

Subject List (Master's Program of the Department of Civil and Earth Resources Engineering.)								
Subject code	Subject	Instructor	Number of hours per week		Credit	Subject category		
			1st semester	2nd semester		Core	Major	ORT
10F251	Exercise on Project Planning	Related instructors	2	2	2	○ Compulsory		
10U055	Seminar on Infrastructure Engineering A	Related instructors	(4)	(4)	4			○ Compulsory
10U056	Seminar on Infrastructure Engineering B	Related instructors	(4)	(4)	4			○ Compulsory
10U059	Internship on Infrastructure Engineering	Related instructors	Intensive		4			○
10F063	Practice in Infrastructure Engineering	Related instructors		2	2			○
10F003	Continuum Mechanics	Sugiura, Yagi	2		2		○	
10F067	◎Structural Stability	Shirato, Sugiura		2	2		○	
10F068	◎Material and Structural System & Management	Miyagawa, Kawano, Hattori, T.Yamamoto	2		2		○	
10F261	◎Earthquake Engineering/Lifeline Engineering	Kiyono, T. Koike, Igarashi	2		2		○	
10W001	◎Infrastructural Structure Engineering	Related instructors		2	2		○	
10F009	◎Structural Design	Utsunomiya, Takahashi (DPRI), Kubota	2		2		○	
10F010	◎Bridge Engineering	Shirato, Sugiura, Utsunomiya, Yagi		2	2		○	
10A019	Concrete Structural Engineering	Miyagawa, Yamamoto, Murota (Part-time Lecturer)		2	2		○	
10F227	Structural Dynamics	Igarashi, Furukawa	2		2		○	
10F263	Seismic Simulation Exercise	S.Sawada, Takahashi (DPRI)		2	2		○	
10F415	Ecomaterial and Environment-friendly Structures	Kawano, Hattori	2		2		○	
10F089	Infrastructure Safety Engineering	Y. Koyama, Ohshima		2	2		○	
10F075	Hydrodynamics and Turbulence Mechanics	Sanjou	2		2		○	
10A216	◎○Hydrology	Shiiba, Tachikawa	2		2		○	
10F019	River Management	Hosoda, Kishida	2		2		○	
10A040	Sediment Hydraulics	H.Gotoh, E.Harada	2		2		○	
10F464	Hydrologic Design and Management	Shiiba, Tachikawa, S.Kim	2		2		○	
10F245	◎○Open Channel Hydraulics	Hosoda	2		2		○	
10F462	◎□Coastal Wave Dynamics	H.Gotoh, E.Harada, Khayer, Oki (GL Education Unit)	2		2		○	
10F267	□Hydro-meteorological Disaster Prevention	Takara, Nakakita, Kido, Yamashiki (DPRI)	2		2		○	
10A222	□Water Resources Systems	Hori, K.Tanaka (DPRI)	2		2		○	
10F077	□River Basin Management of Flood and Sediment	H.Nakagawa, Sumi, Kawaike, Takebayashi (DPRI)	2		2		○	
10F269	○Coastal and Urban Water Disasters Engineering	Mase, Toda, Yoneyama, Mori (DPRI)	2		2		○	
10F466	○Disaster Mitigation for Sustainable Basin Environment	Fujita, Hiraishi, Takemon, Tsutsumi (DPRI)	2		2		○	
10F011	◎Computational Fluid Dynamics	Shirato, Ushijima		2	2		○	
10F065	◎Hydraulic Engineering for Infrastructure Development and Management	Shiiba, Hosoda, H.Gotoh, Tachikawa, Kishida, E.Harada, Sanjou, S.Kim		2	2		○	
10F100	◎Applied Hydrology	Hori, Sumi, Kido, Takemon, K.Tanaka (DPRI)	2		2		○	
10F103	◎Case Studies Harmonizing Disaster Management and Environment Conservation	Takara, H.Nakagawa, Nakakita, Mase, Mori, Yamashiki (DPRI)	2		2		○	
10F106	◎Integrated Disasters and Resources Management in Watersheds	Fujita, Toda, Hiraishi, Yoneyama, Kawaike, Takebayashi, Tsutsumi, Baba (DPRI)		2	2		○	
10F025	Geomechanics	Oka, Kimoto	2		2		○	
10K016	◎Computational Geotechnics	Oka, Kimoto		2	2		○	
10F057	Seminar on Geotechnics	Oka, Iai (DPRI), Ohtsu, Mimura, Kimoto		2	2		○	
10F237	Management of Geotechnical Infrastructures	Ohtsu, Kishida, Shiotani	2		2		○	
10F241	◎Construction of Geotechnical Infrastructures	Kimura, Kishida		2	2		○	
10F242	◎Geo-Risk Engineering	Ohtsu, Kishida, Shiotani		2	2		○	
10F405	◎Fundamental Geofront Engineering	S.Nishiyama, T. Koyama, K.Ando (Part-time Lecturer)	2		2		○	
10F407	Geofront Environmental Design	S.Nishiyama, T. Koyama, Ijiri (Part-time Lecturer)		2	2		○	
10A055	Environmental Geotechnics	Katsumi, Inui (GSGES)	2		2		○	
10F023	○Numerical Methods in Geomechanics	Oka, Kimoto	2		2		○	

10F109	◎Disaster Prevention through Geotechnics	Iai, Mimura (DPRI)		2	2		○
10X313	◎Governance for Regional and Transportation Planning	K.Kobayashi		2	2		○
10F203	◎Public Finance	K.Kobayashi, Matsushima	2		2		○
10F207	Urban Environmental Policy	D.Nakagawa, Matsunaka	2		2		○
10F213	◎City Logistics	E.Taniguchi, Qureshi	2		2		○
10F219	Quantitative Methods for Behavioral Analysis /Public Psychology for Human Behavior	S.Fujii	2		2		○
10F215	Intelligent Transportation Systems	Uno, T.Yamada		2	2		○
10A806	Advanced Geoinformatics	Tamura, Susaki		2	2		○
10A808	Civic and Landscape Design	Kawasaki, Kubota, Hara (Part-time Lecturer)		2	2		○
10F223	◎Risk Management	Yokomatsu (DPRI)		2	2		○
10X333	◎Disaster Risk Management	Tatano, Yokomatsu (DPRI)	2		2		○
693287	★Disaster Information	Tatano, Yamori, Hatayama (DPRI)	2		2		○
10A845	★Theory & Practice of Environmental Design Research	M.Kobayashi, H.Kobayashi (GSGES)		2	2		○
10A402	Resources Development Systems	T.Matsuoka, Murata	2		2		○
10F053	Applied Mathematics in Civil & Earth Resources Engineering	Tsukada, Saito	2		2		○
10K008	◎ Computational Mechanics and Simulation	H.Gotoh, T. Mastuoka, Murata, Furukawa	2		2		○
10A405	Environmental Geosphere Engineering	K. Koike	2		2		○
10F069	◎■Modeling of Geology	Y.Yamada		2	2		○
10F071	Applied Elasticity for Rock Mechanics	Murata		2	2		○
10F073	Fundamental Theories in Geophysical Exploration	Mikada, T.Gotoh	2		2		○
10F087	Design of Underground Structures	T.Asakura, Ishida		2	2		○
10A420	◎○Lecture on Exploration Geophysics	Mikada, T.Gotoh		2	2		○
10F085	◎Measurement in The Earth's Crust Environment	T.Asakura, Ishida N.Yamamoto	2		2		○
10F039	□Time Series Analysis	Tsukada		2	2		○
10F086	◎□Energy System Management	K. Koike		2	2		○
10F081	Infrastructure Creation Engineering	Related instructors	2		2		○
10X311	◎ Urban Infrastructure Management	Ohtsu and related instructors	2		2		○
10F112	◎Introduction to Sustainability/ Survivability Science	Takara(DPRI) and related instructors		2	2		○
693291	★Emergency Management Systems	H.Hayashi, Maki (DPRI)		2	2		○
10F201	Information Technology for Urban Society	Related instructors	2		2		
10Z001	Urban Transport Policy	D. Nakagawa, Matsunaka, Yoon, Oba, Matsubara and Related instructors	2 Intensive		1		
10Z002	Policy for Low-Carbon Society	E. Taniguchi, D. Nakagawa, Yoon, Matsubara and Related instructors	2 Intensive		1		
10Z003	Urban Transport Management	D. Nakagawa, S. Fujii, Uno, Yoon, Matsubara and Related instructors	2 Intensive		1		
10Z004	○Policy for Low-Carbon Society, Advanced	Related instructors		2 Intensive	1		
10Z005	○Urban Transport Management, Advanced	D. Nakagawa, S. Fujii, Matsunaka, Yoon, Oba, Matsubara and Related instructors		2 Intensive	1		
10Z006	○Capstone Project Practice	E. Taniguchi, D. Nakagawa, Matsunaka, Yoon, Oba, Matsubara and Related instructors		2 Intensive	1		
10Z063	Dialog/ Liveable Cities	Related instructors	2		2		
10Z064	Dialog/ Design of Liveable Cities	Related instructors		2	2		
10Z065	Basic Civil Engineering & Health Science I	Related instructors	2		2		
10Z066	Basic Civil Engineering & Health Science II	Related instructors		2	2		
10Z067	Policy for Liveable Cities	Related instructors	2		2		
10Z068	Methodology for Liveable Cities	Related instructors		2	2		
10Z058	Seminar on Liveable Cities A	Related instructors		2 Intensive	1		
10Z059	Seminar on Liveable Cities B	Related instructors	2 Intensive		1		
10Z069	Disaster and Health Risk Management	Related instructors	2		2		
10Z070	KANSEI urban spaces	Related instructors		2	2		
10Z062	Exercise on Project Planning	Related instructors	2		2		
10F299	Master's Thesis						○ Compulsory

Legend

- ◎English Class
- Biennial (Held this year)
- Biennial (Held next year)
- ◎■Held every year, but English and Japanese alternately every other year
- ◎●Held every year, but Japanese and English alternately every other year
- ※Subject of other Department
- ★Subject of other Graduate School