

## Curriculum for the Qualification to Take *KENCHIKUSHI* License Examinations in the Major in URP at the CPPS

The qualification to take *KENCHIKUSHI* (Japan's qualified and registered architect) License Examinations is given to those who have graduated after completing the courses related to architecture designated by the Minister of Land, Infrastructure, Transport, and Tourism (MLIT). Details are shown in Table 1.

Students in the Major in Urban and Regional Planning of the College of Policy and Planning Sciences can achieve the qualification to take 1ST/2ND-Class and *MOKUZO*(wooden) *KENCHIKUSHI* License Examinations after graduation by acquiring the prescribed number of credits or more in courses corresponding to those listed in Table 2.

However, in order to obtain an *KENCHIKUSHI* license, it is necessary for applicants to have the experience specified by an Ordinance of the MLIT (having worked in architecture for the prescribed period or longer), in addition to passing these examinations. Courses available at other colleges/schools can also be counted to fulfill graduation requirements as related free choice courses. It is advisable for students who wish to achieve the qualification, to take courses according to the curriculum shown in Table 2.

Please pay attention to notifications, as the courses available at the university listed in Table 2 may be revised every year.

Table 1 Requirements for taking Architect Licensure Examinations and for license registration

| Designated subjects   | Exam for 1ST-CLASS <i>KENCHIKUSHI</i> |                          |                          | Exam for 2ND-CLASS/ <i>MOKUZO</i> <i>KENCHIKUSHI</i> |                          |                          |
|---|---------------------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|
|   |                                       |                          |                          |  |                          |                          |
| 1) Architectural Design Drawing   | 7 credits                             |                          |                          | 3 credits  |                          |                          |
| 2) Architectural Planning   | 7 credits                             |                          |                          | 2 credits  |                          |                          |
| 3) Building Environmental Engineering   | 2 credits                             |                          |                          |  |                          |                          |
| 4) MEP Systems  | 2 credits                             |                          |                          | 3 credits  |                          |                          |
| 5) Structural Dynamics  | 4 credits                             |                          |                          |  |                          |                          |
| 6) General Structure of Building  | 3 credits                             |                          |                          |  |                          |                          |
| 7) Building Materials   | 2 credits                             |                          |                          | 1 credit   |                          |                          |
| 8) Building Construction  | 2 credits                             |                          |                          |  |                          |                          |
| 9) Building-related Laws and Regulations                                      | 1 credit                              |                          |                          | 1 credit   |                          |                          |
| Subtotal from 1) to 9) (a)  | 30 credits                            |                          |                          | 10 credits   |                          |                          |
| 10) Compound or Related Subjects (b)  | suitable                              |                          |                          | suitable   |                          |                          |
| (a) + (b)   | 60 credits                            | 50 credits               | 40 credits               | 40 credits   | 30 credits               | 20 credits               |
| Essential experience years in architectonic business to take the exam         | 0 year after graduation               |                          |                          | 0 year after graduation                              |                          |                          |
| Essential experience years in architectonic business for license registration | 2 years after graduation              | 3 years after graduation | 4 years after graduation | 0 year after graduation                              | 1 years after graduation | 2 years after graduation |

Recommended to aim at 60 credits or more.

Necessary to aim at 40 credits at the least.

Table 2 Major in URP's Courses Correspondent to the Designated Subjects

| Categories of the Designated Subjects                     |   | Courses at University of Tsukuba                          | Credits | Offered by                              |
|---|---|---|---------|---|
| 1ST-CLASS   | 2ND-CLASS/<br>MOKUZO  |   |         |   |
| Architectural Design Drawing<br>(7 credits or more)       | Architectural Design Drawing<br>(3 credits or more)   | Fundamental Drawing                                       | 1       | College of Policy and Planning Sciences |
|   |   | Seminar in Living Environment Design                      | 6       | College of Policy and Planning Sciences |
|   |   | Practice for Facility Design                              | 2       | College of Policy and Planning Sciences |
| Architectural Planning<br>(7 credits or more)             | Architectural planning, Building Environmental Engineering or MEP System<br>(2 credits or more) | Design of Urban Space                                     | 2       | College of Policy and Planning Sciences |
|   |   | Planning of Housing and Habitat                           | 2       | College of Policy and Planning Sciences |
|   |   | History of Urban Planning                                 | 2       | College of Policy and Planning Sciences |
|   |   | Architecture Planning                                     | 2       | School of Art and Design                |
|   |   | Architectural Design Theory                               | 2       | School of Art and Design                |
|   |   | Architectural History                                     | 1       | School of Art and Design                |
|   |   | Global History of Architecture                            | 2       | School of Art and Design                |
| Building Environmental Engineering<br>(2 credits or more) |   | Architectural Environmental Engineering                   | 2       | College of Engineering Systems          |
|   |   | Environmental Planning in Architecture                    | 2       | School of Art and Design                |
| MEP Systems<br>(2 credits or more)                        |   | Architectural Equipments                                  | 2       | College of Engineering Systems          |
|   |   | Workshops on Environmental Control System in Architecture | 2       | School of Art and Design                |
| Structural Dynamics<br>(4 credits or more)                | Structural Dynamics, General Structure of Building or Building Materials<br>(3 credits or more) | Introduction to Materials Engineering                     | 1       | College of Engineering Systems          |
|   |   | Materials Engineering I                                   | 1       | College of Engineering Systems          |
|   |   | Advanced Materials Engineering II                         | 2       | College of Engineering Systems          |
|   |   | Structural Mechanics I                                    | 2       | College of Engineering Systems          |
|   |   | Structural Mechanics II                                   | 1       | College of Engineering Systems          |
|   |   | Theory of Vibration                                       | 3       | College of Engineering Systems          |
|   |   | Soil Mechanics  | 2       | College of Engineering Systems          |
|   |   | Geotechnical Engineering                                  | 1       | College of Engineering Systems          |
|   |   | Structural Mechanics in Architecture                      | 2       | School of Art and Design                |
|   |   | Structural Planning in Architecture                       | 2       | School of Art and Design                |
| General Structure of Building<br>(3 credits or more)      |   | Reinforced Concrete Structure                             | 1       | College of Engineering Systems          |
|   |   | Disaster Reduction Engineering                            | 2       | College of Engineering Systems          |
|   |   | Steel Structure   | 1       | College of Engineering Systems          |
|   |   | Building Construction                                     | 2       | School of Art and Design                |
|   |   | Seminars: Building Constructions                          | 1       | School of Art and Design                |
| Building Materials<br>(2 credits or more)                 |   | Concrete Engineering                                      | 2       | College of Engineering Systems          |
|   |   | Introduction to Material Science for Engineers            | 1       | College of Engineering Systems          |
|   |   | Advanced Material Science for Engineers                   | 1       | College of Engineering Systems          |
|   |   | Mechanics of Composite Materials                          | 2       | College of Engineering Systems          |
|   |   | Building Materials  | 2       | School of Art and Design                |

| Categories of the Designated Subjects                       |   | Courses at University of Tsukuba                            | Credits | Offered by                              |
|---|---|---|---------|---|
| 1ST-CLASS   | 2ND-CLASS/<br>MOKUZO  |   |         |   |
| Building Construction<br>(2 credits or more)                | Building Construction<br>(1 credit or more)                 | Independent Study: Building Economy                         | 1       | College of Policy and Planning Sciences |
|   |   | Building Construction                                       | 1       | College of Policy and Planning Sciences |
| Building-related Laws and Regulations<br>(1 credit or more) | Building-related Laws and Regulations<br>(1 credit or more) | Independent Study: Related laws and regulations on building | 1       | College of Policy and Planning Sciences |
| Others<br>(suitable)  | Others<br>(suitable)  | New Wave of Urban Planning                                  | 2       | College of Policy and Planning Sciences |
|   |   | Seminar in Information Systems: Urban and Regional Planning | 3       | College of Policy and Planning Sciences |
|   |   | Principles of Urban Planning                                | 2       | College of Policy and Planning Sciences |
|   |   | Landscape and Environmental Planning                        | 2       | College of Policy and Planning Sciences |
|   |   | Urban Disaster Management                                   | 2       | College of Policy and Planning Sciences |
|   |   | Urban Land Use Planning                                     | 2       | College of Policy and Planning Sciences |
|   |   | Introduction to Urban and Regional Planning                 | 1       | College of Policy and Planning Sciences |
|   |   | Ethics for Engineers  | 1       | College of Engineering Systems          |
|   |   | Landscape Design  | 2       | School of Art and Design                |
|   |   | Introduction to Architectural Design                        | 1       | School of Art and Design                |
|   |   | Introduction to Environmental Design                        | 1       | School of Art and Design                |
|   |   | Introduction to World Heritage Studies                      | 1       | School of Art and Design                |
|   |   | General Lectures on Design History A                        | 1       | School of Art and Design                |
|   |   | General Lectures on Design History B                        | 1       | School of Art and Design                |
|   |   | Design Studies  | 1       | School of Art and Design                |
|   |   | Urban Design  | 2       | School of Art and Design                |
|   |   | Architectural design and society                            | 1       | School of Art and Design                |
|   |   | Community based Social Action                               | 2       | School of Art and Design                |