

# Research Supervisor and Research Subject

## [Master's Course • Doctoral Course]

### Construction and Environmental Engineering

Supervisor		Research Subject	Main research themes	Master	Doctor	Remarks
Professor	Yoshitaka Suetake	①Structural Analysis of Plates and Shells ②Three-Dimensional Analysis of Thick Plates ③Element-Free Method	Structural Analysis of Plates and Shells by using Element-Free Galerkin Method	A	E	
Professor	Tomoyoshi Nishimura	①Liquefaction of Unsaturated Ground ②Properties of Bentonite ③Soil Water Retention Properties	Hydro-Mechanical Properties of Unsaturated Soils	A	E	
Professor	Yoshihiro Nitta	①Structural health monitoring ②Structural Control ③Automation in Construction	Structural Control	A	E	
Professor	Masatomo Nagao	①Water Environment in Rivers ②Organic Matter Transportation and Circulation ③Flow Visualization for Measurement Technology	Organic Matter Transportation in Watarase River Basin	A		
Professor	Atsushi Yamaguchi	①Wind Power Engineering ②Wind Engineering	Wind measurement by using doppler lidar Prediction and forecasting of wind and wind power Dynamic analysis and load estimation of wind turbine	A		
Professor	Xin Wang	①Regional Earthquake Damage Assessment ②Inspection Techniques for Building Structures ③Application of Building DX (Digital Transformation) and AI	Development of a System for Evaluating Structural Safety Practical Applications of AI Technology in the Fields of Architecture and Civil Engineering	A		
Professor	Miki Watanabe	①Architectural History ②History of Housing ③Architectural Design	Study on Modern Japan's Style Architecture Study on Temple and Town Houses Area in Edo Period	B	F	
Professor	Hiroaki Saito	①Building Physics ②Energy Conservation in Building ③Hygrothermal Analysis in Building Envelope	Thermal and Moisture Performance in Building Envelopes Hygrothermal Behavior and Durability in Wooden Buildings	B	F	
Professor	Keiko Muro	①Environmental Science in Building ②Environmental Psychology and Physiology ③Thermal Comfort	Comfortable and Healthy Thermal Environment Residential Environment for the Elderly	B		
Professor	Hidetaka Fujitani	①Architectural Planning ②City Planning ③Environmental Psychology	Post Occupancy Evaluation of Housing Complex Human Behavior in Urban Space	B		

#### • Master's Course

- A Civil and Structural Engineering
- B Architectural Planning and Environmental Engineering

#### • Doctoral Course

- E Civil and Structural Engineering
- F Architectural Planning and Environmental Engineering