

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 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 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, Yoshihito YAMAMOTO | 2 | 1Autumn | | |
| | | 材料・形態学セミナー1B | Seminar on Materials and Structural Design 1B | Hikaru NAKAMURA, Yoshihito YAMAMOTO | 2 | 1Spring | | |
| | | 材料・形態学セミナー1C | Seminar on Materials and Structural Design 1C | Hikaru NAKAMURA, Yoshihito YAMAMOTO | 2 | 2Autumn | | |
| | | 材料・形態学セミナー1D | Seminar on Materials and Structural Design 1D | Hikaru NAKAMURA, Yoshihito YAMAMOTO | 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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|---|--|---|--|---|---|--|---|---------|
| 専門科目 Specialized Courses | Lecture | 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 | Tomio MIWA, Tomoaki NAKAMURA, Kentaro NAKAI, Yoshihito YAMAMOTO | 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, Yoshihito YAMAMOTO | 2 | 1Spring | | |
| | | 河川・流域圏管理学特論 | 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 | Masaki NAKANO, Toshihiro NODA | 2 | 1Spring | | |
| | | 水・廃棄物政策論 | Water and Waste Management Policies | Victor Muhandiki | 2 | 1, 2 Autumn/Spring | | |
| | | 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 | | |
| | | 気候変動政策論 | Climate Change Policies | Miho IRYO | 2 | 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 | | |
| | | Exercises 演習 | Exercises 演習 | インフラ検査・点検演習 | Exercise in Inspection of Civil Structures | Kazuo TATEISHI, Hikaru NAKAMURA, Takeshi HANAI, 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 | | |
| グローバル研究インターンシップ1 | Global Research Internship 1 | | | Faculty members | 2 | 1Autumn to Spring 2Autumn to Spring | | |
| Comprehensive engineering courses 総合工学科目 | 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 | 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. (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> | | | | | | | | |