



## ADMISSION INFORMATION

### Admission requirements

- University graduation with GPA  $\geq$  2.5/4.0 in majors specified in admission announcement.
- English proficiency requirement:  
For official enrollment: Level 3/6 (IELTS 4.5) in Vietnamese reference framework for foreign language or equivalent.

### Entrance exam

- **Open admission**
- **Entrance exam:** documents screening and interview

### Application documents

Visit the VJU website at [www.vju.vnu.edu.vn](http://www.vju.vnu.edu.vn) or [vju.ac.vn](http://vju.ac.vn) for admission guidelines and to download application documents.



*The University of Tokyo is ranked first among the most reputable and prestigious universities in Japan and 36<sup>th</sup> in the world according to the Times Higher Education World University Rankings 2020*



*"The infrastructure engineering program is established based on the transfer of the education program and know-how from the University of Tokyo, one of the highest rankings universities in the world. The contents of the program have been updated with the latest knowledge and most advanced technologies from Japan and the world. It focuses on three fields, in which Japan have a superiority. The first is design, construction of transport infrastructure, such as bridges and highways, with modern technologies. The second is planning, management and maintenance of infrastructure projects toward a sustainable development (more than 40 percent of ODA from Japan to Vietnam has been invested in infrastructure and the urban sector). The third is the utilization of new advanced materials in construction. The program also aims at enhancement of practical skills for students through experience in modern laboratories, as well as through a three-month internship in Japan. With those practices, students will be able to achieve a high level master thesis, which will conform with the objectives of the program."*

**(Prof. Nguyen Dinh Duc, Vietnam National University, Hanoi)**



*"The master's program in infrastructure engineering at Vietnam Japan University has three unique characteristics. First, this program aims to educate students to acquire practical expertise and knowledge to meet the strong demand for talented engineers in the infrastructure market, mainly in Asia, including Vietnam. The international infrastructure market will grow rapidly in the coming decades. It greatly requires skilled individuals who are capable of managing and leading international infrastructure development projects.*

*Second, this program provides multidisciplinary courses through which students can become global leaders who contribute to sustainable development. Infrastructure engineering covers not only physical infrastructure but also social infrastructure and even the humanities. Infrastructure engineers who have such a multidisciplinary perspective are greatly expected to lead the international society.*

*Third, Japanese professors actively collaborate with Vietnamese professors in the program. Japan experienced rapid economic growth after World War II, in which they developed a number of infrastructure projects using high technology, but which also encountered many challenges, such as environmental problems. Knowledge sharing of these experiences from Japan and/or other regions should be valuable for developing world.*

*We use our best efforts to create an environment that stimulates students to fully realize their individual potential. We hope you experience this unique program together and become the world's top infrastructure engineer."*

**(Prof. Hironori Kato, The University of Tokyo)**



## MASTER'S PROGRAM IN INFRASTRUCTURE ENGINEERING

The program is endorsed by:

## CONTACT INFORMATION

**Address:** My Dinh Campus, Luu Huu Phuoc Road,  
Cau Dien Ward, Nam Tu Liem District, Hanoi

**Phone:** (+84) 24 7306 6001 (ext 5093)

**Hotline:** (+84) 966 954 736 or (+84) 969 638 426

**Email:** [admission@vju.ac.vn](mailto:admission@vju.ac.vn)







## EDUCATIONAL OBJECTIVES

The master's program in Infrastructure Engineering is designed to equip students with knowledge and skills related to engineering, design, construction, and operation, and management of infrastructure projects and/or modern transportation systems in the following fields:

- Transportation engineering, bridge technology, underground civil works;
- Materials technology in construction;
- Maintenance of civil engineering;
- Regional/urban and transportation planning in line with sustainable development.

After graduation, students will have the skills needed to become managers, consultants, supervisors or inspectors in the public sector or for domestic/foreign enterprises. They will also be able to become researchers or members of the teaching staff at universities or research institutes.

## ADVANTAGES OF THE PROGRAM

- High quality, based on the curriculum of The University of Tokyo;
- International academic environment with a minimum 50 percent of lecturers from Japan; advanced laboratories and modern facilities; participation in projects with well-known professors;
- Substantially subsidized tuition fees; full scholarships for outstanding students based on performance;
- Cost of three-month internship in Japan fully covered for at least 50 percent of students;
- Modern knowledge and skills in a multicultural context, especially Japanese;
- Competency when applying for jobs at Vietnamese, Japanese enterprises and international organizations upon graduation;
- Opportunity to study PhD degrees at top universities, especially Japanese ones.

## CURRICULUM

The curriculum consists of a total of 64 credits, including core courses of fundamental and professional knowledge, as well as elective courses in each specified field.

COURSES	CREDITS
<b>General knowledge</b>	
Philosophy	3
Japanese Language	6
<b>Fundamental and Specialized courses</b>	
<b>Compulsory courses</b>	<b>18</b>
Basic Sustainability Science	3
Methodology and Informatics for Sustainable Science	3
Advanced Structural Engineering	2
Advanced Geotechnical Engineering	2
Advanced Materials in Civil Engineering	2
Transportation Planning and Policy	2
Urban Planning & Land Use	2
Project Management and Finance	2
<b>Elective courses</b>	<b>18/44</b>
Academic English	4
Advanced Technologies in Civil Engineering	2
Wind Engineering and Structures	2
Foundation Engineering	2
Inspection and Quality Evaluation of Civil Works	2
Advanced Concrete Engineering	2
Computational Methods in Civil Engineering	2
Dynamics, Control and Monitoring of Structures	2
Underground Civil Works in Urban Areas	2
Advanced Coastal Engineering	2
Highway Roadbed and Pavement Construction - Design and Construction	2
Management and Maintenance of Bridges and Highways	2
Advanced Transportation Engineering	2

Environment Fluid Mechanics	2
Principles of Soil Mechanics	2
Natural Disasters and Urban Disaster Management	2
Risk Management in Civil Engineering	2
Information Management in Civil Engineering	2
Advanced Landscape and Civic Design	2
Principle and Method of Performance Evaluation	2
Qualitative Analysis and Empirical Methods	2
<b>Internship</b>	<b>6</b>
<b>Master thesis</b>	<b>13</b>

## TEACHING LANGUAGES

English and Vietnamese

## DURATION AND LOCATION

**Duration:** 24 months of full-time study

**Location:** My Dinh Campus of Vietnam Japan University

## DEGREE AND QUALIFICATION

The degree of Master in Infrastructure Engineering

