#### Contents

Master's Course	2
Three Common Courses	2
Materials and Life Science Course	2
Computer and Information Science Course	3
System Design Engineering Course	3
Doctor's Course	5
Materials and Life Science Course	5
Computer and Information Science Course	5
System Design Engineering Course	6



#### **Master's Course**

Three Common Courses	
Advanced Technological Presentation	Engineering Design
Physics and Chemistry of the Upper Atmosphere	Introduction to Changes in the Global Environment
Introduction to Natural Resource Science	Advanced Image Sensing
Preparatory Seminar for Advanced Internship	Advanced Internship
Specialized Studies	

Materials and Life Science Course	
Advanced Nonlinear Phenomena I	Advanced Nonlinear Phenomena II
Advanced Nanomaterial Science I	Advanced Nanomaterial Science II
Advanced Thin Film Technology I	Advanced Thin Film Technology II
Advanced Multidimensional Systems I	Advanced Multidimensional Systems II
Chemical Analysis and Chemometrics I	Chemical Analysis and Chemometrics II
Advanced Quantum Mechanics I	Advanced Quantum Mechanics II
Advanced Materials and Nanoscience	Advanced Optoelectronics
Advanced Surface Science	Advanced Analytical Chemistry
Advanced Organic Chemistry I	Advanced Organic Chemistry II
Advanced Inorganic Chemistry I	Advanced Inorganic Chemistry II
Advanced Applied Chemistry of Natural Materials	Advanced Biomolecular Chemistry I
Advanced Biomolecular Chemistry II	Advanced Biochemistry I
Advanced Biochemistry II	Advanced Physical Organic Chemistry
Advanced Materials Chemistry	Advanced Chemistry and Life Science
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 Environmental Engineering I	Advanced Environmental Engineering II
Bioelectronics for Physiology and Environment I	Bioelectronics for Physiology and Environment II
Advanced Environmental Chemical Engineering	Advanced Electrochemistry I
Advanced Electrochemistry II	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	

Computer and Information Science Course	
Advanced Computer System I	Advanced Computer System II
Advanced Software I	Advanced Software II
Program Theory I	Program Theory II
Advanced Communication Engineering I	Advanced Communication Engineering II
Advanced Information Network I	Advanced Information Network II
Advanced Ubiquitous Engineering	Advanced Database
Advanced Image Communication I	Advanced Image Communication II
Advanced Intelligent Interfaces I	Advanced Intelligent Interfaces II
Advanced Image Media I	Advanced Image Media II
Natural Language Processing I	Natural Language Processing II
Advanced Speech Information Processing I	Advanced Speech Information Processing II
Advanced Statistics I	Advanced Statistics II
Advanced Optimization I	Advanced Optimization II
Advanced Algorithms I	Advanced Algorithms II
Advanced Computation I	Advanced Computation II
Advanced Numerical Analysis	Advanced Operations Research I
Advanced Operations Research II	Advanced System Analysis
Advanced Intelligent Informatics I	Advanced Intelligent Informatics II
Advanced Pattern Recognition I	Advanced Pattern Recognition II
Special Seminar in Computer and Information Science I	Special Seminar in Computer and Information Science II
Advanced Laboratory Course of Computer and Information	Advanced Laboratory Course of Computer and Information
Science I	Science II

System Design Engineering Course	
Electrical Power and Energy I	Electrical Power and Energy II
Advanced Plasma Energy Design I	Advanced Plasma Energy Design II
Electron Devices I	Electron Devices II
Advanced Power System Engineering	Advanced Surface Science
Advanced Acoustics and Vibrations I	Advanced Acoustics and Vibrations II



System Design Engineering Course	
Advanced Computational Mechanics I	Advanced Computational Mechanics II
Advanced Fluid Dynamics I	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 Robotics I	Advanced Robotics II
Biomedical Engineering I	Biomedical Engineering II
Intelligent Mechatronics I	Intelligent Mechatronics II
Advanced Motor Drive Systems I	Advanced Motor Drive Systems II
Advanced Intelligent System Engineering I	Advanced Intelligent System Engineering II
Advanced Machine Tools	Advanced Ergonomics I
Advanced Ergonomics II	Advanced Industrial Engineering I
Advanced Industrial Engineering II	Advanced Human Factors I
Advanced Human Factors II	Advanced Manufacturing Systems I
Advanced Manufacturing Systems II	Rehabilitation Engineering
Usability Engineering	Advanced Systems Design Engineering I
Advanced Systems Design Engineering II	Advanced Applied Mathematics I
Advanced Applied Mathematics II	Special Seminar in Systems Design Engineering I
Special Seminar in Systems Design Engineering II	Advanced Laboratory Course of Systems Design Engineering I
Advanced Laboratory Course of Systems Design Engineering II	

#### **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 Thin Film Technology III	Advanced Thin Film Technology IV
Advanced Multidimensional Systems III	Advanced Multidimensional Systems IV
Chemical Analysis and Chemometrics III	Chemical Analysis and Chemometrics IV
Advanced Organic Chemistry III	Advanced Organic Chemistry IV
Advanced Inorganic Chemistry III	Advanced Inorganic Chemistry IV
Advanced Biomolecular Chemistry III	Advanced Biomolecular Chemistry IV
Advanced Biochemistry III	Advanced Biochemistry IV
Advanced Environmental Materials and Engineering III	Advanced Environmental Materials and Engineering IV
Advanced Environmental Engineering III	Advanced Environmental Engineering IV
Bioelectronics for Physiology and Environment III	Bioelectronics for Physiology and Environment 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 Software III	Advanced Software IV
Program Theory III	Program Theory IV
Advanced Information Network III	Advanced Information Network IV
Advanced Image Communication III	Advanced Image Communication IV
Advanced Intelligent Interfaces III	Advanced Intelligent Interfaces IV
Advanced Image Media III	Advanced Image Media IV
Natural Language Processing III	Natural Language Processing IV
Advanced Speech Information Processing III	Advanced Speech Information Processing IV
Advanced Optimization III	Advanced Optimization IV
Advanced Algorithms III	Advanced Algorithms IV
Advanced Computation III	Advanced Computation IV
Advanced Statistics III	Advanced Statistics IV

Computer and Information Science Course	
Advanced Pattern Recognition III	Advanced Pattern Recognition IV
Advanced Intelligent Informatics III	Advanced Intelligent Informatics IV
Special Seminar in Computer and Information Science III	Special Seminar in Computer and Information Science IV
Advanced Laboratory Course of Computer and Information	Advanced Laboratory Course of Computer and Information
Science III	Science IV

System Design Engineering Course	
Electrical Power and Energy III	Electrical Power and Energy IV
Advanced Plasma Energy Design III	Advanced Plasma Energy Design 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
Advanced Intelligent System Engineering III	Advanced Intelligent System Engineering IV
Advanced Robotics III	Advanced Robotics IV
Applied Mechatronics	Advanced Control System Engineering
Advanced Industrial Engineering III	Advanced Industrial Engineering IV
Special Seminar in Systems Design Engineering III	Special Seminar in Systems Design Engineering IV
Advanced Laboratory Course of Systems Design Engineering III	Advanced Laboratory Course of Systems Design Engineering IV