

Civil and Environmental Engineering

Master's Course <前期課程>

環境土木工学専攻

Course Categories 科目区分	Course Format 授業形態	授業科目	Course Title	Lecturer 担当教員	Credits 単位数	Civil and Environmental Engineering Graduate Program 環境土木工学プログラム
						Starts 開講時期
C B a s i c C o u r s e s 基 礎 科 目	L e c t u r e 講 義	土木工学のフロンティア	Frontier in Civil Engineering	Faculty members	2	1Spring (Compulsory)
		途上国開発特論Ⅰ	Civil Engineering and Policies for Developing Countries I	HAYASHI Kiichiro, IRYO Miho	2	1Autumn, 2Autumn (offered every other year)
		途上国開発特論Ⅱ	Civil Engineering and Policies for Developing Countries II	Faculty members	2	1Autumn, 2Autumn (offered every other year)
		環境コミュニケーション	English Communication in Environmental Issues	IRYO Miho, CHUN Sohyun	2	1Spring
		持続可能性と環境学	Sustainability and Environmental Studies	ZINCHENKO Anatoly	2	1Autumn
S p e c i a l i z e d c o u r s e s 専 門 科 目	セ ミ ナ ー ゼ ミ ナ ー	構造工学セミナー1A	Seminar on Structural Engineering 1A	KATO Junji, NISHIGUCHI Koji	2	1Autumn
		構造工学セミナー1B	Seminar on Structural Engineering 1B	KATO Junji, NISHIGUCHI Koji	2	1Spring
		構造工学セミナー1C	Seminar on Structural Engineering 1C	KATO Junji, NISHIGUCHI Koji	2	2Autumn
		構造工学セミナー1D	Seminar on Structural Engineering 1D	KATO Junji, NISHIGUCHI Koji	2	2Spring
		材料・形態学セミナー1A	Seminar on Materials and Structural Design 1A	NAKAMURA Hikaru, MIURA Taito	2	1Autumn
		材料・形態学セミナー1B	Seminar on Materials and Structural Design 1B	NAKAMURA Hikaru, MIURA Taito	2	1Spring
		材料・形態学セミナー1C	Seminar on Materials and Structural Design 1C	NAKAMURA Hikaru, MIURA Taito	2	2Autumn
		材料・形態学セミナー1D	Seminar on Materials and Structural Design 1D	NAKAMURA Hikaru, MIURA Taito	2	2Spring
		流域保全学セミナー1A	Seminar on Conservation Engineering of River Basins 1A	TODA Yuji	2	1Autumn
		流域保全学セミナー1B	Seminar on Conservation Engineering of River Basins 1B	TODA Yuji	2	1Spring
		流域保全学セミナー1C	Seminar on Conservation Engineering of River Basins 1C	TODA Yuji	2	2Autumn
		流域保全学セミナー1D	Seminar on Conservation Engineering of River Basins 1D	TODA Yuji	2	2Spring
		海岸・海洋工学セミナー1A	Seminar on Coastal and Maritime Engineering 1A	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	1Autumn
		海岸・海洋工学セミナー1B	Seminar on Coastal and Maritime Engineering 1B	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	1Spring
		海岸・海洋工学セミナー1C	Seminar on Coastal and Maritime Engineering 1C	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	2Autumn
		海岸・海洋工学セミナー1D	Seminar on Coastal and Maritime Engineering 1D	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	2Spring
		地盤材料工学セミナー1A	Seminar on Geomaterial Engineering 1A	NAKANO Masaki, SAKAI Takayuki	2	1Autumn
		地盤材料工学セミナー1B	Seminar on Geomaterial Engineering 1B	NAKANO Masaki, SAKAI Takayuki	2	1Spring
		地盤材料工学セミナー1C	Seminar on Geomaterial Engineering 1C	NAKANO Masaki, SAKAI Takayuki	2	2Autumn
		地盤材料工学セミナー1D	Seminar on Geomaterial Engineering 1D	NAKANO Masaki, SAKAI Takayuki	2	2Spring
		国土防災安全工学セミナー1A	Seminar on Disaster Prevention and Safety Engineering 1A	NODA Toshihiro, NAKAI Kentaro	2	1Autumn
		国土防災安全工学セミナー1B	Seminar on Disaster Prevention and Safety Engineering 1B	NODA Toshihiro, NAKAI Kentaro	2	1Spring
		国土防災安全工学セミナー1C	Seminar on Disaster Prevention and Safety Engineering 1C	NODA Toshihiro, NAKAI Kentaro	2	2Autumn
		国土防災安全工学セミナー1D	Seminar on Disaster Prevention and Safety Engineering 1D	NODA Toshihiro, NAKAI Kentaro	2	2Spring
		社会基盤維持管理学セミナー1A	Seminar on Maintenance of Civil Structures 1A	TATEISHI Kazuo, HANJI Takeshi	2	1Autumn
		社会基盤維持管理学セミナー1B	Seminar on Maintenance of Civil Structures 1B	TATEISHI Kazuo, HANJI Takeshi	2	1Spring
		社会基盤維持管理学セミナー1C	Seminar on Maintenance of Civil Structures 1C	TATEISHI Kazuo, HANJI Takeshi	2	2Autumn
		社会基盤維持管理学セミナー1D	Seminar on Maintenance of Civil Structures 1D	TATEISHI Kazuo, HANJI Takeshi	2	2Spring
		国土デザイン学セミナー1A	Land Design Seminar 1A	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	1Autumn
		国土デザイン学セミナー1B	Land Design Seminar 1B	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	1Spring
		国土デザイン学セミナー1C	Land Design Seminar 1C	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	2Autumn
		国土デザイン学セミナー1D	Land Design Seminar 1D	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	2Spring
		国際環境協力セミナー1A	Global Environmental Cooperation Seminar 1A	HAYASHI Kiichiro	2	1Autumn
		国際環境協力セミナー1B	Global Environmental Cooperation Seminar 1B	HAYASHI Kiichiro	2	1Spring
		国際環境協力セミナー1C	Global Environmental Cooperation Seminar 1C	HAYASHI Kiichiro	2	2Autumn
		国際環境協力セミナー1D	Global Environmental Cooperation Seminar 1D	HAYASHI Kiichiro	2	2Spring
		環境エコロジシステムセミナー1A	Seminar on Environmental Ecology System 1A	YAMAMOTO Toshiyuki	2	1Autumn
		環境エコロジシステムセミナー1B	Seminar on Environmental Ecology System 1B	YAMAMOTO Toshiyuki	2	1Spring
		環境エコロジシステムセミナー1C	Seminar on Environmental Ecology System 1C	YAMAMOTO Toshiyuki	2	2Autumn
		環境エコロジシステムセミナー1D	Seminar on Environmental Ecology System 1D	YAMAMOTO Toshiyuki	2	2Spring

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Specialized courses 専門科目	Lecture 講義	社会基盤施設のライフサイクル設計特論	Advanced Course in Lifecycle Design of Civil Structures	NAKAMURA Hikaru, HANJI Takeshi, NISHIGUCHI Koji	2	1Autumn (Compulsory Elective)
		水圏力学特論	Advanced Fluvial and Coastal Hydrodynamics	TODA Yuji, NAKAMURA Tomoaki	2	1Spring (Compulsory Elective)
		地盤工学特論	Advanced Geotechnical Engineering	NAKAI Kentaro	2	1Autumn (Compulsory Elective)
		社会基盤計画学特論	Advanced Infrastructure Planning	YAMAMOTO Toshiyuki, MIWA Tomio	2	1Autumn (Compulsory Elective)
		サステナブル都市学	Sustainable City Studies	TANIKAWA Hiroki	2	1Spring (Compulsory Elective)
		数値解析特論	Advanced Numerical Analysis	MIWA Tomio, NAKAMURA Tomoaki, NAKAI Kentaro, NISHIGUCHI Koji	2	1Spring (Compulsory Elective)
		鋼構造工学特論	Advanced Steel Structures	TATEISHI Kazuo	2	1Spring
		コンクリート構造工学特論	Advanced Concrete Structures	NAKAMURA Hikaru, MIURA Taito	2	1Spring
		河川・流域圏管理学特論	Advanced Theory of River Basin Management	TODA Yuji	2	1Spring
		地盤材料力学特論	Advanced Mechanics of Geomaterials	NAKANO Masaki, SAKAI Takayuki	2	1Spring
		交通工学特論	Advanced Traffic Engineering and Management	NAKAMURA Hideki	2	1Spring
		都市計画特論	Advanced Urban Planning	KATO Hirokazu	2	1Spring
		環境社会システム工学	Environmental System Analysis and Planning	TANIKAWA Hiroki	2	1Spring
		連続体力学特論	Advanced Continuum Mechanics	NODA Toshihiro	2	1Spring
		構造力学特論	Advanced Structural Mechanics	KATO Junji	2	1Autumn
		海工学特論	Advanced Coastal and Offshore Engineering	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	1Autumn
		地盤動力学特論	Advanced Soil Dynamics	NODA Toshihiro	2	1Autumn
		水・廃棄物工学	Water and Waste Engineering	HIRAYAMA Nagahisa	2	1Spring
		気候変動と社会基盤	Climate Change and Infrastructure	IRYO Miho	2	1Autumn
		環境産業システム論	Environmental Industry Systems	TANIKAWA Hiroki, IRYO Miho	2	1Autumn
	環境都市システム論	Environmental Urban Systems	IRYO Miho	2	1Autumn	
	交通システム分析	Transportation Systems Analysis	YAMAMOTO Toshiyuki, MIWA Tomio	2	1Spring	
	Exercises 演習	インフラ検査・点検演習	Exercise in Inspection of Civil Structures	TATEISHI Kazuo, NAKAMURA Hikaru, HANJI Takeshi, MIURA Taito	1	1Spring
		流れ・地形解析学演習	Advanced Work in Hydro-morphologic Processes	TODA Yuji	1	1Spring
		社会基盤計画学演習	Advanced Work in Planning Methods	MIWA Tomio, ANDO Hiroe, ZHU Yuanfang	1	1Spring
		構造力学特論演習	Advanced Work in Structural Mechanics	KATO Junji, NISHIGUCHI Koji	1	1Autumn
		海工学演習	Advanced Work in Coastal and Offshore Engineering	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	1	1Autumn
		地盤力学総合演習	Advanced Work in Soil Mechanics and Geotechnical Engineering	NAKANO Masaki, NODA Toshihiro, NAKAI Kentaro, TOYODA Tomohiro	1	1Autumn
環境社会システム工学演習		Practice in Environmental Systems Analysis and Planning	TANIKAWA Hiroki, HAYASHI Kiichiro, SHIRAKAWA Hiroaki	1	1Autumn	
グローバル研究インターンシップⅠ		Global Research Internship 1	Faculty members	2	1Autumn to Spring 2Autumn to Spring	
Comprehensive engineering courses 総合工学科目	コミュニケーション学	Introduction to Academic Communication	FURUYA Reiko	1	1Autumn, 2Autumn	
	科学技術英語特論	Advanced Lectures on Scientific English	Part-Time Faculty	1	1Autumn, 2Autumn	
Courses from other departments 他専攻等科目	Of class courses offered by Global 30 International Programs of Graduate School of Engineering Department of other than the majors or of class courses offered by Global 30 International Programs of other graduate schools of the University, Graduate School Common Courses, class courses of graduate schools of other universities under a credit transfer agreement, or the University's undergraduate class courses relating to academic fields that have not been studied by the students, those which are approved by the students' academic advisors and the head of the department 当該専攻以外の工学研究科専攻の国際プログラム群で開講されている授業科目及び本学大学院の他の研究科の国際プログラム群で開講される授業科目、 本学大学院共通科目，単位互換協定による他の大学院の授業科目又は工学研究科入学時において当該学生が未履修の学問分野に関する本学学部の授業科目のうち、 指導教員及び専攻長が認めた科目					
Research supervision 研究指導						
Method of Completion and Research Supervision（履修方法及び研究指導）						
1. The requirements stated in the following items (i) to (iii) must be met and a total of at least 30 credits must be acquired. (以下のi)～iii)の各項を満たし、合計30単位以上) i) Basic Courses/Specialized Courses（基礎科目/専門科目）： a. At least 6 credits from Basic courses（基礎科目6単位以上） b. At least 19 credits from Specialized courses, including 8 credits from seminars, 8 credits from 'Advanced Course in Lifecycle Design of Civil Structures', 'Advanced Fluvial and Coastal Hydrodynamics', 'Advanced Geotechnical Engineering', 'Advanced Infrastructure Planning', 'Sustainable Cities Studies', 'Advanced Numerical Analysis' and 1 credits from experiments and exercises (専門科目の中から，セミナー8単位，「社会基盤施設のライフサイクル設計特論」，「水圏力学特論」，「地盤工学特論」，「社会基盤計画学特論」，「サステナブル都市学」，「数値解析特論」から8単位，演習1単位を含む19単位以上) ii) At least 2 credits from Courses from other departments(他専攻等科目の中から2単位以上) iii) A maximum of 2 credits from Comprehensive engineering courses will be recognized as credits required for completion. (総合工学科目は2単位までを修了要件単位として認める。) 2. Research supervision: students will be subject to instruction by academic advisors under the rules prescribed by the department. (研究指導については，専攻において定めるところにより，指導教員の指示によること)						

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						Starts 開講時期
S p e c i a l i z e d c o u r s e s 専 門 科 目	セ ミ ナ ー	構造工学セミナー2A	Seminar on Structural Engineering 2A	KATO Junji, NISHIGUCHI Koji	2	1Autumn
		構造工学セミナー2B	Seminar on Structural Engineering 2B	KATO Junji, NISHIGUCHI Koji	2	1Spring
		構造工学セミナー2C	Seminar on Structural Engineering 2C	KATO Junji, NISHIGUCHI Koji	2	2Autumn
		構造工学セミナー2D	Seminar on Structural Engineering 2D	KATO Junji, NISHIGUCHI Koji	2	2Spring
		構造工学セミナー2E	Seminar on Structural Engineering 2E	KATO Junji, NISHIGUCHI Koji	2	3Autumn
		材料・形態学セミナー2A	Seminar on Materials and Structural Design 2A	NAKAMURA Hikaru, MIURA Taito	2	1Autumn
		材料・形態学セミナー2B	Seminar on Materials and Structural Design 2B	NAKAMURA Hikaru, MIURA Taito	2	1Spring
		材料・形態学セミナー2C	Seminar on Materials and Structural Design 2C	NAKAMURA Hikaru, MIURA Taito	2	2Autumn
		材料・形態学セミナー2D	Seminar on Materials and Structural Design 2D	NAKAMURA Hikaru, MIURA Taito	2	2Spring
		材料・形態学セミナー2E	Seminar on Materials and Structural Design 2E	NAKAMURA Hikaru, MIURA Taito	2	3Autumn
		流域保全学セミナー2A	Seminar on Conservation Engineering of River Basins 2A	TODA Yuji	2	1Autumn
		流域保全学セミナー2B	Seminar on Conservation Engineering of River Basins 2B	TODA Yuji	2	1Spring
		流域保全学セミナー2C	Seminar on Conservation Engineering of River Basins 2C	TODA Yuji	2	2Autumn
		流域保全学セミナー2D	Seminar on Conservation Engineering of River Basins 2D	TODA Yuji	2	2Spring
		流域保全学セミナー2E	Seminar on Conservation Engineering of River Basins 2E	TODA Yuji	2	3Autumn
		海岸・海洋工学セミナー2A	Seminar on Coastal and Maritime Engineering 2A	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	1Autumn
		海岸・海洋工学セミナー2B	Seminar on Coastal and Maritime Engineering 2B	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	1Spring
		海岸・海洋工学セミナー2C	Seminar on Coastal and Maritime Engineering 2C	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	2Autumn
		海岸・海洋工学セミナー2D	Seminar on Coastal and Maritime Engineering 2D	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	2Spring
		海岸・海洋工学セミナー2E	Seminar on Coastal and Maritime Engineering 2E	MIZUTANI Norimi, NAKAMURA Tomoaki, CHO Yonghwan	2	3Autumn
		地盤材料工学セミナー2A	Seminar on Geomaterial Engineering2A	NAKANO Masaki, SAKAI Takayuki	2	1Autumn
		地盤材料工学セミナー2B	Seminar on Geomaterial Engineering2B	NAKANO Masaki, SAKAI Takayuki	2	1Spring
		地盤材料工学セミナー2C	Seminar on Geomaterial Engineering2C	NAKANO Masaki, SAKAI Takayuki	2	2Autumn
		地盤材料工学セミナー2D	Seminar on Geomaterial Engineering2D	NAKANO Masaki, SAKAI Takayuki	2	2Spring
		地盤材料工学セミナー2E	Seminar on Geomaterial Engineering2E	NAKANO Masaki, SAKAI Takayuki	2	3Autumn
		国土防災安全工学セミナー2A	Seminar on Disaster Prevention Geotechnical Engineering 2A	NODA Toshihiro, NAKAI Kentaro	2	1Autumn
		国土防災安全工学セミナー2B	Seminar on Disaster Prevention Geotechnical Engineering 2B	NODA Toshihiro, NAKAI Kentaro	2	1Spring
		国土防災安全工学セミナー2C	Seminar on Disaster Prevention Geotechnical Engineering 2C	NODA Toshihiro, NAKAI Kentaro	2	2Autumn
		国土防災安全工学セミナー2D	Seminar on Disaster Prevention Geotechnical Engineering 2D	NODA Toshihiro, NAKAI Kentaro	2	2Spring
		国土防災安全工学セミナー2E	Seminar on Disaster Prevention Geotechnical Engineering 2E	NODA Toshihiro, NAKAI Kentaro	2	3Autumn
		社会基盤維持管理学セミナー2A	Seminar on Maintenance of Civil Structures 2A	TATEISHI Kazuo, HANJI Takeshi	2	1Autumn
		社会基盤維持管理学セミナー2B	Seminar on Maintenance of Civil Structures 2B	TATEISHI Kazuo, HANJI Takeshi	2	1Spring
		社会基盤維持管理学セミナー2C	Seminar on Maintenance of Civil Structures 2C	TATEISHI Kazuo, HANJI Takeshi	2	2Autumn
		社会基盤維持管理学セミナー2D	Seminar on Maintenance of Civil Structures 2D	TATEISHI Kazuo, HANJI Takeshi	2	2Spring
		社会基盤維持管理学セミナー2E	Seminar on Maintenance of Civil Structures 2E	TATEISHI Kazuo, HANJI Takeshi	2	3Autumn
		国土デザイン学セミナー2A	Land Design Seminar 2A	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	1Autumn
		国土デザイン学セミナー2B	Land Design Seminar 2B	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	1Spring
		国土デザイン学セミナー2C	Land Design Seminar 2C	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	2Autumn
		国土デザイン学セミナー2D	Land Design Seminar 2D	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	2Spring
		国土デザイン学セミナー2E	Land Design Seminar 2E	TOMITA Takashi, NAKAMURA Shinichiro, TASHIRO Mutsumi	2	3Autumn

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S p e c i a l i z e d 専 門 科 目 c o u r s e s	S e m i n a r セ ミ ナ ー	国際環境協力セミナー2A	Global Environmental Cooperation Seminar2A	HAYASHI Kiichiro	2	1Autumn
		国際環境協力セミナー2B	Global Environmental Cooperation Seminar2B	HAYASHI Kiichiro	2	1Spring
		国際環境協力セミナー2C	Global Environmental Cooperation Seminar2C	HAYASHI Kiichiro	2	2Autumn
		国際環境協力セミナー2D	Global Environmental Cooperation Seminar2D	HAYASHI Kiichiro	2	2Spring
		国際環境協力セミナー2E	Global Environmental Cooperation Seminar2E	HAYASHI Kiichiro	2	3Autumn
		環境エコロジーシステムセミナー2A	Seminar on Environmental Ecology System2A	YAMAMOTO Toshiyuki	2	1Autumn
		環境エコロジーシステムセミナー2B	Seminar on Environmental Ecology System2B	YAMAMOTO Toshiyuki	2	1Spring
		環境エコロジーシステムセミナー2C	Seminar on Environmental Ecology System2C	YAMAMOTO Toshiyuki	2	2Autumn
		環境エコロジーシステムセミナー2D	Seminar on Environmental Ecology Systems2D	YAMAMOTO Toshiyuki	2	2Spring
		環境エコロジーシステムセミナー2E	Seminar on Environmental Ecology System2E	YAMAMOTO Toshiyuki	2	3Autumn
		グローバル人材育成セミナー	GLOCAL Leaders Seminar	Faculty members	2	2Autumn
		地球環境セミナー I	Global Environmental Seminar I	Faculty members	2	1Spring to 2Autumn
		地球環境セミナー II	Global Environmental Seminar II	Faculty members	2	2Spring to 3Autumn
	Exercises 演習	グローバル研究インターンシップ2	Global Research Internship 2	Faculty members	2	1Autumn to Spring 2Autumn to Spring 3Autumn to Spring
Courses from other departments 他専攻等科目	Of class courses offered by Global 30 International Programs of Graduate School of Engineering Department of other than the majors or of class courses offered by Global 30 International Programs of other graduate schools of the University, Graduate School Common Courses, class courses of graduate schools of other universities under a credit transfer agreement, or the University's undergraduate class courses relating to academic fields that have not been studied by the students, those which are approved by the students' academic advisors and the head of the department 当該専攻以外の工学研究科専攻の国際プログラム群で開講されている授業科目及び本学大学院の他の研究科の国際プログラム群で開講される授業科目、本学大学院共通科目、単位互換協定による他の大学院の授業科目又は工学研究科入学時において当該学生が未履修の学問分野に関する本学学部の授業科目のうち、指導教員及び専攻長が認めた科目					
Research supervision 研究指導						
Method of Completion and Research Supervision (履修方法及び研究指導)						
1. A total of at least 8 credits must be acquired excluding the class courses of Master's Course that have been studied by the students. At least 4 credits from Seminar of Specialized courses above (上記の授業科目及び前期課程の授業科目(既修のものを除く)の中から8単位以上 ただし、上記に掲げた専門科目のセミナー科目から4単位以上)						
2. Research supervision: students will be subject to instruction by academic advisors under the rules prescribed by the department. (研究指導については、専攻において定めるところにより、指導教員の指示によること)						