

Graduate School of Science and Technology

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Master's Course

| Three Common Courses | |
|---|---|
| Advanced Technological Presentation | Engineering Design |
| Design of Experiments and Data Analysis | Environmental Science and Engineering |
| Advanced Life Science | Physics and chemistry of the upper atmosphere |
| Introduction to changes in the global environment | Internship for Business and Public Sector |
| Specialized Studies in Interdisciplinary Fields | |

| Materials and Life Science Course | |
|---|--|
| Advanced Nonlinear Phenomena I | Advanced Nonlinear Phenomena II |
| Advanced Nanomaterial Science I | Advanced Nanomaterial Science II |
| Advanced Optoelectronics | Advanced Surface Science |
| Advanced Thin Film Technology I | Advanced Thin Film Technology II |
| Advanced Quantum Mechanics I | Advanced Quantum Mechanics II |
| Advanced Materials and Nanoscience I | Advanced Materials and Nanoscience II |
| Advanced Organic Chemistry I | Advanced Organic Chemistry II |
| Advanced Applied Chemistry of Natural Materials I | Advanced Applied Chemistry of Natural Materials II |
| Advanced Biological Electronics and Engineering I | Advanced Biological Electronics and Engineering II |
| Advanced Biochemistry I | Advanced Biochemistry II |
| Advanced Physical Organic Chemistry | Advanced Biological and Life Science |
| Advanced Chemistry and Life Science | Advanced Analytical Chemistry |
| Chemical Analysis and Chemometrics I | Chemical Analysis and Chemometrics II |
| Advanced Process System and Engineering I | Advanced Process System and Engineering II |
| Advanced Environmental Materials and Engineering I | Advanced Environmental Materials and Engineering II |
| Advanced Inorganic Chemistry I | Advanced Inorganic Chemistry II |
| Advanced Multidimensional Systems I | Advanced Multidimensional Systems II |
| Advanced Environmental Engineering I | Advanced Environmental Engineering II |
| Advanced Environmental Chemical Engineering | Special Seminar in Materials and Life Science I |
| Special Seminar in Materials and Life Science II | Advanced Laboratory Course of Materials and Life Science I |
| Advanced Laboratory Course of Materials and Life Science II | |

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| Computer and Information Science Course | |
|---|--|
| Advanced Computer System I | Advanced Computer System II |
| Advanced Communication Engineering I | Advanced Communication Engineering II |
| Advanced Information Network I | Advanced Information Network II |
| Advanced Ubiquitous Engineering | Advanced Wireless Communication Engineering |
| Advanced Software Engineering I | Advanced Software Engineering II |
| Advanced Image Communication I | Advanced Image Communication II |
| Advanced Data Engineering | Advanced Intelligent User Interfaces I |
| Advanced Intelligent User Interfaces II | Advanced Pattern Recognition |
| Advanced Database | Image Media I |
| Image Media II | Natural Language Processing I |
| Natural Language Processing II | Program Theory I |
| Program Theory II | Advanced Numerical Analysis |
| Advanced Statistics I | Advanced Statistics II |
| Advanced Informatical Mathematics | Advanced Operations Research |
| Advanced System Analysis | Advanced Optimization I |
| Advanced Optimization II | Advanced Algorithms I |
| Advanced Algorithms II | Special Seminar in Computer and Information Science I |
| Special Seminar in Computer and Information Science II | Advanced Laboratory Course of Computer and Information Science I |
| Advanced Laboratory Course of Computer and Information Science II | |

| Electrical and Mechanical Engineering Course | |
|--|-------------------------------------|
| Advanced Power System Engineering | Electrical Power and Energy I |
| Electrical Power and Energy II | Electron Devices I |
| Electron Devices II | Advanced Surface Science |
| Advanced Semiconductor Physics | Advanced Acoustics and Vibrations I |
| Advanced Acoustics and Vibrations II | Advanced Computational Mechanics I |
| Advanced Computational Mechanics II | Advanced Fluid Dynamics I |

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| Electrical and Mechanical Engineering Course | |
|---|--|
| Advanced Fluid Dynamics II | Advanced Course of Material Science I |
| Advanced Course of Material Science II | Advanced Mechanics of Solids |
| Advanced Thermal Engineering | Advanced Psychoacoustics |
| Advanced Design Engineering | Advanced Mechatronics |
| Advanced Control Engineering | Intelligent System Engineering I |
| Intelligent System Engineering II | Advanced Robotics I |
| Advanced Robotics II | Advanced Mechanics of Material Processing |
| Advanced Machine Tools I | Advanced Machine Tools II |
| Advanced Ergonomics I | Advanced Ergonomics II |
| Advanced Industrial Engineering I | Advanced Industrial Engineering II |
| Advanced Human Factors I | Advanced Human Factors II |
| Rehabilitation Engineering | Usability Engineering |
| Advanced Electrical and Mechanical Engineering I | Advanced Electrical and Mechanical Engineering II |
| Advanced Applied Mathematics I | Advanced Applied Mathematics II |
| Special Seminar in Electrical and Mechanical Engineering I | Special Seminar in Electrical and Mechanical Engineering II |
| Advanced Laboratory Course of Electrical and Mechanical Engineering I | Advanced Laboratory Course of Electrical and Mechanical Engineering II |

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Doctor's Course

| Materials and Life Science Course | |
|---|--|
| Advanced Nonlinear Phenomena III | Advanced Nonlinear Phenomena IV |
| Advanced Nanomaterial Science III | Advanced Nanomaterial Science IV |
| Advanced Quantum Mechanics III | Advanced Organic Chemistry III |
| Advanced Organic Chemistry IV | Advanced Applied Chemistry of Natural Materials III |
| Advanced Applied Chemistry of Natural Materials IV | Advanced Biological Electronics and Engineering III |
| Advanced Biological Electronics and Engineering IV | Advanced Biochemistry III |
| Advanced Biochemistry IV | Chemical Analysis and Chemometrics III |
| Chemical Analysis and Chemometrics IV | Advanced Process System and Engineering III |
| Advanced Process System and Engineering IV | Advanced Environmental Materials and Engineering III |
| Advanced Environmental Materials and Engineering IV | Advanced Inorganic Chemistry III |
| Advanced Inorganic Chemistry IV | Advanced Multidimensional Systems III |
| Advanced Multidimensional Systems IV | Special Seminar in Materials and Life Science III |
| Special Seminar in Materials and Life Science IV | Advanced Laboratory Course of Materials and Life Science III |
| Advanced Laboratory Course of Materials and Life Science IV | |

| Computer and Information Science Course | |
|--|---|
| Advanced Computer System III | Advanced Computer System IV |
| Advanced Communication Engineering III | Advanced Communication Engineering IV |
| Advanced Information Network III | Advanced Information Network IV |
| Advanced Software Engineering III | Advanced Software Engineering IV |
| Advanced Image Communication III | Advanced Image Communication IV |
| Advanced Intelligent User Interfaces III | Advanced Intelligent User Interfaces IV |
| Image Media III | Image Media IV |
| Advanced Statistics III | Advanced Statistics IV |
| Advanced Optimization III | Advanced Optimization IV |
| Special Seminar in Computer and Information Science III | Special Seminar in Computer and Information Science IV |
| Advanced Laboratory Course of Computer and Information Science III | Advanced Laboratory Course of Computer and Information Science IV |

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| Electrical and Mechanical Engineering Course | |
|---|--|
| Electrical Power and Energy III | Electrical Power and Energy IV |
| Electron Devices III | Electron Devices IV |
| Advanced Acoustics and Vibrations III | Advanced Acoustics and Vibrations IV |
| Advanced Computational Mechanics III | Advanced Computational Mechanics IV |
| Advanced Fluid Dynamics III | Advanced Fluid Dynamics IV |
| Advanced Course of Material Science III | Advanced Course of Material Science IV |
| Applied Mechatronics | Advanced Control System Engineering |
| Intelligent System Engineering III | Intelligent System Engineering IV |
| Advanced Robotics III | Advanced Robotics IV |
| Advanced Machine Tools III | Advanced Machine Tools IV |
| Advanced Ergonomics III | Advanced Ergonomics IV |
| Advanced Industrial Engineering III | Advanced Industrial Engineering IV |
| Special Seminar in Electrical and Mechanical Engineering III | Special Seminar in Electrical and Mechanical Engineering IV |
| Advanced Laboratory Course of Electrical and Mechanical Engineering III | Advanced Laboratory Course of Electrical and Mechanical Engineering IV |