



A double degree program between the Master's degree program at the Graduate School of Engineering, Kyoto University and Shenzhen International Graduate School, Tsinghua University



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This double degree program enables students to earn two Master's degrees after studying for a total of three years at both Kyoto University in Japan and Tsinghua University in China.







First year							Second year														Third year													
8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
Tsinghua University (First semester)		Spring break (Research)	Kyoto University (First semester)		Summer break (Research)	Kyoto University (Second semester)		Tsinghua University (Second semester)		Research and thesis writing							Thesis examination at Kyoto University		Thesis writing		Thesis examination at Tenri University													

### 3. The curriculum and credit system

#### 1 Master’s Degree Program, Department of Environmental Engineering, Graduate School of Engineering, Kyoto University

##### ① Subjects that can be taken

To complete the Master’s degree program, students are required to earn at least 30 credits in total. The table below shows the subjects available at the Department of Environmental Engineering. Twenty credits must be taken from the list in the table below, of which at least eight credits must be earned in major subjects. At least eight more credits must include Environmental Engineering Seminar A & B that are compulsory as research training (ORT) subjects. Students are allowed to earn up to 10 credits from subjects provided by Tsinghua Shenzhen International Graduate School.

Subjects available in the Master’s degree program, Department of Environmental Engineering, Graduate School of Engineering, Kyoto University

	Subject title	First semester	Second semester	Major	ORT
Core subjects	Environmental Risk	2		○	
	Urban Metabolism Engineering	2		○	
	Systems Approach on Sound Material Cycles Society	2		○	
	Water Quality Control Engineering	2		○	
	Water Sanitary Engineering	2		○	
	Nuclear Environmental Engineering, Adv.	2		○	
	Atmospheric and Global Environmental Engineering, Adv.	2		○	
Developmental and applied subjects	Environmental Engineering Seminar A	4			◎
	Environmental Engineering Seminar B	4			◎
	Environmental Microbiology, Adv.	2		○	
	Environmental Health, Adv.	2		○	
	Environmental-friendly Technology for Sound Material Cycle (*)	1.5		○	
	Geohydro Environment Engineering, Adv.	2		○	
	Lecture on Environmental Risk Management Leader	2			
	New Environmental Engineering I, Adv.	2			
	New Environmental Engineering II, Adv.		2		
	Environmental Organic Micropollutants Analysis Lab.	2			○
	Advanced Environmental Engineering Lab.		2		○

※◎compulsory subject    ※ (\*) every other year    ※Subjects in red are taught in English

##### ② Master’s thesis

Students are required to write a Master’s thesis in Japanese or English using the format prescribed by the Department of Environmental Engineering at Kyoto University’s Graduate school of Engineering. If writing in Japanese, students need to prepare an abstract in English on up to ten sheets of A4-size (210 mm × 297 mm) paper. To complete the Master’s program, students are required to give an oral presentation (public hearing) on their thesis in English and pass the examination.

#### 2 Master’s Degree Program, Institute of Enviroment and Ecology, Shenzhen International Graduate School, Tsinghua University

##### ① Subjects that can be taken

To complete the Master’s degree program, students are required to earn at least 32 credits in total. The table below shows examples of subjects available in Earth Resources and Environment (abbreviation: Environmental Engineering). Thirty-two credits must be taken from the list in the table below, of which five credits must be earned from Public: compulsory subjects, at least 18 credits from Subjective: specialized subjects, at least four credits from Vocational: quality subjects, and five credits from Practice: compulsory subjects including internships. Students are allowed to earn up to 10 credits from subjects provided by Department of Environmental Engineering, Graduate school of Engineering, Kyoto University (Note that similar subjects are excluded).

Examples of subjects available in the Master’s degree program, Institute of Enviroment and Ecology, Shenzhen International Graduate School, Tsinghua University

	Subject title	First semester	Second semester
Public: Compulsory subjects	A Panoramic View of Chinese Culture	2	
	Interpretation of Frontier Issues of China's Economy	1	
	Chinese language	2	
Subjective: Specialized subjects	Principles of Environmental Behavior	2	
	Advanced Environmental Chemistry	2	
	Membrane Science and Technology-	2	
	Sustainable Nanotechnology: Environmental Applications and Implications	3	
	Environmental Monitoring and Analysis	3	
	Air Pollution Control Technology	3	
	Management and Treatment of Solid Waste	3	
	Fundamentals and Application of Environmental Biotechnology	3	
Vocational: Quality subjects	Technology for Wastewater Treatment and Reuse	3	
	Drinking Water Treatment Technology	3	
	Literature Review and Thesis Writing	1	
	Professional Ethics	1	
	Frontiers of Chinese Contemporary Issues Research	1	
	Management of Entrepreneurship	2	
Practice: Compulsory subjects	Professional Development and Presentation	2	
	Internship		3
	Literature Review and Research Proposal		1
	Academic activities		1

※Subjects in red are taught in both English and Chinese    ※Specific subjects and starting dates may vary year by year.

##### ② Master’s thesis

Students are required to write a Master’s thesis in English using the format prescribed by Institute of Enviroment and Ecology, Shenzhen International Graduate School, Tsinghua University. To complete the Master’s program, students are required to give an oral presentation (public hearing) on their thesis in English and pass an examination.



## 4. Application guidelines, application schedule and contact.

### 1 Application guidelines

Please see the following Web page regarding the entrance examinations held by Kyoto University's Graduate School of Engineering.

<https://www.t.kyoto-u.ac.jp/ja/admissions/graduate/exam1>

Applicants must pass the entrance examination for the Department of Environmental Engineering in August or that for the Master's program for international students at the Department of Environmental Engineering in February to be able to enroll in the Department of Environmental Engineering. However, students with Chinese nationality are not eligible.

### 2 Application schedule

Applicants who wish to participate in this program are recruited within one month after enrollment.

### 3 Contact

C Cluster Office, Graduate Student Section, Graduate School of Engineering, Kyoto University

TEL: +81-75-383-2967 E-mail: [090kckyomu@mail2.adm.kyoto-u.ac.jp](mailto:090kckyomu@mail2.adm.kyoto-u.ac.jp)

(Ref.) Website of Kyoto University - Tsinghua University, Cooperative Research and Education Center for Environmental Technology (CRECET)  
<https://crecet.env.kyoto-u.ac.jp/contact/?lang=en>

## 5. Examples of living expenses (as of 2021)

### 1 Example for Shenzhen International Graduate School, Tsinghua University

(The cost of the trip to China will be supported by Kyoto university.)

An example of monthly living expenses (2021), Chinese yuan (renminbi) (Rate: 18.2 Japanese yen/renminbi @ as of February 2022.)

Rent	Dormitory: 1,000 yuan/month/single, 500 yuan/month/twin, deposit: 2,000 yuan, utility expenses: around 100 yuan/month
Food expenses	School cafeteria: 1,500 yuan/month
Transportation expenses	Students do not need a commuter pass because students live in on-campus housing. (Public bus: 2 yuan per trip; subway: 2 - 10 yuan per trip depending on distance traveled)
Cell phone bill	10 GB, 100-min call: 59 yuan/month
Social insurance fees	None. Tsinghua University pays for all medical examinations and medicine fees. However, fees for imported medicines are not covered.
Internet fees	Free Internet at the school
Grant	1,500 yuan/month (from Tsinghua University to international students)

### 2 An example for Graduate School of Engineering, Kyoto University

(International students can stay in Kyoto University's exclusive dormitory for about one year at a low cost. For more information, please visit the following website for more information. <https://kuiso.oc.kyoto-u.ac.jp/cn/housing/facilities/>)

An example of monthly living expenses (2021), Japanese yen

Rent	50,000 yen/month, deposit: 40,000 yen, utility expenses: around 6,000 yen/month
Food expenses	40,000 yen/month
Transportation expenses	From home (near Katsura station on the Hankyu Line) to school: 480 yen/one round trip by bus
Cell phone bill	3 GB basic charge: around 2,000 yen/month plus call charges (22 yen/30 sec. with tax)
Social insurance fees	Prefectural mutual insurance: 1,000 yen/month, health insurance: 1,600 yen/month, and student insurance 1,800 yen/year
Internet fees	Mobile WiFi Router: 5,350 yen/month; free Internet at the school
Daily necessities, miscellaneous expenses	2,000 yen/month
Subsidy	25,000 yen/month (for international students from Kyoto University)

