

| (理工情報生命学術院 システム情報工学研究群 博士後期課程/一貫制博士課程) Degree Programs in Systems and Information Engineering, Graduate School of Science and Technology (Doctoral Programs) | | | | | | 汎用コンピテンス Generic Competence | | | | | 専門コンピテンス Specific Competences | | | 合計 Total | | | | | | | | | | | |
|---|--|---|---|-------------------------------------|--|--------------------------------|------------------------|------------------------------|---|-------------------------------------|----------------------------------|---------------------------------|--------------------------|-------------|------------------------------------|---------------------|--------------------------|-----------------|----|----|----|-----|-----|-----|-----|
| 科目 区分 Course Category | 科目番号 Course Number | 授業科目の名称 Course Name | 標準履修 年次 Standard registrat ion year | 単位数 Credits | | | 授業形態 Course Methods | | | 1 | 2 | 3 | 4 | | 5 | 1 | 2 | 3 | | | | | | | |
| | | | | 必修 Required | 選択 Core Electi ves | 自由 Free Electi ves | 講義 Lecture s | 演習 Class Exercis es | 実験実 習 Practic al trainin g | 知の 創成力 | マネジメン ト能力 | コミュニ ケーション 能力 | リーダー シップ力 | | 国際性 | 研究力 | 専門知識 | 倫理観 | | | | | | | |
| | | | | | | | | | | Knowledge creation competence | Management competence | Communicat ion competence | Leadership competence | | Internatio nality competence | Research ability | Specialized knowledge | Ethical view | | | | | | | |
| 研究群共通科目群 Degree Programs' Common Courses | 専門基礎科目 Foundation Subjects for Major | 共通 Common | OBL0000 | MDA異分野融合ゼミナール | MDA Interdisciplinary Integrated Seminar | 1・2・3 | | 2 | | ○ | | | | 20 | 20 | 30 | | | 30 | 90 | 10 | 200 | | | |
| | | | OBL0001 | MDA後期プロジェクト研究 | MDA Advanced Project Research | 1・2・3 | | 2 | | | | ○ | | | | 20 | 30 | 40 | | | 60 | 30 | 20 | 200 | |
| | | | OBL0002 | MDA後期研究留学 | MDA Advanced Research Study Abroad | 1・2・3 | | 2 | | | | | ○ | | | | 20 | 30 | 40 | | 50 | 20 | 20 | 20 | 200 |
| | | | OBL0003 | MDAトップ人材養成特別演習 | MDA Special Exercise for Top-level Human Resource | 1・2・3 | | 2 | | | | ○ | | | | | 20 | 40 | 40 | 20 | | 30 | 30 | 20 | 200 |
| 研究群共通科目群 Degree Programs' Common Courses | 専門科目 Major Subjects | 共通 Common | OBL5000 | ジョブ型研究インターンシップ (システム情報工学) | Cooperative Education through Research Internships (Systems and Information Engineering) | 1・2・3 | | 2 | | | | ○ | | 20 | 50 | 50 | | 20 | 20 | 20 | 20 | 200 | | | |
| 学位プログラム科目群 Program subjects | 社会学関連科目 Policy and Planning Sciences Associated Courses | 専門科目 Major Subjects | OBLA500 | 社会学インターンシップ | Internship in Policy and Planning Sciences | 1・2 | | 2 | | | | ○ | | | | 40 | 40 | 40 | 40 | | | 40 | 200 | | |
| | | | OBLA501 | 社会学ファシリテーター育成プログラムI | Facilitation Training Program in Policy and Planning Sciences I | 1・2 | | 2 | | | | | ○ | | | | | 40 | 40 | 80 | | | | 40 | 200 |
| | | | OBLA502 | 社会学ファシリテーター育成プログラムII | Facilitation Training Program in Policy and Planning Sciences II | 1・2 | | 2 | | | | | ○ | | | | | 40 | 40 | 80 | | | | 40 | 200 |
| | | | OBLA503 | 社会学ファシリテーター育成プレプログラムIII | Facilitation Training Pre-Program in Policy and Planning Sciences III | 1・2・3 | | 1 | | | | | ○ | | | | | 20 | 20 | 40 | | | | 20 | 100 |
| | | | OBLA504 | 社会学ファシリテーター育成プレプログラムIV | Facilitation Training Pre-Program in Policy and Planning Sciences IV | 1・2・3 | | 1 | | | | | ○ | | | | | 20 | 20 | 40 | | | | 20 | 100 |
| | | | OBLA505 | 社会学博士特別演習I | Special Doctoral Seminar in Policy and Planning Sciences I | 1 | | 2 | | | | ○ | | | | | 30 | 20 | 20 | 20 | 20 | 50 | 20 | 20 | 200 |
| | | | OBLA506 | 社会学博士特別演習II | Special Doctoral Seminar in Policy and Planning Sciences II | 1 | | 2 | | | | ○ | | | | | 30 | 20 | 20 | 20 | 20 | 50 | 20 | 20 | 200 |
| | | | OBLA507 | 社会学博士特別演習III | Special Doctoral Seminar in Policy and Planning Sciences III | 2 | | 2 | | | | ○ | | | | | 30 | 20 | 20 | 20 | 20 | 50 | 20 | 20 | 200 |
| | | | OBLA508 | 社会学博士特別演習IV | Special Doctoral Seminar in Policy and Planning Sciences IV | 2 | | 2 | | | | ○ | | | | | 30 | 20 | 20 | 20 | 20 | 50 | 20 | 20 | 200 |
| | | | OBLA509 | 社会学博士特別研究I | Special Doctoral Research Work in Policy and Planning Sciences I | 3 | | 2 | | | | ○ | | | | | 30 | 20 | 20 | 20 | 20 | 50 | 20 | 20 | 200 |
| OBLA510 | 社会学博士特別研究II | Special Doctoral Research Work in Policy and Planning Sciences II | 3 | | 2 | | | | ○ | | | | | 30 | 20 | 20 | 20 | 20 | 50 | 20 | 20 | 200 | | | |
| リスク・レジリエンス工学 Risk and Resilience Engineering Associated Courses | 専門科目 Major Subjects | 専門科目 Major Subjects | OBLC500 | リスク・レジリエンス工学博士特別講義(セキュリティ) | Topics in Risk and Resilience Engineering in Doctoral Program (Security) | 1・2・3 | | 1 | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 | | |
| | | | OBLC501 | リスク・レジリエンス工学博士特別講義(都市防災・リスク情報論) | Topics in Risk and Resilience Engineering in Doctoral Program (Theory of Urban Disaster Mitigation and Risk Information) | 1・2・3 | | 1 | | | ○ | | | | | | 20 | | | | | 20 | 60 | | 100 |
| | | | OBLC503 | リスク・レジリエンス工学博士特別演習 | Advanced Seminar in Risk and Resilience Engineering | 1・2・3 | | 2 | | | | ○ | | | | | 10 | 10 | 10 | | 10 | 80 | 80 | | 200 |
| | | | OBLC504 | リスク・レジリエンス工学博士特別研究 | Advanced Research in Risk and Resilience Engineering | 1・2・3 | | 6 | | | | | ○ | | | | 30 | 30 | 30 | | 30 | 195 | 240 | 45 | 600 |
| | | | OBLC505 | リスク・レジリエンス・ケーススタディ | Risk and Resilience Engineering Case Study | 1・2・3 | | 1 | | | | ○ | | | | | 10 | 10 | | | | 35 | 20 | 25 | 100 |
| | | | OBLC506 | リスク・レジリエンス工学博士PBL演習 | Advanced Group Project Based Learning in Risk and Resilience Engineering | 1・2・3 | | 2 | | | | ○ | | | | | 10 | 10 | 10 | 10 | | 100 | 40 | 20 | 200 |
| | | | OBLC507 | リスク・レジリエンス工学博士インターンシップA | Internship A in Risk and Resilience Engineering in Doctoral Program | 1・2・3 | | 1 | | | | | ○ | | | | 10 | 10 | | | | 50 | 20 | 10 | 100 |
| | | | OBLC508 | リスク・レジリエンス工学博士インターンシップB | Internship B in Risk and Resilience Engineering in Doctoral Program | 1・2・3 | | 2 | | | | | ○ | | | | 20 | 20 | | | | 100 | 40 | 20 | 200 |
| | | | OBLC509 | リスク・レジリエンス工学博士プロジェクト研究 | Advanced Project Research in Risk and Resilience Engineering | 1・2・3 | | 2 | | | | | ○ | | | | 20 | 20 | | | | 100 | 40 | 20 | 200 |
| | | | OBLC510 | リスク・レジリエンス工学博士特別講義(情報知能災害リスクマネジメント) | Policy and case study on information-intelligence-based disaster risk management | 1・2・3 | | 1 | | | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 |
| 専門科目 (昼夜) 専門科目 Major Subjects (Day and Evening Class Program) | 専門科目 Major Subjects | 専門科目 Major Subjects | OBDM223 | システムデザイン論 | Systems Design Theory | 1・2・3 | | 1 | | ○ | | | | 20 | | | | | 20 | 60 | | 100 | | | |
| | | | OBDM227 | ネットワーク特論 | Issues on Network | 1・2・3 | | 1 | | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 | |
| | | | OBDM222 | プロジェクト・マネジメント論 | Special Lecture on Project Management | 1・2・3 | | 1 | | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 | |
| | | | OBDM230 | データマネジメント特論 | Data Management | 1・2・3 | | 1 | | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 | |
| | | | OBDM224 | 情報検索特論 | Advanced Lectures of Information Retrieval | 1・2・3 | | 1 | | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 | |
| | | | OBDM225 | 知的ドキュメント管理論 | Intellectual Document Control | 1・2・3 | | 1 | | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 | |
| | | | OBDM229 | 複雑システム論 | Complex System Engineering | 1・2・3 | | 1 | | | ○ | | | | | 20 | | | | | 20 | 60 | | 100 | |

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|--|---------------------------|------------------------|---|--|-----------------------------|-----------------------------|------------------------|------------------------------|---|-------------------------------------|--------------------------|---------------------------------|--------------------------|------------------------------------|----------------------------------|--------------------------|-----------------|-------------|-----|-----|-----|-----|
| 科目 区分 Course Category | 科目番号 Course Number | 授業科目の名称 Course Name | 標準履修 年次 Standard registrat ion year | 単位数 Credits | | | 授業形態 Course Methods | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | | | | | |
| | | | | 必修 Required | 選択 Core Electi ves | 自由 Free Electi ves | 講義 Lecture s | 演習 Class Exercis es | 実験実 習 Practic al trainin g | 知の 創成力 | マネジメン ト能力 | コミュニ ケーション 能力 | リーダー シップ力 | 国際性 | 研究力 | 専門知識 | 倫理観 | | | | | |
| | | | | | | | | | | Knowledge creation competence | Management competence | Communicat ion competence | Leadership competence | Internatio nality competence | Research ability | Specialized knowledge | Ethical view | | | | | |
| 情報理工関連 科目 Computer Science Associated Courses | 専門科目 Major Subjects | OBLD504 | 情報理工後期特別研究 | Research in Computer Science | 1 | | 6 | | | | ○ | 80 | 70 | 70 | 70 | 70 | 80 | 80 | 80 | 600 | | |
| | | OBLD505 | 情報理工後期特別演習A | Computer Science Seminar A | 1 | | 2 | | | | ○ | | 30 | 20 | 20 | 20 | 20 | 30 | 30 | 30 | 200 | |
| | | OBLD506 | 情報理工後期特別演習B | Computer Science Seminar B | 1・2・3 | | 2 | | | | ○ | | 30 | 20 | 20 | 20 | 20 | 30 | 30 | 30 | 200 | |
| | | OBLD507 | 情報理工後期特別研究s | Research in Computer Science s | 1 | | 3 | | | | ○ | | 40 | 35 | 35 | 35 | 35 | 40 | 40 | 40 | 300 | |
| | | OBLD508 | 情報理工後期特別研究f | Research in Computer Science f | 1 | | 3 | | | | ○ | | 40 | 35 | 35 | 35 | 35 | 40 | 40 | 40 | 300 | |
| | | OBLD509 | 情報理工後期特別演習As | Computer Science Seminar As | 1 | | 1 | | | | ○ | | 15 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 100 | |
| | | OBLD510 | 情報理工後期特別演習Af | Computer Science Seminar Af | 1 | | 1 | | | | ○ | | 15 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 100 | |
| | | OBLD511 | 情報理工後期特別演習Bs | Computer Science Seminar Bs | 1・2・3 | | 1 | | | | ○ | | 15 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 100 | |
| | | OBLD512 | 情報理工後期特別演習Bf | Computer Science Seminar Bf | 1・2・3 | | 1 | | | | ○ | | 15 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 100 | |
| | | OBLD513 | AI社会実践インターンシップ | AI Social Practice Internship | 1・2・3 | | 1 | | | | ○ | | 10 | 10 | 10 | 10 | | 20 | 20 | 20 | 100 | |
| | | OBLD514 | 情報理工分野横断後期特別演習 | Cross-Disciplinary Seminar in Computer Science | 1・2・3 | | 2 | | | | ○ | | 30 | 20 | 20 | 20 | 20 | 30 | 30 | 30 | 200 | |
| | | OBLD516 | 情報理工後期研究発表演習I | Advanced Research Presentation in Computer Science I | 1・2・3 | | 1 | | | | ○ | | | | | | 30 | | 30 | 40 | | 100 |
| | | OBLD517 | 情報理工後期研究発表演習II | Advanced Research Presentation in Computer Science II | 1・2・3 | | 1 | | | | ○ | | | | | | 30 | | 30 | 40 | | 100 |
| | | OBLD518 | 情報理工後期研究発表演習III | Advanced Research Presentation in Computer Science III | 1・2・3 | | 1 | | | | ○ | | | | | | 30 | | 30 | 40 | | 100 |
| 知能機能シ ステム関連 科目 Intelligent and Mechanical Interaction Systems Associated Courses | 専門科目 Major Subjects | OBLE500 | 知能機能システム特別研究A | Research in Intelligent and Mechanical Interaction Systems A | 1・2・3 | | 4 | | | | ○ | 10 | 60 | 40 | 30 | 10 | 100 | 120 | 30 | 400 | | |
| | | OBLE501 | 知能機能システム特別研究B | Research in Intelligent and Mechanical Interaction Systems B | 1・2・3 | | 2 | | | | ○ | | 10 | 10 | 10 | 10 | 10 | 100 | 40 | 10 | 200 | |
| | | OBLE502 | 知能機能システム特別研究C | Research in Intelligent and Mechanical Interaction Systems C | 1・2・3 | | 2 | | | | ○ | | 10 | 10 | 10 | 10 | 10 | 100 | 40 | 10 | 200 | |
| | | OBLE503 | 知能機能システム学術雑誌論文発表演習I | Research Paper Presentation Workshop in Intelligent and Mechanical Interaction Systems I | 1・2・3 | | 2 | | | | ○ | | 20 | | | | 10 | | 120 | 40 | 10 | 200 |
| | | OBLE504 | 知能機能システム学術雑誌論文発表演習II | Research Paper Presentation Workshop in Intelligent and Mechanical Interaction Systems II | 1・2・3 | | 2 | | | | ○ | | 20 | | | | 10 | | 120 | 40 | 10 | 200 |
| | | OBLE505 | 知能機能システム国際会議論文発表演習 | International Conference Paper Presentation Workshop in Intelligent and Mechanical Interaction Systems | 1・2・3 | | 2 | | | | ○ | | 20 | | 20 | 10 | 50 | 80 | 20 | | | 200 |
| | | OBLE506 | 知能機能システムコラボラトリー演習III | Collaboratory Research Workshop in Intelligent and Mechanical Interaction Systems III | 1 | | 1 | | | | ○ | | 10 | 20 | | | 10 | | 30 | 30 | | 100 |
| | | OBLE507 | 知能機能システムコラボラトリー演習IV | Collaboratory Research Workshop in Intelligent and Mechanical Interaction Systems IV | 2 | | 1 | | | | ○ | | 10 | 20 | | | 10 | | 30 | 30 | | 100 |
| | | OBLE508 | 知能機能システム計画調書作成演習III | Research Proposal Writing Workshop in Intelligent and Mechanical Interaction Systems III | 1 | | 1 | | | | ○ | | | | | | 10 | | 50 | 20 | | 100 |
| | | OBLE509 | 知能機能システム計画調書作成演習IV | Research Proposal Writing Workshop in Intelligent and Mechanical Interaction Systems IV | 2 | | 1 | | | | ○ | | | | | | 10 | | 50 | 20 | | 100 |
| 構造エネル ギー工学関 連科目 Engineering Mechanics and Energy Associated Courses | 専門科目 Major Subjects | OBLF500 | 構造エネルギー工学後期特別演習 | Seminar in Engineering Mechanics and Energy | 1 | | 2 | | | | ○ | 10 | 10 | 10 | 5 | 5 | 100 | 50 | 10 | 200 | | |
| | | OBLF501 | 構造エネルギー工学後期特別研究 | Research in Engineering Mechanics and Energy | 1 | | 6 | | | | ○ | | 30 | 30 | 30 | 30 | 30 | 300 | 150 | | 600 | |
| | | OBLF502 | 構造エネルギー工学後期特別演習A | Seminar in Engineering Mechanics and Energy A | 1 | | 1 | | | | ○ | | 5 | 5 | 5 | 5 | | 50 | 25 | 5 | 100 | |
| | | OBLF503 | 構造エネルギー工学後期特別演習B | Seminar in Engineering Mechanics and Energy B | 1 | | 1 | | | | ○ | | 5 | 5 | 5 | | 5 | 50 | 25 | 5 | 100 | |
| | | OBLF504 | 構造エネルギー工学後期特別研究A | Research in Engineering Mechanics and Energy A | 1 | | 3 | | | | ○ | | 15 | 15 | 15 | 15 | 15 | 150 | 75 | | 300 | |
| | | OBLF505 | 構造エネルギー工学後期特別研究B | Research in Engineering Mechanics and Energy B | 1 | | 3 | | | | ○ | | 15 | 15 | 15 | 15 | 15 | 150 | 75 | | 300 | |

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|--|---------------------------|---|---|--|-----------------------------|-----------------------------|------------------------|------------------------------|---|-------------------------------------|--------------------------|---------------------------------|--------------------------|------------------------------------|----------------------------------|--------------------------|-----------------|-------------|-----|-----|
| 科目 区分 Course Category | 科目番号 Course Number | 授業科目の名称 Course Name | 標準履修 年次 Standard registrat ion year | 単位数 Credits | | | 授業形態 Course Methods | | | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | | | |
| | | | | 必修 Required | 選択 Core Electi ves | 自由 Free Electi ves | 講義 Lecture s | 演習 Class Exercis es | 実験実 習 Practic al trainin g | 知の 創成力 | マネジメン ト能力 | コミュニ ケーション 能力 | リーダー シップ力 | 国際性 | 研究力 | 専門知識 | 倫理観 | | | |
| | | | | | | | | | | Knowledge creation competence | Management competence | Communicat ion competence | Leadership competence | Internatio nality competence | Research ability | Specialized knowledge | Ethical view | | | |
| エンパワーメント情報学関連科目 Empowerment Informatics Associated Courses | 専門科目 Major Subjects | OBLG500 | エンパワーメント情報学原論 | Introduction to Empowerment Informatics | 1・2・3 | | 1 | | | ○ | | | | | | 50 | 25 | 100 | | |
| | | OBLG501 | エンパワーメント情報学特別演習I | Seminar in Empowerment Informatics I | 1 | | 2 | | | ○ | | | | | | | 50 | 50 | 200 | |
| | | OBLG502 | エンパワーメント情報学特別演習II | Seminar in Empowerment Informatics II | 2 | | 2 | | | ○ | | | | | | | 50 | 50 | 200 | |
| | | OBLG503 | エンパワーメント情報学特別研究I | Research in Empowerment Informatics I | 1 | | 4 | | | ○ | | | | | | | 50 | 50 | 400 | |
| | | OBLG504 | エンパワーメント情報学特別研究II | Research in Empowerment Informatics II | 2 | | 4 | | | ○ | | | | | | | 50 | 50 | 400 | |
| | | OBLG505 | エンパワーメント情報学特別研究III | Research in Empowerment Informatics III | 3 | | 4 | | | ○ | | | | | | | 50 | 50 | 400 | |
| | | OBLG506 | エンパワーメント情報学特別研究IV | Research in Empowerment Informatics IV | 4 | | 4 | | | ○ | | | | | | | 50 | 50 | 400 | |
| | | OBLG507 | エンパワーメント情報学特別研究V | Research in Empowerment Informatics V | 5 | | 4 | | | ○ | | | | | | | 50 | 50 | 400 | |
| | | OBLG508 | エンパワーメントプロジェクト研究 | Empowerment Informatics Project-based Research | 1・2・3 | | 2 | | | | ○ | | | | | | 50 | | 50 | 200 |
| | | OBLG509 | エンパワーメント学術雑誌論文発表演習 | Research Paper Writing Workshop in Empowerment Informatics | 1・2・3・4・5 | | 2 | | ○ | | | | | | | | 100 | | 100 | 200 |
| | | OBLG510 | エンパワーメント国際会議・学術雑誌論文発表演習 | Conference Paper and Journal Paper Writing Exercise in Empowerment Informatics | 1・2・3・4・5 | | 2 | | ○ | | | | | | | | 100 | | 100 | 200 |
| | | OBLG511 | アントレプレナーシップ演習 | Entrepreneurship Exercise | 3 | | 1 | | ○ | | | | | | | | | | 100 | 100 |
| | | OBLG512 | エンジニアリングレジデンス実習 | Practical Training in Engineering Residence | 4 | | 1 | | | | ○ | | | | | | | | 75 | 100 |
| | | OBLG513 | エンパワーメント研究発表演習 | Exercises on Presentation Skills in Empowerment Informatics | 1・2 | | 1 | | | ○ | | | | | | | 40 | 40 | 100 | |
| OBLG514 | エンパワーメント情報学特論I | Special Research in Empowerment Informatics I | 1・2 | | 2 | | | ○ | | | | | | | 100 | 50 | 200 | | | |