

Subject List (Advanced Engineering Course Program of the Department of Civil and Earth Resources Engineering.)

Subject code	Subject	Instructor	Number of hours per week		Credit	Subject category			Registration type		
			1st semester	2nd semester		Core	Major	ORT	5 years	Doctor	3 years
10F251	Exercise on Project Planning (自主企画プロジェクト)	Related instructors	2	2	2	○			Compulsory		
10U051	◎ Integrated Seminar on Infrastructure Engineering A (社会基盤工学総合セミナーA)	Related instructors	2		2	○				Compulsory	Compulsory
10U052	◎ Integrated Seminar on Infrastructure Engineering B (社会基盤工学総合セミナーB)	Related instructors		2	2	○				Compulsory	Compulsory
10U055	Seminar on Infrastructure Engineering A (社会基盤工学セミナーA)	Related instructors	(4)	(4)	4			○	Compulsory		
10U056	Seminar on Infrastructure Engineering B (社会基盤工学セミナーB)	Related instructors	(4)	(4)	4			○	Compulsory		
10U059	Internship on Infrastructure Engineering (社会基盤工学インターンシップ)	Related instructors	Intensive		4			○	○	○	○
10F063	Practice in Infrastructure Engineering (社会基盤工学実習)	Related instructors		2	2			○	○		
10U060	ORT on Infrastructure Engineering (社会基盤工学ORT)	Related instructors	(4)	(4)	4			○		○	○
10U064	Practice in Advanced Infrastructure Engineering A 社会基盤工学総合実習A	Related instructors	(2)		1		○			○	○
10U065	Practice in Advanced Infrastructure Engineering B 社会基盤工学総合実習B	Related instructors		(2)	1		○			○	○
10F003	Continuum Mechanics (連続体力学)	Sugiura, Yagi	2		2		○		○	○	○
10F067	◎Structural Stability (構造安定論)	Shirato, Sugiura	2		2		○		○	○	○
10F068	◎Material and Structural System & Management (材料・構造マネジメント論)	Kawano, Hattori, Yamamoto	2		2		○		○	○	○
10F261	◎Earthquake Engineering/Lifeline Engineering (地震・ライフライン工学)	Kiyono, Igarashi	2		2		○		○	○	○
10W001	◎Structural Engineering for Civil Infrastructure (社会基盤構造工学)	Related instructors		2	2		○		○	○	○
10F009	◎Structural Design (構造デザイン)	Takahashi, Matsumura		2	2		○		○	○	○
10F010	◎Bridge Engineering (橋梁工学)	Shirato, Sugiura, Yagi, Matsumura		2	2		○		○	○	○
10A019	Concrete Structural Engineering (コンクリート構造工学)	Takahashi, Yamamoto, Takaya, Mizuno (Part-time Lecturer)		2	2		○		○	○	○
10F227	Structural Dynamics (構造ダイナミクス)	Igarashi, Furukawa	2		2		○		○	○	○
10F263	Seismic Simulation Exercis (サイズミックシミュレーション)	S.Sawada, Takahashi, Hiroyuki Gotoh		2	2		○		○	○	○
10F415	Ecomaterial and Environment-friendly Structures (環境材料設計学)	Kawano, Hattori	2		2		○		○	○	○
10F089	Infrastructure Safety Engineering (社会基盤安全工学)	Sugiyama, Iobe		2	2		○		○	○	○
10F075	Hydrodynamics and Turbulence Mechanics (水理乱流力学)	Toda, Sanjo, Okamoto	2		2		○		○	○	○
10A216	◎□Hydrology (水文学)	Tachikawa, Ichikawa, Yorozu		2	2		○		○	○	○
10F019	River Management (河川マネジメント工学)	Hosoda, Kishida, Onda	2		2		○		○	○	○
10A040	Sediment Hydraulics (流砂水理学)	Hitoshi Gotoh, E.Harada	2		2		○		○	○	○
10F464	Hydrologic Design and Management (水工計画学)	Tachikawa, Ichikawa	2		2		○		○	○	○
10F245	◎□Open Channel Hydraulics (開水路の水理学)	Hosoda, Onda	2		2		○		○	○	○
10F462	◎□Coastal Wave Dynamics (海岸波動論)	Hitoshi Gotoh, Khayyer, E.Harada, Ikari	2		2		○		○	○	○
10F267	○Hydro-meteorological Disaster Prevention (水文気象防災学)	Takara, Nakakita, Sayama, Yamaguchi (DPRI)	2		2		○		○	○	○
10A222	○Water Resources Systems (水資源システム論)	Hori, K.Tanaka (DPRI)	2		2		○		○	○	○
10F077	○River Basin Management of Flood and Sediment (流域治水砂防学)	H.Nakagawa, Sumi, Kawaike, Takebayashi (DPRI)	2		2		○		○	○	○
10F269	□Coastal and Urban Water Disasters Engineering (沿岸・都市防災工学)	Igarashi, Yoneyama, Mori (DPRI)	2		2		○		○	○	○
10F466	□Disaster Mitigation for Sustainable Basin Environment (流域環境防災学)	Fujita, Hiraishi, Takemon, Tsutsumi, Baba (DPRI)	2		2		○		○	○	○
10F011	◎Computational Fluid Dynamics (数値流体力学)	Ushijima, Hitoshi Goto, Khayyer		2	2		○		○	○	○
10F065	◎Hydraulic Engineering for Infrastructure Development and Management (水域社会基盤学)	Hosoda,Toda, Hitoshi Gotoh, Tachikawa, Ichikawa, E.Harada, Sanjou, Khayyer, S.Kim		2	2		○		○	○	○
10F100	◎Applied Hydrology (応用水文学)	Hori, Sumi, S. Tanaka, Takemon, K.Tanaka, Kantoush (DPRI)	2		2		○		○	○	○
10F103	◎Case Studies Harmonizing Disaster Management and Environment Conservation (環境防災生存科学)	Takara, H.Nakagawa, Nakakita, Mori, Sayama, Yamaguchi	2		2		○		○	○	○
10F106	◎Integrated Disasters and Resources Management in Watersheds (流域管理工学)	Fujita, Hiraishi, Yoneyama, Kawaike, Takebayashi, Tsutsumi, Baba (DPRI)		2	2		○		○	○	○

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									Master	Doctor	Doctor
10F025	Geomechanics (地盤力学)	Mimura, Kimoto	2		2		○		○	○	○
10K016	◎Computational Geotechnics (計算地盤工学)	Kimoto, Inui (GSGES)		2	2		○		○	○	○
10F238	◎Geo-Risk Management (ジオリスクマネジメント)	Ohtsu	2		2		○		○	○	○
10F241	Construction of Geotechnical Infrastructures (ジオコンストラクション)	Kimura, Kishida		2	2		○		○	○	○
10F405	◎Fundamental Geofront Engineering (ジオフロント工学原論)	Mimura, Kimura, Higo	2		2		○		○	○	○
10A055	Environmental Geotechnics (環境地盤工学)	Katsumi, Inui (GSGES)	2		2		○		○	○	○
10F109	◎Disaster Prevention through Geotechnics (地盤防災工学)	Uzuoka, Ueda (DPRI)		2	2		○		○	○	○
10F203	◎Public Finance (公共財政論)	K.Kobayashi, Matsushima	2		2		○		○	○	○
10F207	Urban Environmental Policy (都市社会環境論)	Matsunaka	2		2		○		○	○	○
10F219	Quantitative Methods for Behavioral Analysis /Public Psychology for Human Behavior (人間行動学)	S.Fujii	2		2		○		○	○	○
10F215	Intelligent Transportation Systems (交通情報工学)	Uno, T.Yamada, T.Nakamura		2	2		○		○	○	○
10A805	Remote Sensing and Geographic Information System (リモートセンシングと地理情報システム)	Uno, Susaki	2		2		○		○	○	○
10A808	Civic and Landscape Design (景観デザイン論)	Kawasaki, Yamaguchi, Okabe (Part-time Lecturer)		2	2		○		○	○	○
10F223	◎Risk Management (リスクマネジメント論)	Cruz, Yokomatsu (DPRI)		2	2		○		○	○	○
10X333	◎Disaster Risk Management (災害リスク管理論)	Tatano, Yokomatsu, Samaddar (DPRI)	2		2		○		○	○	○
693287	★Disaster Information (防災情報特論)	Yamori, Tatano, Hatayama, Onishi (DPRI)	2		2		○		○	○	○
10A845	★Theory & Practice of Environmental Design Research (環境デザイン論)	H.Kobayashi (GSGES)		2	2		○		○	○	○
10A402	Resources Development Systems (資源開発システム工学)	Murata		2	2		○		○	○	○
10F053	Applied Mathematics in Civil & Earth Resources Engineering (応用数理解析)	Tsukada, Saito	2		2		○		○	○	○
10A405	Environmental Geosphere Engineering (地殻環境工学)	K. Koike, Lin, Kinoshita (Part-time Lecturer)	2		2		○		○	○	○
10F071	Applied Elasticity for Rock Mechanics (応用弾性学)	Murata		2	2		○		○	○	○
10F073	Fundamental Theories in Geophysical Exploration (物理探査の基礎数理)	Mikada, T.Goto	2		2		○		○	○	○
10F087	Underground space and petrophysics (地下空間と地殻物性)	Lin, Ishida, Yasuda, Yokoyama (Part-time Lecturer)		2	2		○		○	○	○
10A420	◎□Lecture on Exploration Geophysics (探査工学特論)	Mikada, T.Goto		2	2		○		○	○	○
10F085	◎Measurement in The Earth's Crust Environment (地殻環境計測)	Ishida, Nara, Yamamoto (Part-time lecturer), Amemiya (Part-time lecturer)	2		2		○		○	○	○
10F088	◎○Energy System Management (地球資源学)	K. Koike		2	2		○		○	○	○
10X311	◎ Urban Infrastructure Management (都市基盤マネジメント論)	Ohtsu and related instructors	2		2		○		○	○	○
10F113	◎Global Survivability Studies (グローバル生存学)	Takara (DPRI), Kiyono, Fujii, Sayama (DPRI), Shimizu (C-)	2		2				○	○	○
693291	◎★Emergency Management Systems (危機管理特論)	Hatayama, Tatano, Cruz, Samaddar (DPRI)	2		2		○		○	○	○
10F201	Information Technology for Urban Society (都市社会情報論)	Related instructors	2		2				○	○	○
10Z001	Urban Transport Policy (都市交通政策フロントランナー講座)	Matsunaka, Oba, Matsubara and related instructors	Intensive		1				○	○	○
10Z002	Policy for Low-Carbon Society (低炭素都市圏政策論)	Matsunaka, Kawasaki, Matsubara and related instructors	Intensive		1				○	○	○
10Z003	Urban Transport Management (都市交通政策マネジメント)	Matsunaka, S. Fujii, Uno, Matsubara and related instructors	Intensive		1				○	○	○
10F380	◎Engineering Seminar for Disaster Resilience in ASEAN countries (強靱な国づくりのためのエンジニアリングセミナー)	Ohtsu and related instructors	Intensive		2				○	○	○
10F382	◎Disaster and Health Risk Management for Liveable Cities (安寧の都市のための災害及び健康リスクマネジメント)	Kiyono and related instructors	Intensive		2				○	○	○
10i049	◎Project Management in Engineering (エンジニアリングプロジェクトマネジメント)	(GL) Takatori, Mizuno, Tanaka, Matumoto, Ashida, Lintuluoto	2		2				○	○	○
10i050	◎Exercise on Project Management in Engineering (エンジニアリングプロジェクトマネジメント演習)	(GL) Takatori, Mizuno, Tanaka, Matumoto, Ashida, Lintuluoto		(2)	1				○	○	○
10F299	Master's Thesis (研究論文(修士))							○	Compulsory		
	Doctor Thesis 研究論文 (博士)							○		Compulsory	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											