

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 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	Kiichiro HAYASHI, Miho IRYO	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	Miho IRYO	2	1Spring		
		持続可能性と環境学	Sustainability and Environmental Studies	Hiroki TANIKAWA, Takayuki MORIKAWA	2	1Autumn		
S p e c i a l i z e d c o u r s e s 専 門 科 目	S e m i n a r セ ミ ナ ー	構造工学セミナー1A	Seminar on Structural Engineering 1A	Junji KATO	2	1Autumn		
		構造工学セミナー1B	Seminar on Structural Engineering 1B	Junji KATO	2	1Spring		
		構造工学セミナー1C	Seminar on Structural Engineering 1C	Junji KATO	2	2Autumn		
		構造工学セミナー1D	Seminar on Structural Engineering 1D	Junji KATO	2	2Spring		
		材料・形態学セミナー1A	Seminar on Materials and Structural Design 1A	Hikaru NAKAMURA	2	1Autumn		
		材料・形態学セミナー1B	Seminar on Materials and Structural Design 1B	Hikaru NAKAMURA	2	1Spring		
		材料・形態学セミナー1C	Seminar on Materials and Structural Design 1C	Hikaru NAKAMURA	2	2Autumn		
		材料・形態学セミナー1D	Seminar on Materials and Structural Design 1D	Hikaru NAKAMURA	2	2Spring		
		流域保全学セミナー1A	Seminar on Conservation Engineering of River Basins 1A	Yuji TODA, Ryota TSUBAKI	2	1Autumn		
		流域保全学セミナー1B	Seminar on Conservation Engineering of River Basins 1B	Yuji TODA, Ryota TSUBAKI	2	1Spring		
		流域保全学セミナー1C	Seminar on Conservation Engineering of River Basins 1C	Yuji TODA, Ryota TSUBAKI	2	2Autumn		
		流域保全学セミナー1D	Seminar on Conservation Engineering of River Basins 1D	Yuji TODA, Ryota TSUBAKI	2	2Spring		
		海岸・海洋工学セミナー1A	Seminar on Coastal and Maritime Engineering 1A	Norimi MIZUTANI, Tomoaki NAKAMURA	2	1Autumn		
		海岸・海洋工学セミナー1B	Seminar on Coastal and Maritime Engineering 1B	Norimi MIZUTANI, Tomoaki NAKAMURA	2	1Spring		
		海岸・海洋工学セミナー1C	Seminar on Coastal and Maritime Engineering 1C	Norimi MIZUTANI, Tomoaki NAKAMURA	2	2Autumn		
		海岸・海洋工学セミナー1D	Seminar on Coastal and Maritime Engineering 1D	Norimi MIZUTANI, Tomoaki NAKAMURA	2	2Spring		
		地盤材料工学セミナー1A	Seminar on Geomaterial Engineering1A	Masaki NAKANO	2	1Autumn		
		地盤材料工学セミナー1B	Seminar on Geomaterial Engineering1B	Masaki NAKANO	2	1Spring		
		地盤材料工学セミナー1C	Seminar on Geomaterial Engineering1C	Masaki NAKANO	2	2Autumn		
		地盤材料工学セミナー1D	Seminar on Geomaterial Engineering1D	Masaki NAKANO	2	2Spring		
		国土防災安全工学セミナー1A	Seminar on Disaster Prevention and Safety Engineering 1A	Toshihiro NODA, Kentaro NAKAI	2	1Autumn		
		国土防災安全工学セミナー1B	Seminar on Disaster Prevention and Safety Engineering 1B	Toshihiro NODA, Kentaro NAKAI	2	1Spring		
		国土防災安全工学セミナー1C	Seminar on Disaster Prevention and Safety Engineering 1C	Toshihiro NODA, Kentaro NAKAI	2	2Autumn		
		国土防災安全工学セミナー1D	Seminar on Disaster Prevention and Safety Engineering 1D	Toshihiro NODA, Kentaro NAKAI	2	2Spring		
		社会基盤維持管理工学セミナー1A	Seminar on Maintenance of Civil Structures 1A	Kazuo TATEISHI, Takeshi HANJI	2	1Autumn		
		社会基盤維持管理工学セミナー1B	Seminar on Maintenance of Civil Structures 1B	Kazuo TATEISHI, Takeshi HANJI	2	1Spring		
		社会基盤維持管理工学セミナー1C	Seminar on Maintenance of Civil Structures 1C	Kazuo TATEISHI, Takeshi HANJI	2	2Autumn		
		社会基盤維持管理工学セミナー1D	Seminar on Maintenance of Civil Structures 1D	Kazuo TATEISHI, Takeshi HANJI	2	2Spring		
		国土デザイン学セミナー1A	Land Design Seminar 1A	Shinichiro NAKAMURA	2	1Autumn		
		国土デザイン学セミナー1B	Land Design Seminar 1B	Shinichiro NAKAMURA	2	1Spring		
		国土デザイン学セミナー1C	Land Design Seminar 1C	Shinichiro NAKAMURA	2	2Autumn		
		国土デザイン学セミナー1D	Land Design Seminar 1D	Shinichiro NAKAMURA	2	2Spring		
		地圏環境保全学セミナー1A	Seminar on Conservation of Geoenvironment 1A	Arata KATAYAMA	2	1Autumn		
		地圏環境保全学セミナー1B	Seminar on Conservation of Geoenvironment 1B	Arata KATAYAMA	2	1Spring		
		地圏環境保全学セミナー1C	Seminar on Conservation of Geoenvironment 1C	Arata KATAYAMA	2	2Autumn		
		地圏環境保全学セミナー1D	Seminar on Conservation of Geoenvironment 1D	Arata KATAYAMA	2	2Spring		
		国際環境協力セミナー1A	Global Environmental Cooperation Seminar1A	Kiichiro HAYASHI	2	1Autumn		
		国際環境協力セミナー1B	Global Environmental Cooperation Seminar1B	Kiichiro HAYASHI	2	1Spring		
		国際環境協力セミナー1C	Global Environmental Cooperation Seminar1C	Kiichiro HAYASHI	2	2Autumn		
		国際環境協力セミナー1D	Global Environmental Cooperation Seminar1D	Kiichiro HAYASHI	2	2Spring		
		環境エコロジーシステムセミナー1A	Seminar on Environmental Ecology System1A	Toshiyuki YAMAMOTO, Tomio MIWA	2	1Autumn		
		環境エコロジーシステムセミナー1B	Seminar on Environmental Ecology System1B	Toshiyuki YAMAMOTO, Tomio MIWA	2	1Spring		
		環境エコロジーシステムセミナー1C	Seminar on Environmental Ecology System1C	Toshiyuki YAMAMOTO, Tomio MIWA	2	2Autumn		
		環境エコロジーシステムセミナー1D	Seminar on Environmental Ecology System1D	Toshiyuki YAMAMOTO, Tomio MIWA	2	2Spring		
		L e c t u r e 講 義	L e c t u r e 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	Hikaru NAKAMURA, Junji KATO, Takeshi HANJI	2	1Autumn (Compulsory Elective)
				水圏力学特論	Advanced Fluvial and Coastal Hydrodynamics	Tomoaki NAKAMURA, Ryota TSUBAKI	2	1Spring (Compulsory Elective)
				地盤工学特論	Advanced Geotechnical Engineering	Toshihiro NODA, Kentaro NAKAI	2	1Autumn (Compulsory Elective)

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Specialized Courses 専門科目	Lecture 講義	社会基盤計画学特論	Advanced Infrastructure Planning	Takayuki MORIKAWA, Toshiyuki YAMAMOTO	2	1Autumn (Compulsory Elective)
		低炭素都市学	Low Carbon Cities Studies	Hiroki TANIKAWA	2	1Spring (Compulsory Elective)
		数値解析特論	Advanced Numerical Analysis	Hikaru NAKAMURA, Tomio MIWA, Tomoaki NAKAMURA, Kentaro NAKAI	2	1Spring (Compulsory Elective)
		鋼構造工学特論	Advanced Steel Structures	Kazuo TATEISHI	2	1Spring
		コンクリート構造工学特論	Advanced Concrete Structures	Hikaru NAKAMURA	2	1Spring
		河川・流域圏管理工学特論	Advanced Theory of River Basin Management	Yuji TODA	2	1Spring
		地盤材料力学特論	Advanced Mechanics of Geomaterials	Masaki NAKANO	2	1Spring
		交通工学特論	Advanced Traffic Engineering and Management	Hideki NAKAMURA	2	1Spring
		都市計画特論	Advanced Urban Planning	Hirokazu KATO	2	1Spring
		土水環境保全学特論	Conservation and Ecotoxicology of Soil and Water	Arata KATAYAMA	2	1Spring
		環境社会システム工学	Environmental System Analysis and Planning	Hiroki TANIKAWA	2	1Spring
		連続体力学特論	Advanced Continuum Mechanics	Toshihiro NODA, Masaki NAKANO	2	1Spring
		構造力学特論	Advanced Structural Mechanics	Junji KATO	2	1Autumn
		海工学特論	Advanced Coastal and Offshore Engineering	Norimi MIZUTANI, Tomoaki NAKAMURA	2	1Autumn
		地盤動力学特論	Advanced Soil Dynamics	Toshihiro NODA, Kentaro NAKAI	2	1Autumn
		水・廃棄物工学	Water and Waste Engineering	Nagahisa HIRAYAMA	2	1Autumn
		気候変動と社会基盤	Climate Change and Infrastructure	Miho IRYO	2	1Autumn 2Autumn
		環境産業システム論	Environmental Industry Systems	Hiroki TANIKAWA, Miho IRYO	2	1Autumn
		交通システム分析	Transportation Systems Analysis	Takayuki MORIKAWA, Toshiyuki YAMAMOTO, Tomio MIWA	2	1Spring 2Spring
		環境都市システム論	Environmental Urban Systems	Miho IRYO	2	1Autumn
	Exercises 演習	インフラ検査・点検演習	Exercise in Inspection of Civil Structures	Kazuo TATEISHI, Hikaru NAKAMURA, Takeshi HANJIL, Yoshihito YAMAMOTO	1	1Spring
		流れ・地形解析学演習	Advanced Work in Hydro-morphologic Processes	Ryota TSUBAKI	1	1Spring
		社会基盤計画学演習	Advanced Work in Planning Methods	Tomio MIWA	1	1Spring
		構造力学特論演習	Advanced Work in Structural Mechanics	Junji KATO	1	1Autumn
		海工学演習	Advanced Work in Coastal and Offshore Engineering	Norimi MIZUTANI, Tomoaki NAKAMURA	1	1Autumn
		地盤力学総合演習	Advanced Work in Soil Mechanics and Geotechnical Engineering	Masaki NAKANO, Toshihiro NODA, Kentaro NAKAI	1	1Autumn
		土水環境保全学演習	Exercise on Conservation and Ecotoxicology of Soil and Water	Arata KATAYAMA	1	1Autumn
		環境社会システム工学演習	Practice in Environmental Systems Analysis and Planning	Hiroki TANIKAWA, Kiichiro HAYASHI	1	1Autumn
Comprehensive engineering courses 総合工学科目	コミュニケーション学	Introduction to Academic Communication	Reiko FURUYA	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)						
<p>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)</p> <p>i) Basic Courses/Specialized Courses (基礎科目/専門科目) :</p> <p style="margin-left: 20px;">a. At least 6 credits from Basic courses (基礎科目6単位以上)</p> <p style="margin-left: 20px;">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', 'Low Carbon 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」、「低炭素都市学」、「数値解析特論」から8単位、実験・演習1単位を含む19単位以上)</p> <p style="margin-left: 20px;">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)</p> <p style="margin-left: 20px;">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。)</p> <p>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)</p>						