| 科目区分 | | 授業科目の名称 | 英文科目名 | 必修 | 選択 | 履修要件 |
|-------------------|-----------------------------------|------------------------------------|--|-------------|----------|---------------------------------------|
| Subjects Category | | Subjects | Subjects in English Title | Require | Elective | |
| | | | | ment | | |
| 究科共通科目 | 大学院GS基盤科目 | 異分野研究探査 I | Laboratory Rotation Ι ρ | 0.5 | | 1 |
| aduate | GS Basic Courses for | 異分野研究探査 II Frontier | Laboratory Rotation II | 0.5 | | |
| hool | Postgraduates | 研究者倫理 | Research Ethics | 1 | | 1 |
| mmon | | 知識集約型社会とデータサイエンス | Data Science and Society 5.0 | | 1 | 選択必修1単位以上 |
| ırses | | 次世代の先端科学技術 | Advanced Science and Technology in the Next Genera | tion | 1 | Required to take more than 1 credi |
| | | スマート創成科学 | Smart Science and Technology for Innovation | | 1 | A second to take more than 1 order |
| | | イノベーション方法論A | Innovation Methodology A | | 1 | / _ |
| | | イノベーション方法論B | | | | |
| | | | Innovation Methodology B | ^ | 1 | |
| | | 数理・データサイエンス・AI基盤 | | ρ | 1 | 27 In 2 164 W/I LL |
| | | 人間と社会の課題 | Human and Social Challenges | | 1 | 選択必修1単位以上 |
| | | 技術経営論 A | Management of Technology A | | 1 | Required to take more than 1 credi |
| | | 技術経営論B | Management of Technology B | | 1 | |
| | | ヘルスケア・イノベーション | Innovation in Healthcare | | 1 | ./ 2 |
| | | 破壊的イノベーションに向けた技術経営論 | MoT as for Disruptive Innovation | | 1 | V |
| | | 技術マネジメント基礎論A | Fundamentals of Management of Technology | · A | 1 | |
| | | 技術マネジメント基礎論B | Fundamentals of Management of Technology | В | 1 | |
| | | 数理科学 a | Topics in Mathematical Science a | | 1 | |
| | | 数理科学 b | Topics in Mathematical Science b | | 1 | |
| | | 理論物理学基礎 a | Introduction to Theoretical Physics a | | 1 | |
| | | 生物·分子物理学 a | Introduction to Molecular and Biophysics a | | 1 | |
| | | 凝縮系物理学基礎 a | Introduction to Molecular and Biophysics a | | 1 | |
| | | · | | | _ | |
| | | 宇宙・プラズマ物理学 a | Introduction to Plasma and Astrophysics a | | 1 | |
| | | 振動・波動物理学 a | Physics of Oscillations and Waves a | | 1 | |
| | | 計算理学概論 a | Topics in Computational Science a | | 1 | |
| | | 計算理学概論 b | Topics in Computational Science b | | 1 | |
| | | 先端物質化学概論 A | Advanced Material Chemistry A | | 1 | |
| | | 先端物質化学概論 B | Advanced Material Chemistry B | | 1 | |
| | | 応用物質化学概論 A | Applied Material Chemistry A | | 1 | |
| | | 応用物質化学概論B | Applied Material Chemistry B | | 1 | |
| | | 生物科学基礎A | Fundamentals of Biological Science A | | 1 | |
| | | 生物科学基礎B | Fundamentals of Biological Science B | | 1 | |
| | | | _ | | 1 | |
| | | バイオ工学特論A | Advanced Bioengineering A | | _ | |
| | | バイオ工学特論B | Advanced Bioengineering B | | 1 | |
| | | 地球惑星科学基礎 A | Fundamentals of Earth and Planetary Science | e A | 1 | |
| | | 地球惑星科学基礎B | Fundamentals of Earth and Planetary Science | е В | 1 | |
| | | 環境・エネルギー工学総論 A | Introduction to Environmental and Energy Engineering | ıg A | 1 | |
| | | 環境・エネルギー工学総論B | Introduction to Environmental and Energy Engineerin | ıg B | 1 | |
| | 北陸先端科学技術大学院大学との | | | _ | | |
| | 連携科目 | | | | | |
| | Cooperative Studies with JAIST | 連携科目 | Cooperative Studies with Jaist | | 2 | |
| | Cooperative Studies with JAIST | XED9111 II | Sooperative Studies with Juist | | - | |
| | | | | | | |
| | 創成研究科目 | 創成研究 | Creative Research 1 | | 2 | |
| | Creative Research Courses | 創成研究Ⅱ | Creative Research 2 | | 2 | |
| | | 国際プレゼンテーション演習 | | | 2 | |
| | 国際交流科目※1 | | Practice on International Presentation | | | |
| | International Studies Courses ¥ 1 | 国際研究インターンシップ | International Research Internship | | 2 | |
| コンティア基 | 機械系科目 | 材料力学と弾性論 A | Mechanics of Materials and Theory of Elastici | - | 1 | |
| 目 | Mechanical Engineering Courses | 材料力学と弾性論B | Mechanics of Materials and Theory of Elastici | ty B | 1 | |
| ntier Basic | | 機械力学と制御 A | Dynamics and Control A | | 1 | |
| rses | | 機械力学と制御B | Dynamics and Control B | | 1 | |
| | | 熱流体解析学 A | Analysis of Thermo-Fluid Systems A | | 1 | |
| | | 熱流体解析学B | Analysis of Thermo-Fluid Systems B | | 1 | |
| | | 機械の動的モデリングA | Mechanical System Dynamics Modeling A | | 1 | |
| | | 機械の動的モデリング B | Mechanical System Dynamics Modeling B | | 1 | |
| | | | <u> </u> | | | |
| | | 有限要素法A | T Inter Element Wethout | 3 14 | 1 | 機械系科目, 化学工学系科目, 計》 |
| | | 有限要素法B | Finite Element Method B | . | 1 | 系科目からそれぞれ1単位以上を含 |
| | | 構造解析と材料力学A | Structural Analysis and Strength of Material | | 1 | 単位以上を修得 |
| | | 構造解析と材料力学B | Structural Analysis and Strength of Material | 3 | 1 | Required to take 6 credits including |
| | 化学工学系科目 | プロセス工学特論 A | Advanced Process Engineering A | | 1 | more than 1 credit from Mechanic |
| | Chemical Engineering Courses | プロセス工学特論 B | Advanced Process Engineering B | | 1 | Engineering Subjects, more than |
| | | 物理化学特論 A | Advanced Physical Chemistry A 🕴 🥱 | CYCL | 1 | |
| | | 物理化学特論B | Advanced Physical Chemistry B | | 1 | credit from Chemical Engineering |
| | | 熱輸送論A | Advanced Heat Transfer A | | 1 | Subjects and more than 1 credit f |
| | | 熱輸送論B | Advanced Heat Transfer B | | 1 | Measurement and Control subjec |
| | 計測制御系科目 | ナノ計測制御基礎論 A | Fundamentals of Nanoscale Measurements and Control | I A | 1 | + |
| | Measurement and Control | ナノ計測制御基礎論B | Fundamentals of Nanoscale Measurements and Control | | 1 | |
| | | | | | | |
| | Courses | 計測システム工学A | Measurement System Engineering A | | 1 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| | | 計測システム工学B | Measurement System Engineering B | | 1 |) V' |
| | | 光工学 A | Optical Engineering A | | 1 | (C) |
| | | 光工学B | Optical Engineering B | credit | 1 | |
| | | 計測制御A | Measurement and control A AA | | 1 | |
| | | 計測制御B | Measurement and control B AA | | 1 | |
| ンティア先 | 知能機械プログラム | 実世界ロボティクス特論A | Real-world robotics A | | 1 | |
| ·目 | Intelligent Mechanical | 実世界ロボティクス特論B | Real-world robotics B | | 1 | |
| | | | | | | |
| ntier | Engineering Program | 航空宇宙システム特論A | Aeronautical Systems A | | 1 | |
| anced | | 航空宇宙システム特論B | Aeronautical Systems B | | 1 | |
| rses | | インテリジェントロボットA | Intelligent Robot A | | 1 | |
| - | | インテリジェントロボットB | Intelligent Robot B | | 1 | |
| | | I . | | | 1 | 1 |
| | | メカニズムの運動解析と設計A | Kinematics and Design in Mechanism A | | 1 | |
| | | メカニズムの運動解析と設計 A メカニズムの運動解析と設計 B | Kinematics and Design in Mechanism A Kinematics and Design in Mechanism B | | 1 | |

| | コンピュータビジョン特論 A | Computer Vision A | | 1 | |
|--|----------------|--|------|---|---|
| | コンピュータビジョン特論B | Computer Vision B | | 1 | |
| 人間機械共生プログラム | 医用生体工学概論 A | Introduction to Medical and Biological Engineering A | | 1 | |
| Human-machine Symbiotic | 医用生体工学概論B | Introduction to Medical and Biological Engineering B | | 1 | |
| Systems Program | 生体運動制御 A | Motor control of human movement A | | 1 | |
| | 生体運動制御B | Motor control of human movement B | | 1 | |
| | 生体力学基礎論 | Fundamentals of Biomechanics | | 2 | 1 (6 - 1) |
| | バイオメカニクス特論A | Biomechanics A | | 1 | 6 credit |
| | バイオメカニクス特論B | Biomechanics B | | 1 | |
| | 生体機械工学特論 A | Advanced Biomechanical Engineering A A A | | 1 | 各プログラムが指定するフロンティア先 |
| | 生体機械工学特論B | Advanced Biomechanical Engineering B | | 1 | 端科目から4単位以上を修得 |
| | 応用人間工学特論 A | Applied Ergonomics A | | 1 | Requrired to take more than 4 credits |
| | 応用人間工学特論B | Applied Ergonomics B | | 1 | from Frontier Advanced Subjects |
| 化学工学プログラム | 環境生物化学工学 A | Environmental and Biochemical Engineering A | | 1 | specified by the program which |
| Advanced Chemical Engineering | 環境生物化学工学B | Environmental and Biochemical Engineering B | | 1 | students have selected |
| Program | レオロジー要論 A | Applied Rheology A | | 1 | |
| | レオロジー要論B | Applied Rheology B | | 1 | |
| | 拡散分離工学特論A | Diffusional Separation Engineering A | | 1 | |
| | 拡散分離工学特論B | Diffusional Separation Engineering B | | 1 | |
| | エアロゾル科学A | Aerosol Science and Technology A | | 1 | \sim / |
| | エアロゾル科学B | Aerosol Science and Technology B | | 1 | ' V |
| | 大気環境科学特論 A | Atomospheric Environmental Science A | | 1 | |
| | 大気環境科学特論B | Atomospheric Environmental Science B | | 1 | |
| | 化学反応工学特論 A | Advanced Chemical Reaction Engineering A | | 1 | |
| | 化学反応工学特論B | Advanced Chemical Reaction Engineering B | | 1 | |
| スマート計測制御プログラム | 制御工学特論 A | Advanced Topics in Control Engineering A | | 1 | 1 |
| Smart Measurement and Control | 制御工学特論B | Advanced Topics in Control Engineering B | | 1 | |
| Program | ロバスト制御 | Robust Control | | 2 | |
| | メディアプロセッサA | Media Processors A | | 1 | |
| | メディアプロセッサB | Media Processors B | | 1 | |
| | コンピュータビジョン特論 A | Computer Vision A | | 1 | |
| | コンピュータビジョン特論B | Computer Vision B | | 1 | |
| 課題研究 | フロンティア課題研究 | Master Thesis Report for Frontiers | 10 🧖 | \ | 研究の取りまとめを博士研究調査により |
| Master Thesis Report | フロンティア工学演習 A | Exercise on Frontier Engineering A | 1 | | 行う場合は, フロンティア課題研究に替 |
| | フロンティア工学演習 B | Exercise on Frontier Engineering B | 1 | | えて*を履修すること。 |
| | フロンティア工学演習C | Exercise on Frontier Engineering C | 1 | | (In case of summarizing research |
| | フロンティア工学演習D | Exercise on Frontier Engineering D | 1 - | • | activities as Ph.D. Qualifying |
| 博士研究調査 Ph.D. Qualifying Examination | 博士研究調査 * | Ph.D. Qualifying Examination * | 10 | | Examination, students are required to take Ph.D. Qualifying Examination instead of Master Thesis Report for |
| | | | | | Frontiers) |

stiplated sepaletely.