

# 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 Fierds	

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