2016.

1/19-30, 2017tentatively
Presentation and critique in Osaka Univ., visit Japan and Osaka Univ.

■ **Appendix:**

Existing site map (CAD file).

Site map



■ Textbooks and Reference Books:

1. Edward Ng. **DESIGNING HIGH-DENSITY CITIES**. Eearthscan in the UK and USA, 2010
2. MVRDV. **MVRDV: KM3: Excursions on Capacities**. Actar, 2005
3. Rem Koolhaas. **Delirious New York**. The Monacelli Press, 1994
4. Winy Mass. **Farmax**. 010 Publishers,2006
5. MVRDV. **Metacity/Datatown**. MVRDV/010 Publishers,1999
6. Chris Abel. **Sky High: Vertical Architecture**. Royal Academy Books, 2003
7. Ian Bentley,Alan Alcock, Paul Murrain, Sue McGlynn,Graham Smith. **Responsive Environments A manual for designers**. London: The Architectural Press,1985
8. HYBRIDS I. **a+t**, 2008, (31)
9. HYBRIDS II. **a+t**, 2008, (32)
10. HYBRIDS. **a+t**, 2010, (33-34)
11. 董春方. **高密度建筑学**. 中国建筑工业出版社, 2012.5
12. [加拿大]简·雅各布斯. **美国大城市的死与生**. 金衡山译. 南京: 译林出版社, 2006
13. 缪朴. **亚太城市的公共空间——当前的问题和对策**. 司玲, 司然译. 北京: 中国建筑工业出版社, 2006
14. Barrie Shelton, Justyna Karakiewicz, Thomas Kvan. **香港造城记——从垂直之城到立体之城(The Making of Hong Kong: From Vertical to Volumetric)**. 胡大平, 吴静 译. 北京: 电子工业出版社, 2013
15. [美]苏珊娜·麦可比. **中心城区开发设计手册**. 杨至德, 李其亮, 李旦 译. 北京: 中国建筑工业出版社, 2008
16. 布罗托. **高密度建筑——未来的建筑设计**. 高明译. 天津: 天津大学出版社, 2009
17. 张为平. **隐形逻辑**. 南京: 东南大学出版社, 2009
18. 王桢栋. **当代城市建筑综合体研究**. 北京: 中国建筑工业出版社, 2010
19. 覃力. **日本高层建筑的发展趋势**. 天津: 天津大学出版社, 2008
20. 刘先觉. **现代建筑理论**. 北京: 中国建筑工业出版社, 2008

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