

Sustainable Engineering Program

Development and Environmental Engineering Course

(1)Dept. of Civil and Environmental Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	ASAKURA, Yasuo	Transportation Planning & Engineering		• Civil Engineering • Urban Design and Built Environment
Professor	HIROSE, Sohichi	Applied Solid Mechanics		Civil Engineering
Professor	IWANAMI, Mitsuyasu	Infrastructure Management, Marine Structure Engineering		Civil Engineering
Professor	KANAE, Shinjiro	Hydrology, Hydrologic cycle, Water resources		Civil Engineering
Professor	KINOUCI, Takeshi	Hydrology, River Engineering		Civil Engineering
Professor	KITAZUME, Masaki	Soil Mechanics & Geotechnical Engineering		• Engineering Sciences and Design • Civil Engineering
Professor	MORIKAWA, Hitoshi	Earthquake Engineering		• Urban Design and Built Environment • Civil Engineering
Professor	NADAOKA, Kazuo	Coastal Ecosystem Conservation Studies, Integrated Coastal Zone Management, Coastal Oceanography and Engineering		Civil Engineering
Professor	NIWA, Junichiro	Structural Concrete		Civil Engineering
Professor	TAKAHASHI, Akihiro	Geotechnical Engineering		Civil Engineering
Professor	YAI, Tetsuo	Transportation Planning & Engineering		• Urban Design and Built Environment • Civil Engineering
Associate Professor	FUKUDA, Daisuke	Transportation and Infrastructure Planning		• Civil Engineering • Urban Design and Built Environment
Associate Professor	MUROMACHI, Yasunori	Urban Transportation Planning		• Urban Design and Built Environment • Civil Engineering
Associate Professor	NAKAMURA, Takashi	Coastal Engineering		Civil Engineering
Associate Professor	NAKAMURA, Takashi	Numerical Fluid Mechanics		Civil Engineering
Associate Professor	SASAKI, Ei-ichi	Bridge Engineering & Structural Engineering		Civil Engineering
Associate Professor	TAKEMURA, Jiro	Soil Mechanics & Geo-environmental Engineering		Civil Engineering
Associate Professor	WIJEYEWICKREMA, C. Anil	Applied Mechanics		Civil Engineering
Associate Professor	YOSHIMURA, Chihiro	Environmental Engineering, Biogeochemistry		Civil Engineering

(2)Dept. of Transdisciplinary Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	HINODE, Hirofumi	Inorganic Materials and Properties, Catalyst and Chemical, Process, Chemical Engineering in General		Global Engineering for Development, Environment and Society
Professor	KANDA, Manabu	Regional Atmospheric Environment		Global Engineering for Development, Environment and Society
Professor	NAKASAKI, Kiyohiko	Environmental Bioengineering		Global Engineering for Development, Environment and Society
Professor	TAKADA, Jun-ichi	Wireless Communications, Electromagnetic Wave Theory and Application, ICT and Development		Global Engineering for Development, Environment and Society
Professor	TAKAHASHI, Kunio	Mechanical Engineering, Mechanics, Material Science, Material Processing		Global Engineering for Development, Environment and Society
Professor	YAMAGUCHI, Shinobu	Education and IT, International Development and Cooperation, Sustainable Development of World Cultural Heritage		Global Engineering for Development, Environment and Society
Associate Professor	ABE, Naoya	Environmental Economics, Policy Studies for the Environment, International Cooperation		Global Engineering for Development, Environment and Society

Associate Professor	AKITA, Daisuke	Aerospace System, Aerodynamics		Global Engineering for Development, Environment and Society
Associate Professor	EGASHIRA, Ryuichi	Separation Engineering, Separation Process, Separation Operation		Global Engineering for Development, Environment and Society
Associate Professor	HANAOKA, Shinya	Transport Planning, Transport Logistics, Transport Project Management		Global Engineering for Development, Environment and Society
Associate Professor	TAKAGI, Hiroshi	Disaster Prevention Engineering, Coastal Engineering		Global Engineering for Development, Environment and Society
Associate Professor	YAMASHITA, Yukihiko	Computer Science, Intelligent Informatics		Global Engineering for Development, Environment and Society

Nuclear Engineering Course

(1) Dept. of Mechanical Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Associate Professor	KIKURA, Hiroshige	Nuclear Reactor Safety, Process Control and Measurement System, Thermal Hydraulics, Safe Transport of Radioactive Material		<ul style="list-style-type: none"> • Nuclear Engineering, • Energy Science and Engineering

(2) Dept. of Electrical and Electronic Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	OGURI, Yoshiyuki	Heavy-Ion Inertial Fusion, Accelerator-based Environmental and Medical Sciences		Nuclear Engineering
Associate Professor	AKATSUKA, Hiroshi	Plasma Diagnostics, plasma Spectroscopy, Laser Engineering, Atomic and Molecular Processes in Plasmas		Nuclear Engineering

(3) Dept. of Materials Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	KOBAYASHI, Yoshinao	Safety Metallurgy for Nuclear Reactors, Phase Stability, Degradation of Materials in Reactors, Waste Management		<ul style="list-style-type: none"> • Nuclear Engineering • Materials Science and Engineering
Associate Professor	YOSHIDA, Katsumi	Severe environment resistant materials, Materials for nuclear and fusion applications, Ceramic-based composites, High performance porous ceramics		<ul style="list-style-type: none"> • Nuclear Engineering • Materials Science and Engineering

(4) Dept. of Chemical Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	KATO, Yukitaka	Energy Conversion, Energy Storage, Chemical Heat Pump, Carbon Recycling Energy System, Hydrogen Energy, Nuclear Energy Utilization System		Nuclear Engineering
Associate Professor	TAKAO, Koichiro	Nuclear Fuel Cycle, Actinide Chemistry, Ionic Liquid, Treatment and Disposal of Radioactive Wastes, Decontamination, Complex Catalyst, Separation of Nuclides, Reactor Hydrochemistry		Nuclear Engineering
Associate Professor	TSUKAHARA, Takehiko	Analytical Chemistry of Radionuclides (Actinide etc.), Nuclear Fuel Cycle, Radioactive Waste Management, Micro-Nano Fluidics, Green Chemistry, Nanomaterials		Nuclear Engineering

(5) Dept. of Transdisciplinary Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	CHIBA, Satoshi	Nuclear Reactions, Nuclear Decay, Nuclear Data, Radiation Transport, Innovative Nuclear Systems, Medical and Astrophysical Applications		Nuclear Engineering
Professor	IIO, Shunji	Plasma Physics, Fusion Engineering, Laser Diagnostics		Nuclear Engineering
Professor	KATO, Yukitaka	Energy Conversion, Energy Storage, Chemical Heat Pump, Carbon Recycling Energy System, Hydrogen Energy, Nuclear Energy Utilization System		Nuclear Engineering
Professor	OBARA, Toru	Reactor Physics, Nuclear Reactor Design, Innovative Nuclear Energy Systems, Nuclear Safety		Nuclear Engineering
Professor	OGURI, Yoshiyuki	Heavy-Ion Inertial Fusion, Accelerator-based Environmental and Medical Sciences		Nuclear Engineering
Professor	TAKESHITA, Kenji	Nuclear Chemical Engineering, Nuclear Fuel Cycle, Fuel Reprocessing, Nuclide Separation (MA, Cs, Sr, Tc, PGM), Isotope Separation, Metal Recycling		<ul style="list-style-type: none"> • Nuclear Engineering • Global Engineering for Development, Environment and Society
Professor	OHNUKI, Toshihiko	Nuclear Waste Disposal, Environmental Remediation, Environmental Actinides Chemistry, Biotransformation of Metal Ions, Mineral Alteration, Reactive Transport Modeling		Nuclear Engineering
Associate Professor	AKATSUKA, Hiroshi	Plasma Diagnostics, plasma Spectroscopy, Laser Engineering, Atomic and Molecular Processes in Plasmas		Nuclear Engineering
Associate Professor	HAYASHIZAKI, Noriyosu	Accelerator Physics and Engineering, Security of Radioactive Sources		Nuclear Engineering

Associate Professor	KIKURA, Hiroshige	Nuclear Reactor Safety, Process Control and Measurement System, Thermal Hydraulics, Safe Transport of Radioactive Material		Nuclear Engineering
Associate Professor	MATSUMOTO, Yoshihisa	Radiation Biology, Molecular Biology and Biochemistry, Cancer Radiotherapy, DNA Damage/Repair, Low Dose/Low Dose Rate Radiation		Nuclear Engineering
Associate Professor	SAGARA, Hiroshi	Nuclear safety, security and non-proliferation (3S), Reactor design for high-level-waste transmutation, Non-destructive assay technology		Nuclear Engineering
Associate Professor	TAKAO, Koichiro	Nuclear Fuel Cycle, Actinide Chemistry, Ionic Liquid, Treatment and Disposal of Radioactive Wastes, Decontamination, Complex Catalyst, Separation of Nuclides, Reactor Hydrochemistry		Nuclear Engineering
Associate Professor	TSUKAHARA, Takehiko	Analytical Chemistry of Radionuclides (Actinide etc.), Nuclear Fuel Cycle, Radioactive Waste Management, Micro-Nano Fluidics, Green Chemistry, Nanomaterials		Nuclear Engineering
Associate Professor	TSUTSUI, Hiroaki	Plasma Physics and Nuclear Fusion, Superconducting Magnetic Energy Storage system		Nuclear Engineering
Associate Professor	YOSHIDA, Katsumi	Severe environment resistant materials, Materials for nuclear and fusion applications, Ceramic-based composites, High performance porous ceramics		<ul style="list-style-type: none"> • Nuclear Engineering • Materials Science and Engineering
Associate Professor	KATABUCHI, Tatsuya	Neutron Science, Nuclear Physics, Nuclear Transmutation, Neutron Capture Therapy, Radiation Measurement		Nuclear Engineering

Infrastructure Metallic Materials Course
(1)Dept. of Materials Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	FUJII, Toshiyuki	Crystallography of Microstructures		Materials Science and Engineering
Professor	HOSODA, Hideki	Materials Design, Shape Memory Alloys, Intermetallic Compounds		• Materials Science and Engineering • Energy Science and Engineering
Professor	KAJIHARA, Masanori	Thermodynamics and Kinetics		Materials Science and Engineering
Professor	KOBAYASHI, Yoshinao	Thermodynamics of High Temperature Reactions, Metal Refining, Recycling Process		• Nuclear Engineering • Materials Science and Engineering
Professor	KUMAI, Shinji	Mechanical Metallurgy, Fatigue, Joining and Solidification		Materials Science and Engineering
Professor	NAKAMURA, Yoshio	Applied Diffraction Crystallography, Nano-Structured Materials		Materials Science and Engineering
Professor	NISHIKATA, Atsushi	Metallurgical Electrochemistry, High Temperature Electrochemistry, Corrosion		Materials Science and Engineering
Professor	ONAKA, Susumu	Mechanical Properties of Materials		Materials Science and Engineering
Professor	SHI, Ji	Physical Properties of Metals, Magnetic Thin Films		• Energy Science and Engineering • Materials Science and Engineering
Professor	SUSA, Masahiro	Physical Chemistry of Metals, Materials Metrology		• Energy Science and Engineering • Materials Science and Engineering
Professor	TAKEYAMA, Masao	Physical Metallurgy of Intermetallic and Ferrous Materials, Phase Transformations of Alloys, Deformation in Solid		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	GOHDA, Yoshihiro	Surface and Interface Physics (Theoretical Calculations)		Materials Science and Engineering
Associate Professor	HAYASHI, Miyuki	Thermophysical Properties of Materials, High Temperature Process Control		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	INAMURA, Tomonari	Shape Memory Alloy, Crystallography of Phase Transformation		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	KAWAMURA, Kenichi	High Temperature Physical Chemistry, Solid State Ionics		Materials Science and Engineering
Associate Professor	KIMURA, Yoshisato	Microstructure Control and Characterization of Intermetallic Alloys		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	KOBAYASHI, Equo	Physical Metallurgy of Non-ferrous Metals and Intermetallics, Design and Evaluation of Biomedical Materials		• Materials Science and Engineering
Associate Professor	KOBAYASHI, Satoru	Phase diagrams and phase transformations in alloys, Physical metallurgy of ferrous alloys, Heat resistant steels and alloys		Materials Science and Engineering
Associate Professor	MURAISHI, Shinji	Micromechanics, Nanostructured Material, Crystal Defects		Materials Science and Engineering
Associate Professor	NAKADA, Nobuo	Microstructure and Mechanical Properties of Iron and Steels		Materials Science and Engineering
Associate Professor	NAKATSUJI, Kan	Surface and Interface Physics		Materials Science and Engineering
Associate Professor	SANNOMIYA, Takumi	Functional Nanomaterials, Plasmonics, Electron Microscopy		Materials Science and Engineering
Associate Professor	SONE, Masato	Micro/Nano Materials Engineering & Science		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	TADA, Eiji	Corrosion and Environmental Degradation of Materials		Materials Science and Engineering
Associate Professor	TERADA, Yoshihiro	Microstructure Control, Mechanical Properties, Heat-Resistant Materials		Materials Science and Engineering
Associate Professor	UEDA, Mitsutoshi	High Temperature Oxidation of Metals, Defect Chemistry in Oxides, Physical Chemistry at High Temperature		• Energy Science and Engineering • Materials Science and Engineering

Mechanical and Production Engineering Course
(1)Dept. of Mechanical Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	HANAMURA, Katsunori	Environmental Thermal Engineering		•Energy Science and Engineering •Mechanical Engineering
Professor	HIRAI, Shuichiro	Global Environment Engineering		•Mechanical Engineering •Energy Science and Engineering
Professor	HIRATA, Atsushi	Surface Engineering		Mechanical Engineering
Professor	INOUE, Hirotsugu	Mechanics of Materials, Non-destructive Testing		Mechanical Engineering
Professor	INOUE, Takayoshi	Thermal Engineering, Microscale Thermal Engineering		•Mechanical Engineering •Energy Science and Engineering
Professor	IWATSUKI, Nobuyuki	Human Friendly Systems, Silent Engineering		•Mechanical Engineering •Engineering Sciences and Design
Professor	KOSAKA, Hidenori	Thermodynamics, Fluid Dynamics, Internal Combustion Engine		•Mechanical Engineering •Energy Science and Engineering
Professor	MATUNAGA, Saburo	Space Systems Engineering, Space Robotics, Small Satellite		•Mechanical Engineering •Engineering Sciences and Design
Professor	NOZAKI, Tomohiro	Plasma Materials Science, Reaction Engineering, Thermal Engineering		•Energy Science and Engineering •Mechanical Engineering
Professor	OHTAKE, Naoto	Manufacturing Science and Technology		•Mechanical Engineering •Engineering Sciences and Design
Professor	OKADA, Masafumi	Robotics, Control Engineering		•Engineering Sciences and Design •Mechanical Engineering
Professor	OKUMA, Masaaki	Structural Dynamics, Acoustics, Optimum Design, CAE		•Mechanical Engineering •Engineering Sciences and Design
Professor	SATOH, Isao	Energy Applications		•Mechanical Engineering •Energy Science and Engineering
Professor	SUZUMORI, Koichi	Robotics, Elastic Mechanism, New Actuator		Mechanical Engineering
Professor	TAKAHARA, Hiroki	Structural Dynamics		Mechanical Engineering
Professor	TAKEDA, Yukio	Mechanical Systems Design		•Mechanical Engineering •Engineering Sciences and Design
Professor	TANAHASHI, Mamoru	Fluid Dynamics, Heat and Mass Transfer, Combustion		•Energy Science and Engineering •Mechanical Engineering
Professor	TODOROKI, Akira	Solids and Structures Engineering		Mechanical Engineering
Professor	YAMAURA, Hiroshi	Mechatronics, Dynamics, Control		Mechanical Engineering
Professor	YOSHINO, Masahiko	Nano/micro Manufacturing		Mechanical Engineering
Associate Professor	AKASAKA, Hiroki	Synthesis and Evaluation of Inorganic Carbon Materials		•Mechanical Engineering •Engineering Sciences and Design
Associate Professor	ENDO, Gen	Robotics, Mechatronics and Mechanical Design		•Mechanical Engineering •Engineering Sciences and Design •Human Centered Science and Biomedical Engineering
Associate Professor	FUSHINOBU, Kazuyoshi	Energy Phenomena		•Mechanical Engineering •Energy Science and Engineering
Associate Professor	HIJIKATA, Wataru	Electromagnetic Actuator, Medical Device, In Vivo Energy Harvestng, Wireless Power Transmission		•Engineering Sciences and Design •Mechanical Engineering
Associate Professor	INABA, Kazuaki	Continuum Mechanics		•Engineering Sciences and Design •Mechanical Engineering
Associate Professor	MIZUTANI, Yoshihiro	Structural Reliability Engineering, Non-destructive Testing		•Mechanical Engineering •Engineering Sciences and Design
Associate Professor	MOUGENOT, Celine	Design Engineering		•Engineering Sciences and Design •Mechanical Engineering
Associate Professor	MURAKAMI, Yoichi	Molecular-Scale Energy and Thermal Engineering		•Mechanical Engineering •Energy Science and Engineering
Associate Professor	NAKANO, Yutaka	Vibration Engineering		Mechanical Engineering
Associate Professor	OKAWA, Seiji	Thermal Science and Engineering		•Energy Science and Engineering •Mechanical Engineering
Associate Professor	OSHIMA, Shuzo	Fluid Science and Engineering		•Mechanical Engineering •Energy Science and Engineering

Associate Professor	SAITO, Shigeki	Micromechanics, Micro Robotics		•Engineering Sciences and Design •Mechanical Engineering
Associate Professor	SAITO, Takushi	Laser Processing, Materials Processing		•Mechanical Engineering, •Energy Science and Engineering
Associate Professor	SAKAGUCHI, Motoki	Mechanics and Strength of Materials		Mechanical Engineering
Associate Professor	SAKAMOTO, Hiraku	Space Structures, Dynamics, Numerical Analysis		•Engineering Sciences and Design •Mechanical Engineering
Associate Professor	SASABE, Takashi	Advanced energy engineering		•Mechanical Engineering •Energy Science and Engineering
Associate Professor	SATO, Susumu	Thermodynamics, Combustion Reaction, Exhaust Emission, Alternative Fuel		•Mechanical Engineering •Energy Science and Engineering
Associate Professor	SHIMURA, Masayasu	Fluid Dynamics, Heat and Mass Transfer, Combustion, Combustion Control		•Energy Science and Engineering •Mechanical Engineering
Associate Professor	SUGAHARA, Yusuke	Robotics, Design and Control of Mechanisms and Systems, Aero-train: Aerodynamically Levitated Train System		•Mechanical Engineering •Engineering Sciences and Design
Associate Professor	TANAKA, Hiroto	Animal Flight and Swimming, Flapping-wing Aerial Robots, Micro Fabrication, Fluid Dynamics		Mechanical Engineering
Associate Professor	YAGI, Touru	Biomedical Engineering, Neural Engineering, Human Interface, Robotics and System Engineering		•Human Centered Science and Biomedical Engineering •Engineering Sciences and Design
Associate Professor	YAMAMOTO, Takatoki	Bionanotechnology, Micro TAS		•Mechanical Engineering •Human Centered Science and Biomedical Engineering
Associate Professor	YAMAZAKI, Takahisa	Materials for Space Use, Advanced Joining and Surface Coating		•Mechanical Engineering •Engineering Sciences and Design
Associate Professor	YOSHIDA, Takako	Applied Brain Science		•Mechanical Engineering •Human Centered Science and Biomedical Engineering
Associate Professor	YOSHIOKA, Hayato	Ultraprecision Mechanical System		•Mechanical Engineering •Engineering Sciences and Design

(2)Dept. of Systems and Control Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	FUJITA, Masayuki	Systems and Control		Systems and Control Engineering
Professor	HACHIYA, Hiroyuki	Ultrasonic Measurements, Acoustic Imaging		Systems and Control Engineering
Professor	HIRATA, Atsushi	Surface Engineering		Systems and Control Engineering
Professor	KOSAKA, Hidenori	Thermodynamics, Fluid Dynamics, Internal Combustion Engine		Systems and Control Engineering
Professor	KURABAYASHI, Daisuke	Biorobotic systems, Distributed systems, Motion planning		•Systems and Control Engineering •Engineering Sciences and Design
Professor	OKUTOMI, Masatoshi	Computer Vision, Image Processing		Systems and Control Engineering
Professor	SAMPEI, Mitsuji	Control Theory		•Systems and Control Engineering •Engineering Sciences and Design
Associate Professor	HATANAKA, Takeshi	Control of network systems		Systems and Control Engineering
Associate Professor	OHYAMA, Shinji	Measurement Science		Systems and Control Engineering
Associate Professor	SATO, Susumu	Thermodynamics, Combustion Reaction, Exhaust Emission, Alternative Fuel		Systems and Control Engineering
Associate Professor	TANAKA, Masayuki	Computational photography, Image processing		Systems and Control Engineering
Associate Professor	TSUKAGOSHI, Hideyuki	Search and rescue robot, Fluid powered robot, Medical actuator		Systems and Control Engineering
Associate Professor	YAMAKITA, Masaki	Control Engineering, Robotics		•Systems and Control Engineering •Engineering Sciences and Design

(3)Dept. of Materials Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	CROSS, Jeffrey Scott	Biomass Engineering, Educational Technology (MOOC)		•Materials Science and Engineering •Energy Science and Engineering

(4)Dept. of Transdisciplinary Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	CROSS, Jeffrey Scott	Biomass Engineering, Educational Technology (MOOC)		•Energy Science and Engineering •Global Engineering for Development, Environment and Society •Engineering Sciences and Design
Associate Professor	FUSHINOBU, Kazuyoshi	Energy Phenomena		•Energy Science and Engineering
Associate Professor	INABA, Kazuaki	Continuum Mechanics		•Engineering Sciences and Design
Associate Professor	MOUGENOT, Celine	Design Engineering		•Engineering Sciences and Design
Associate Professor	OSHIMA, Shuzo	Fluid Science and Engineering		•Energy Science and Engineering
Associate Professor	SAITO, Shigeki	Micromechanics, Micro Robotics		•Engineering Sciences and Design

Information and Communication Technology Course
(1)Dept. of Electrical and Electronic Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	ARAI, Shigehisa	Semiconductor Optical Devices, Opto- and Quantum electronics, Optical Communication		Electrical and Electronic Engineering
Professor	CHIBA, Akira	Drive Electronics, Power Mechatronics, Intelligent Drive		• Electrical and Electronic Engineering • Energy Science and Engineering
Professor	HATANO, Mutsuko	Applied Physics, Electron Devices, Electronic Materials		• Electrical and Electronic Engineering • Energy Science and Engineering
Professor	HIROKAWA, Jiro	Antennas, Electromagnetic Wave Theory		Electrical and Electronic Engineering
Professor	MATSUZAWA, Akira	Integrated Circuits, Mixed Signal LSI Design		Electrical and Electronic Engineering
Professor	MIYAMOTO, Yasuyuki	Semiconductor Process/Devices		Electrical and Electronic Engineering
Professor	MIZUMOTO, Tetsuya	Photonic Circuits, Integrated Optics		Electrical and Electronic Engineering
Professor	NAKAGAWA, Shigeki	Information Storage Devices, Spintronics, Magnetic Materials		Electrical and Electronic Engineering
Professor	NANAHARA, Toshiya	Power Systems, Renewable energy		• Electrical and Electronic Engineering • Energy Science and Engineering
Professor	YAMADA, Akira	Semiconductor Physics, Solar Cells, Compound Thin-Film Solar Cells		• Electrical and Electronic Engineering • Energy Science and Engineering
Professor	YASUOKA, Koichi	Plasma Engineering, Electric Power Engineering		• Electrical and Electronic Engineering • Energy Science and Engineering
Associate Professor	AOYAGI, Takahiro	Electromagnetic Compatibility, Wave Propagation		Electrical and Electronic Engineering
Associate Professor	FUJITA, Hideaki	Power Electronics, Electrical Machinery		• Electrical and Electronic Engineering • Energy Science and Engineering
Associate Professor	HAGIWARA, Makoto	Power Electronics, Smart Grid, Renewable Energy		• Electrical and Electronic Engineering • Energy Science and Engineering
Associate Professor	KAWANO, Yukio	Nano Electronics and Mechanics, Solid-State Physics and Engineering		Electrical and Electronic Engineering
Associate Professor	KODERA, Tetsuo	Electron Devices, Power Devices, Sensing Devices		• Electrical and Electronic Engineering • Energy Science and Engineering
Associate Professor	MANAKA, Takaaki	Organic Devices, Nonlinear Optics		Electrical and Electronic Engineering
Associate Professor	MIYAJIMA, Shinsuke	Semiconductor Materials and Devices, Solar Cells, Thin-Film Solar Cells		• Electrical and Electronic Engineering • Energy Science and Engineering
Associate Professor	NISHIYAMA, Nobuhiko	Optical Circuits, Semiconductor Optical Devices, Optical Transmission Systems		Electrical and Electronic Engineering
Associate Professor	OKADA, Kenichi	Wireless Circuit Design, Analog Circuit Design		Electrical and Electronic Engineering
Associate Professor	PHAM, Nam Hai	Semiconductor Spintronic Materials, Magnetic Semiconductors, Spintronic Devices		Electrical and Electronic Engineering
Associate Professor	SHOJI, Yuya	Photonic Circuits, Optical Communication		Electrical and Electronic Engineering
Associate Professor	SUZUKI, Safumi	Ultra High-Speed Electronic Devices, Terahertz Wireless Communication		Electrical and Electronic Engineering
Associate Professor	TAKEUCHI, Nozomi	Applications of Plasma on Gas-Liquid Interface Electrohydrodynamics and its Applications		• Electrical and Electronic Engineering • Energy Science and Engineering

(2)Dept. of Information and Communications Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	FUKAWA, Kazuhiko	Mobile Communications, Signal Processing, Adaptive Filter Theory		Information and Communications Engineering
Professor	ISSHIKI, Tsuyoshi	System-LSI Design Methodology, Embedded Processor Design		Information and Communications Engineering
Professor	OGATA, Wakaha	Information Security, Cryptography		Information and Communications Engineering
Professor	TAKAGI, Shigetaka	Integrated Circuits, Circuit Theory		Information and Communications Engineering
Professor	TAKAHASHI, Atsushi	VLSI CAD, Physical Design, Synchronous Circuits		Information and Communications Engineering
Professor	UENO, Shuichi	Theory of Parallel, VLSI and Quantum Computation		Information and Communications Engineering

Professor	UYEMATSU, Tomohiko	Information Theory, Coding Theory		Information and Communications Engineering
Professor	YAMADA, Isao	Signal Processing, Optimization Theory, Inverse Problems		Information and Communications Engineering
Associate Professor	HARA, Yuko	Hardware/Software Co-design, Reliable Embedded Systems		Information and Communications Engineering
Associate Professor	KASAI, Kenta	Coding Theory, LDPC Codes, Spatially Coupled Codes		Information and Communications Engineering
Associate Professor	MATSUMOTO, Ryutaroh	Quantum Information Theory, Coding Theory		Information and Communications Engineering
Associate Professor	NAKAHARA, Hiroki	FPGA, Reconfigurable Architecture, Radio Telescope, Machine Learning		Information and Communications Engineering
Associate Professor	YAMAOKA, Katsunori	Information and Communication Network		Information and Communications Engineering

Advanced Materials and Chemicals Processing Course
(1)Dept. of Materials Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	KIKUTANI, Takeshi	Fiber and Polymer Processing, Physical Properties of Polymers		Materials Science and Engineering
Professor	MIYAUCHI, Masahiro	Photo-electrochemistry, Photocatalysis, Chemical Synthesis of Nanoparticles		• Materials Science and Engineering • Energy Science and Engineering
Professor	MORI, Takehiko	Physical Chemistry of Organic Materials		• Energy Science and Engineering • Materials Science and Engineering
Professor	MORIKAWA, Junko	Polymer Processing, Thermal Properties of Polymers		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Professor	NAKAJIMA, Akira	Environmental Ceramics, Surface Functional Materials		Materials Science and Engineering
Professor	OUCHI, Yukio	Physical Chemistry of Organic Materials		Materials Science and Engineering
Professor	OUGIZAWA, Toshiaki	Physical Chemistry of Polymeric Materials		Materials Science and Engineering
Professor	TEZUKA, Yasuyuki	Synthetic Polymer Chemistry		Materials Science and Engineering
Professor	TSURUMI, Takaaki	Dielectrics and Energy Storage Capacitors		Materials Science and Engineering
Professor	VACHA, Martin	Optical Properties of Organic Materials		Materials Science and Engineering
Professor	YANO, Tetsuji	Inorganic Glasses, Ion-Dynamics and Optical Properties		Materials Science and Engineering
Associate Professor	ASAI, Shigeo	Physical Properties of Organic Materials, Polymer Composites		Materials Science and Engineering
Associate Professor	HAYAKAWA, Teruaki	Polymer Synthesis, Self-Organizing Polymeric Materials		Materials Science and Engineering
Associate Professor	HAYAMIZU, Yuhei	Bio-interface, Nano Materials		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	IKOMA, Toshiyuki	Bioceramics, Biosensing, Nanomedicine, Tissue Engineering		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	ISHIKAWA, Ken	Optical and Electrical Properties of Organic Materials		Materials Science and Engineering
Associate Professor	MATSUMOTO, Hidetoshi	Nano-micro Fabrication, Energy Conversion Materials		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	MATSUSHITA, Nobuhiro	Novel Processes for Electronic, Energy and Biomedical Materials		Materials Science and Engineering
Associate Professor	MATSUSHITA, Sachiko	Thermoelectronics, Plasmonics, Fabrication of Nanostructures		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	MICHINOBU, Tsuyoshi	Polymer Synthesis, Semiconducting Polymers		Materials Science and Engineering
Associate Professor	SHIOYA, Masatoshi	Polymer Composites, Mechanical Properties, Carbon Materials		Materials Science and Engineering
Associate Professor	TAKEDA, Hiroaki	Electroceramics, Crystal Growth of Functional materials		• Materials Science and Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	YASUDA, Kouichi	Engineering Ceramics and Composites, Micromechanics, Fracture Statistics		• Materials Science and Engineering • Energy Science and Engineering

(2)Dept. of Chemical Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	IHARA, Manabu	Energy Conversion, Energy System, Electrochemistry, Thermodynamics		• Energy Science and Engineering • Chemical Science and Engineering
Professor	ISHIZONE, Takashi	Polymer Synthesis, Living Polymerization		Chemical Science and Engineering
Professor	ITO, Akira	Separation Processes, Membrane separation		• Chemical Science and Engineering • Energy Science and Engineering
Professor	KUBOUCHI, Masatoshi	Polymeric Materials for Chemical Plant, Composite Materials, Material Science		Chemical Science and Engineering
Professor	OKOCHI, Mina	Biotechnology, Biochemical Engineering, Peptide Engineering		Chemical Science and Engineering
Professor	OTSUKA, Hideyuki	Polymer Reactions, Smart Polymeric Materials, Polymer Synthesis		Chemical Science and Engineering

Professor	SEKIGUCHI, Hidetoshi	Plasma Processing, Thermo-chemical Engineering		<ul style="list-style-type: none"> • Chemical Science and Engineering • Energy Science and Engineering
Professor	SERIZAWA, Takeshi	Biomacromolecular Chemistry, Biomaterials Science and Engineering, Molecular Assembly		Chemical Science and Engineering
Professor	TAGO, Teruoki	Chemical Reaction Engineering, Catalytic Reaction Engineering, Catalyst & Environmental Chemical Process		<ul style="list-style-type: none"> • Chemical Science and Engineering • Energy Science and Engineering
Professor	TAKATA, Toshikazu	Supramolecular Chemistry, Synthetic Polymer Chemistry		Chemical Science and Engineering
Associate Professor	AOKI, Saiko	Tribology, Surface Engineering		<ul style="list-style-type: none"> • Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	FUCHINO, Tetsuo	Process Systems Engineering, Product Management		Chemical Science and Engineering
Associate Professor	KONISHI, Gen-ichi	Polymer Synthesis, Photochemistry		Chemical Science and Engineering
Associate Professor	MORI, Shinsuke	Plasma Processing, Heat Transfer		<ul style="list-style-type: none"> • Chemical Science and Engineering • Energy Science and Engineering
Adjunct Associate Professor	OOKAWARA, Shinichi	Microfluidic Transport Phenomena, CFD (Computational Fluid Dynamics), Microreactor		Chemical Science and Engineering
Associate Professor	SAITO, Reiko	Polymer Synthesis, Template Polymerization, Organic-inorganic Composites		<ul style="list-style-type: none"> • Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	SHIMOYAMA, Yusuke	Thermodynamic property, Mass transfer		<ul style="list-style-type: none"> • Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	TANIGUCHI, Izumi	Aerosol Science and Technology, Fine Powder Engineering		<ul style="list-style-type: none"> • Chemical Science and Engineering • Energy Science and Engineering
Associate Professor	YOSHIKAWA, Shiro	Fluid Dynamics, Transport Phenomena		Chemical Science and Engineering

Postgraduate Program for Multinational Architects in Conjunction with Engineering and Urban Design

Architecture Design Course

(1)Dept. of Architecture and Building Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	YASUDA, Koichi	Architectural Design		Architecture and Building Engineering Engineering Sciences and Design
Professor	OKUYAMA, Shin-ichi	Architectural Design		Architecture and Building Engineering Urban Design and Built Environment
Professor	TSUKAMOTO, Yoshiharu	Architectural Design and Urban Research		Architecture and Building Engineering
Associate Professor	MURATA, Ryo	Architectural Design		Architecture and Building Engineering Engineering Sciences and Design
Associate Professor	SHIOZAKI, Taisin	Architectural Design		Architecture and Building Engineering
Associate Professor	NASU, Satoshi	Architectural Design and Theory Public Space and Community Design		Urban Design and Built Environment
Associate Professor	YAMAZAKI, Taisuke	History of Architecture Architectural Design		Architecture and Building Engineering
Associate Professor	FUJITA, Yasuhito	History of Architecture and Cities		Urban Design and Built Environment
Professor	TAKEUCHI, Toru	Steel Structure, Structural design, Seismic Control		Architecture and Building Engineering
Professor	SAKATA, Hiroyasu	Concrete Structure, Timber Structure		Architecture and Building Engineering Urban Design and Built Environment
Professor	FUJII, Haruyuki	Design Science, Architectural Planning and Environmental Design Theories		Engineering Sciences and Design Architecture and Building Engineering
Associate Professor	SAIO, Naoko	Architectural Planning Urban and Rural Planning		Architecture and Building Engineering
Professor	OSARAGI, Toshihiro	Spatial Analysis and Planning Spatial Information Science		Architecture and Building Engineering Urban Design and Built Environment
Professor	YOKOYAMA, Yutaka	Building Materials		Architecture and Building Engineering
Associate Professor	HOTTA, Hisato	Composite Structure		Architecture and Building Engineering
Associate Professor	IKARASHI, Kikuo	Steel Structures		Architecture and Building Engineering
Associate Professor	KAGI, Naoki	Environmental Engineering Air Quality		Architecture and Building Engineering
Associate Professor	MIKAMI, Takamasa	Performance Evaluation of Building Elements and Materials		Architecture and Building Engineering
Associate Professor	TAMURA, Shuji	Geotechnical Earthquake Engineering		Architecture and Building Engineering
Associate Professor	YUASA, Kazuhiro	Environmental Engineering Building Services		Architecture and Building Engineering Engineering Sciences and Design

International Graduate Program for Bioscience and Biotechnology

School of Life Science and Technology Dept. of Life Science and Technology

ACADEMIC SUPERVISOR		RESEARCH FIELD	MAJOR
Professor	FUKUI, Toshiaki	Genetic Engineering, Metabolic Engineering, Extremophiles	Life Science and Technology
Professor	HONGO, Yuichi	Molecular Microbial Ecology	Life Science and Technology
Professor	ICHINOSE, Hiroshi	Neurochemistry, Molecular Biology, Neuroscience	•Life Science and Technology •Human Centered Science and Biomedical Engineering
Professor	ITOH, Takehiko	Bioinformatics	Life Science and Technology
Professor	IWASAKI, Hiroshi	Molecular Genetics and Molecular Biology	Life Science and Technology
Professor	KAJIWARA, Susumu	Molecular Biology, Microbial Infection, Biotechnology, Genome Editing	•Human Centered Science and Biomedical Engineering •Life Science and Technology
Professor	KIMURA, Hiroshi	Epigenetics and Cell Biology	Life Science and Technology
Professor	KINBARA, Kazushi	Bioinspired Synthetic Chemistry	Life Science and Technology
Professor	KOMADA, Masayuki	Medical Cell Biology and Biochemistry	Life Science and Technology
Professor	KONDOH, Shinae	In Vivo Imaging, Cancer Biology, Drug Development	•Human Centered Science and Biomedical Engineering •Life Science and Technology
Professor	KUME, Shoen	Stem Cell Biology, Regenerative Medicine	Life Science and Technology
Professor	MARUYAMA, Atsushi	Biomaterials, Bioconjugates, Biofunctional Polymers	•Life Science and Technology •Human Centered Science and Biomedical Engineering
Professor	MIHARA, Hisakazu	Bioorganic Chemistry and Peptide Chemistry	•Life Science and Technology •Human Centered Science and Biomedical Engineering
Professor	MURAKAMI, Satoshi	Structural Biology, Protein Crystallography	Life Science and Technology
Professor	OHTA, Hiroyuki	Plant Molecular Biology	Life Science and Technology
Professor	TAGUCHI, Hideki	Biophysical Chemistry, Protein Folding	Life Science and Technology
Professor	TOKUNAGA, Makio	Single Molecule Biology, Immune Cell Signaling, Molecular Systems Biology	Life Science and Technology
Professor	UENO, Takafumi	Bioinorganic Chemistry, Biophysical Chemistry, Biosupramolecular Chemistry	Life Science and Technology
Professor	URABE, Hirokazu,	Organic Synthesis, Asymmetric Synthesis	Life Science and Technology
Professor	WACHI, Masaaki	Applied Microbiology	Life Science and Technology
Professor	YAMAGUCHI, Yuki	Control of Gene Expression	Life Science and Technology
Professor	YUASA, Hideya	Bioorganic Chemistry	•Life Science and Technology •Human Centered Science and Biomedical Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	MAJOR
Associate Professor	AIZAWA, Yasunori	Cellular Genomics	Life Science and Technology
Associate Professor	ASAKURA, Noriyuki	Bioinorganic Chemistry, Biological Electron Transfer	Life Science and Technology
Associate Professor	HATA, Takeshi	Organic Synthesis, Asymmetric Synthesis	Life Science and Technology
Associate Professor	HAYASHI, Nobuhiro	Molecular Biology and Proteomics	•Life Science and Technology •Human Centered Science and Biomedical Engineering
Associate Professor	HIRASAWA, Takashi	Molecular Microbiology and Metabolic Engineering	Life Science and Technology
Associate Professor	HIROTA, Junji,	Molecular Neuroscience	Life Science and Technology
Associate Professor	KAJIKAWA, Masaki	Molecular Biology	Life Science and Technology
Associate Professor	KAMACHI, Toshiaki	Bioinorganic chemistry, Cellular imaging of oxygen	•Life Science and Technology •Human Centered Science and Biomedical Engineering
Associate Professor	KATO, Akira	Epithelial Transport, Animal Physiology	Life Science and Technology
Associate Professor	KAWAKAMI, Atsushi	Developmental Genetics, Regenerative Biology	Life Science and Technology
Associate Professor	KOTERA, Masaaki	Chemical Bioinformatics	Life Science and Technology
Associate Professor	MASUDA, Shinji	Plant Molecular Biology and Photobiology	Life Science and Technology
Associate Professor	MATSUDA, Tomoko	Bioorganic Chemistry, Biocatalysis, Green Chemistry	Life Science and Technology
Associate Professor	MORI, Toshiaki	Bioorganic Chemistry, Polymer Chemistry	•Human Centered Science and Biomedical Engineering •Life Science and Technology
Associate Professor	NAKAMURA, Nobuhiro	Molecular Cell Biology	Life Science and Technology
Associate Professor	NAKATOGAWA, Hitoshi	Molecular Biology and Biochemistry	Life Science and Technology
Associate Professor	NIKAIDO, Masato	Molecular Evolutionary Biology	Life Science and Technology
Associate Professor	OGURA, Shun-ichiro	Molecular Biology, Alternative Therapy for Tumor, Biometabolic Engineering, Biomarker	•Human Centered Science and Biomedical Engineering •Life Science and Technology
Associate Professor	OHKUBO, Akihiro	Bioorganic Chemistry	Life Science and Technology
Associate Professor	OSADA, Toshiya	Neuroscience	Life Science and Technology
Associate Professor	SEIO, Kohji	Bioorganic Chemistry	•Life Science and Technology •Human Centered Science and Biomedical Engineering
Associate Professor	SHIMOJIMA, Mie	Plant Molecular Biology and Biochemistry	Life Science and Technology
Associate Professor	SHIRAKI, Nobuaki	Stem Cell Biology	Life Science and Technology
Associate Professor	SUZUKI, Takashi	Molecular Neurobiology	Life Science and Technology
Associate Professor	TACHIBANA, Kazunori	Cell and Developmental Biology	Life Science and Technology
Associate Professor	TAGAWA, Yoh-ichi	Developmental Engineering, Molecular Biology, Artificial Organ, Immunology	Life Science and Technology
Associate Professor	TANAKA, Mikiko	Developmental Biology	Life Science and Technology

ACADEMIC SUPERVISOR		RESEARCH FIELD	MAJOR
Associate Professor	TSUTSUMI, Hiroshi	Chemical Biology	Life Science and Technology
Associate Professor	YAMADA, Takuji	Genome Science and Bioinformatics	Life Science and Technology
Associate Professor	YATSUNAMI, Rie	Metabolic Engineering, Protein Engineering and Genetic Engineering	Life Science and Technology

International Program for Interdisciplinary Science and Engineering

Advanced Course of Materials Science and Engineering

(1)Dept. of Physics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	HIRAYAMA, Hiroyuki	Surface and Interface Physics		Physics

(2)Dept. of Materials Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	AZUMA, Masaki	Solid State Chemistry		Materials Science and Engineering
Professor	FUNAKUBO, Hiroshi	Materials Science, Thin Film Devices		Materials Science and Engineering
Professor	HARA, Michikazu	Catalysis, Surface Science		• Materials Science and Engineering • Energy Science and Engineering
Professor	HOSODA, Hideki	Shape Memory Alloys, Intermetallics		• Materials Science and Engineering • Energy Science and Engineering
Professor	HOSONO, Hideo	Electronic Materials, Superconductors, Oxide Semiconductors, Organic LED		Materials Science and Engineering
Professor	ITOH, Mitsuru	Inorganic Solid-State Chemistry		Materials Science and Engineering
Professor	KAJIHARA, Masanori	Thermodynamics and Kinetics of Phase Transformations		Materials Science and Engineering
Professor	KAMIYA, Toshio	Semiconductors, Optoelectronic Devices, Computer simulation		Materials Science and Engineering
Professor	KAWAJI, Hitoshi	Physical Chemistry of Materials, Phase Transition		Materials Science and Engineering
Professor	KITAMOTO, Yoshitaka	Nanoparticles, Magnetic Materials and Devices, Spintronics		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Professor	MAJIMA, Yutaka	Nanoscale Materials, Molecular Devices, Scanning Probe Microscopy		Materials Science and Engineering
Professor	OBA, Fumiyasu	Computational Design of Electronic and Energy Materials		Materials Science and Engineering
Professor	ONAKA, Susumu	Mechanical Properties of Materials		Materials Science and Engineering
Professor	WAKAI, Fumihiko	Mechanical Properties of Ceramic Materials		• Materials Science and Engineering • Energy Science and Engineering
Professor	YOSHIMOTO, Mamoru	Oxide Nano-Engineering, Device, Solar cell		• Energy Science and Engineering • Materials Science and Engineering
Adjunct Professor	ABE, Hideki	Polymer Chemistry		Human Centered Science and Biomedical Engineering
Associate Professor	GOHDA Yoshihiro	Surface and Interface Physics (Theoretical Calculations)		Materials Science and Engineering
Adjunct Professor	SAKATA, Osami	Materials Analysis using Synchrotron Radiation, Functional thin films, Surfaces, Nano-particles		Energy Science and Engineering
Associate Professor	HAYASHI, Tomohiro	Nanoscience & Nanotechnology, Surface & Interface Science, Scanning Probe Microscopy, Nanophotonics		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Associate Professor	HIRAMATSU, Hidenori	Superconducting Materials and Devices		Materials Science and Engineering
Associate Professor	INAMURA, Tomonari	Shape Memory Alloys, Intermetallics		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	KAMATA, Keigo	Catalytic Chemistry, Environment-Friendly Chemical Process		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	KIMURA, Yoshisato	Heat Resistant Alloys and Thermoelectric Materials Design based on Phase Equilibria and Microstructure		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	KITANO, Masaaki	Heterogeneous Catalyst, Ammonia Synthesis, Acid Base Catalyst		Materials Science and Engineering
Associate Professor	MATSUDA, Akifumi	Thin Films and Nanomaterials for Energy Harvesting Devices		• Energy Science and Engineering • Materials Science and Engineering
Associate Professor	MATSUISHI, Satoru	Synthesis and Characterization of Superconducting and Electro-active Materials		Materials Science and Engineering

Associate Professor	NAGAI, Keiji	Energy Conversion Materials, Organophotocatalyst Responsive to Whole Visible Light		Nuclear Engineering
Associate Professor	NAKADA, Nobuo	Microstructure and Mechanical Properties of Iron and Steel		Materials Science and Engineering
Associate Professor	NAKAMURA, Kazutaka	Laser Spectroscopy		Materials Science and Engineering
Associate Professor	NAKATSUJI, Kan	Surface and Interface Physics		Materials Science and Engineering
Associate Professor	SANNOMIYA, Takumi	Plasmonic Materials, Electron Microscopy		Materials Science and Engineering
Associate Professor	SASAGAWA, Takao	Strongly Correlated Electron Systems		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	SONE, Masato	Material Fabrication and Evaluation for IC & MEMS		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	TADA, Tomofumi	Quantum Chemistry for Device Modeling		Materials Science and Engineering
Associate Professor	TANIYAMA, Tomoyasu	Magnetism in Nanostructures, Spintronics, Multiferroics		• Materials Science and Engineering • Energy Science and Engineering
Associate Professor	TERADA, Yoshihiro	Microstructure Control, Mechanical Properties, Heat-Resistant Materials		Materials Science and Engineering
Associate Professor	TSUGE, Takeharu	Biodegradable Plastics		• Human Centered Science and Biomedical Engineering • Materials Science and Engineering
Associate Professor	WADA, Hiroyuki	Optical Materials, Nanoparticles		Materials Science and Engineering

(3)Dept. of Chemical Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	FUKUSHIMA, Takanori	Organic Functional Materials, Nanomaterials, π -Electronic Systems, Molecular Assembly		Chemical Science and Engineering
Professor	HARA, Masahiko	Materials Chemistry, Self-Assembly, Surface & Interface, Scanning Probe Microscopy, Nanophotonics, Biointerface, Chemical Evolution & Origin of Life	also Affiliated Scientist at Earth-Life Science Institute	• Chemical Science and Engineering • Energy Science and Engineering
Professor	KANNO, Ryoji	Solid State Electrochemistry, Inorganic Materials Chemistry		• Energy Science and Engineering • Chemical Science and Engineering
Professor	TOMITA, Ikuyoshi	Polymer Synthetic Chemistry		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	HIRAYAMA, Masaaki	Energy Conversion Materials, Inorganic and Solid State Chemistry, Electrochemical Interface		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	INAGI, Shinsuke	Organic Electrochemistry, Polymer Chemistry		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	KITAMURA, Fusao	Electrochemistry, Spectroscopy, In-situ Spectroelectrochemistry		Energy Science and Engineering
Associate Professor	KOIZUMI, Takeaki	Organometallic Chemistry, Electrocoordination Chemistry		Chemical Science and Engineering
Associate Professor	NAGAI, Keiji	Energy Conversion Materials, Organophotocatalyst Responsive to Whole Visible Light		• Energy Science and Engineering • Chemical Science and Engineering
Associate Professor	NOMURA, Junko	Catalytic Chemistry, Inorganic Synthesis		Chemical Science and Engineering
Associate Professor	WADA, Hiroyuki	Optical Materials, Nanoparticles		• Energy Science and Engineering • Chemical Science and Engineering

(4)Dept. of Life Science and Technology

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	FUJII, Masaaki	Physical Chemistry, Laser Spectroscopy, Cluster		Human Centered Science and Biomedical Engineering
Professor	NAKAMURA, Hiroyuki	Organic Synthesis, Medicinal Chemistry, Chemical Biology		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Professor	TANAKA, Kan	Evolutional Cell Biology, Cell Cycle, Signal Transduction, Microbiology, Symbiosis, Organelle, Chloroplast, Mitochondria, Transcriptional Regulation, Plant Physiology, Photosynthesis		• Human Centered Science and Biomedical Engineering • Life Science and Technology
Associate Professor	FUSE, Shinichiro	Synthetic Organic Chemistry, Medicinal Chemistry, Natural Product Synthesis, Micro-flow Synthesis		• Life Science and Technology • Human Centered Science and Biomedical Engineering
Associate Professor	IMAMURA, Sousuke	Molecular Biology, Gene Regulation, Genetic Engineering, Biofuel, Algal Biomass		• Human Centered Science and Biomedical Engineering • Life Science and Technology

Advanced Course of Environmental and Energy Science and Engineering

(1)Dept. of Physics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Associate Professor	KANAMORI, Hideto	Molecular Spectroscopy, Quantum Electronics, Quantum Computing		Physics
Associate Professor	KAWAMURA, Toru	Plasma Physics, Atomic Processes in Plasmas, Plasma X-ray Spectroscopy		Physics
Associate Professor	☆SANEYOSHI, Keiji	Robotics, Stereo-vision		Physics

☆indicates person who retires in March, 2017.

(2)Dept. of Mechanical Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	AOKI, Takayuki	GPU Computing, Large-scale Computational Fluid Dynamics on Supercomputer, Two-phase Flow Simulation, Natural Disaster Simulation		• Mechanical Engineering • Energy Science and Engineering
Professor	☆HORIOKA, Kazuhiko	Physics and Application of High Energy Density Plasma, Inertial Fusion Science, High-power Beam Technology		• Mechanical Engineering • Energy Science and Engineering
Professor	OKAMURA, Tetsuji	Cryogenics, Cooling/Refrigeration Technology, Superconducting Magnet Technology		• Mechanical Engineering • Energy Science and Engineering
Professor	OKUNO, Yoshihiro	Physics and Application of Magnetohydrodynamics, MHD Power Generation, Plasma Science and Engineering		• Energy Science and Engineering • Mechanical Engineering
Professor	SUEKANE, Tetsuya	CO2 Geological Storage, Enhanced Oil Recovery, Transport in Porous Media		• Energy Science and Engineering • Mechanical Engineering
Associate Professor	FURUYA, Hiroshi	Aerospace Engineering, Multidisciplinary Structural Optimization		• Mechanical Engineering • Engineering Sciences and Design
Associate Professor	HASEGAWA, Jun	Plasma Science and Technology, Ion Beam Application Studies, Inertial Fusion Studies, High Energy Density Science, Radiation Physics		• Mechanical Engineering • Energy Science and Engineering
Associate Professor	NAGASAKI, Takao	Thermal Engineering, Heat and Mass Transfer with Phase Change, Numerical Analysis of Heat and Fluid Flow		• Energy Science and Engineering • Mechanical Engineering
Associate Professor	XIAO, Feng	Fluid Dynamics, Computational Fluid Dynamics, Numerical Analysis, Computational Physics		• Mechanical Engineering • Energy Science and Engineering

☆indicates person who retires in March, 2017

(3)Dept. of Electrical and Electronic Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	OGURI, Yoshiyuki	Heavy-Ion-Driven Inertial Fusion, Environmental- and Medical Sciences Based on MeV Ion Beams		Nuclear Engineering
Associate Professor	AKATSUKA, Hiroshi	Atomic and Molecular Processes in Plasmas, Plasma Diagnostics and Spectroscopy, Gaseous Electronics		Nuclear Engineering

(4)Dept. of Chemical Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	AKITA, Munetaka	Organometallic Chemistry		Chemical Science and Engineering
Professor	BABA, Toshihide	Heterogeneous Catalysis, Green Chemistry, Zeolite Synthesis, Bio Chemistry		Human Centered Science and Biomedical Engineering
Professor	KATO, Yukitaka	Energy Conversion, Energy Storage, Chemical Heat Pump, Carbon Recycling Energy System, Hydrogen Energy, Energy Utilization System		Nuclear Engineering
Professor	OSAKADA, Kohtarō	Synthetic Organic Chemistry, Organometallic Chemistry		Chemical Science and Engineering
Professor	YAMAGUCHI, Takeo	Fuel Cell Engineering, Bio-inspired Materials, Membrane Science		Chemical Science and Engineering
Professor	YAMAMOTO, Kimihisa	Nano-materials Chemistry, Metallochemistry, Macromolecular Science		Chemical Science and Engineering
Professor	YOSHIDA, Naohiro	Environmental Chemistry, Isotope Chemistry		Chemical Science and Engineering
Associate Professor	IMAOKA, Takane	π -Conjugating Molecular Chemistry, Electron Transfer Chemistry, Nanomaterial Science		Chemical Science and Engineering
Associate Professor	MOTOKURA, Ken	Heterogeneous Catalysis, Organic Chemistry		Human Centered Science and Biomedical Engineering

Associate Professor	SEKI, Hiroya	Process Systems Engineering, Process Dynamics and Control		Chemical Science and Engineering
Professor	SHISHIDO, Atsushi	Polymer Chemistry, Materials Chemistry		Energy Science and Engineering
Associate Professor	TAKEUCHI, Daisuke	Polymer Chemistry, Organometallic Chemistry		Energy Science and Engineering
Associate Professor	TAMAKI, Takanori	Energy Materials, Biomaterials, Bioelectrochemistry		Chemical Science and Engineering
Associate Professor	TOYODA, Sakae	Environmental Geochemistry, Analysis of Environmental Material Cycles		Chemical Science and Engineering
Associate Professor	WAKI, Keiko	Fuel Cells, Solar Cells, Rechargeable Batteries		Energy Science and Engineering
Associate Professor	YAMADA, Keita	Organic Geochemistry, Isotope Chemistry		Chemical Science and Engineering
Associate Professor	YOSHIZAWA, Michito	Supramolecular Chemistry, Coordination Chemistry		Chemical Science and Engineering

(5)Dept. of Life Science and Technology

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	HISABORI, Toru	Bioenergetics, Plant Biochemistry		Human Centered Science and Biomedical Engineering
Professor	KOBATAKE, Eiry	Protein Engineering, Cellular Engineering, Biosensing		Life Science and Technology
Professor	NISHIYAMA, Nobuhiro	Drug Delivery System, Biomaterials Science		Human Centered Science and Biomedical Engineering
Professor	UEDA, Hiroshi	Bioprocess and Protein Engineering, Antibody Engineering, Analytical Chemistry, Biosensors		Human Centered Science and Biomedical Engineering
Associate Professor	MIE, Masayasu	Protein Engineering, Tissue Engineering, Biosensing		Life Science and Technology
Associate Professor	WAKABAYASHI, Ken-ichi	Cell Biology, Cell Motility, Biochemistry		Human Centered Science and Biomedical Engineering

(6)Dept. of Architecture and Building Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	KONO, Susumu	Reinforced and prestressed concrete structures, Earthquake Engineering		Architecture and Building Engineering Urban Design and Built Environment
Professor	☆ MIDORIKAWA, Saburoh	Earthquake Engineering and Disaster Management		Urban Design and Built Environment
Professor	MOTOYUI, Shojiro	Structural Engineering		Urban Design and Built Environment
Professor	NAKAMURA, Yoshiki	Visual Environment		Urban Design and Built Environment
Professor	OSARAGI, Toshihiro	Spatial Analysis and Planning, Spatial Information Science		· Urban Design and Built Environment · Architecture and Building Engineering
Professor	TAMURA, Tetsuro	Atmospheric Environmental Turbulence, Wind Engineering, Wind Disaster Mitigation		Urban Design and Built Environment
Professor	YAMADA, Satoshi	Structural Engineering, Earthquake Engineering		Architecture and Building Engineering Urban Design and Built Environment
Professor	YAMANAKA, Hiroaki	Environmental and Engineering Geophysics, Strong Motion Seismology		Urban Design and Built Environment
Adjunct Professor	KAIEDA, Hideshi	Applied geophysics Geothermal engineering		Urban Design and Built Environment
Adjunct Professor	SUEMATSU, Takashi	Human Behavior Simulation for Disaster		Urban Design and Built Environment
Associate Professor	ASAWA, Takashi	Urban and Built Environmental Engineering		Urban Design and Built Environment
Associate Professor	FUJITA, Yasuhito	History of Architecture and Cities		Urban Design and Built Environment
Associate Professor	FURUYA, Hiroshi	Aerospace Engineering, Multidisciplinary Structural Optimization		Urban Design and Built Environment
Associate Professor	KANNO, Yoshihiro	Structural Optimization, Mathematical Design, Computational Solid Mechanics		· Architecture and Building Engineering · Urban Design and Built Environment
Associate Professor	KISHIKI, Shoichi	Base-Isolation and Passive Control Structure, Seismic Retrofit for Existing Buildings, Post-Earthquake Damage Evaluation and Rehabilitation		· Architecture and Building Engineering · Urban Design and Built Environment
Associate Professor	MATSUOKA, Masashi	Remote Sensing and Geoinformatics for Disaster Management		Urban Design and Built Environment

Associate Professor	NASU, Satoshi	Architectural Design and Theory Public Space and Community Design		Urban Design and Built Environment
Associate Professor	SATO, Daiki	Structural Engineering and Earthquake Engineering		• Urban Design and Built Environment • Architecture and Building Engineering
Visiting Associate Professor	KIKITSU, Hitomitsu	Architectural Structure, Natural Hazard Mitigation		Urban Design and Built Environment
Adjunct Associate Professor	KOBAYASHI, Hideki	Remote Sensing, Agricultural and Forest Meteorology		Urban Design and Built Environment
Adjunct Associate Professor	SATO, Toshiaki	Urban Geospatial Information Analysis		Urban Design and Built Environment
Adjunct Associate Professor	SOEDA, Masashi	Environmental Psychology		Urban Design and Built Environment
Adjunct Associate Professor	YANAGISAWA, Jun	Public Space Design , Urban Landscape		Urban Design and Built Environment

☆indicates person who retires in March, 2017.

(7)Dept. of Civil and Environmental Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	MORIKAWA, Hitoshi	Earthquake Engineering		• Urban Design and Built Environment • Civil Engineering
Professor	YAI, Tetsuo	Transportation Planning		• Urban Design and Built Environment • Civil Engineering
Associate Professor	FUKUDA, Daisuke	Travel Behavior Analysis, Transportation Systems Analysis, Traffic Engineering, Transportation Economics		• Urban Design and Built Environment • Civil Engineering • Engineering Sciences and Design
Associate Professor	MUROMACHI, Yasunori	Transport and the Environment, Travel Behavior		• Urban Design and Built Environment • Civil Engineering
Adjunct Associate Professor	SUZUKI, Atsushi	Energy and Environmental Policy		Urban Design and Built Environment
Adjunct Associate Professor	SUZUKI, Kojiro	Tsunami Disaster Mitigation, Coastal Engineering		Urban Design and Built Environment

(8)Dept. of Transdisciplinary Science and Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	IIO, Shunji	Magnetic Confinement Fusion, Laser Diagnostics, Applied Electromagnetics		Nuclear Engineering
Professor	KINOUCHI, Tsuyoshi	Watershed Hydrology, Environmental Hydrology		Global Engineering for Development, Environment and Society
Professor	MURAYAMA, Takehiko	Environmental Policy & Planning, Risk Assessment & Management, Risk Communication, Environmental Impact Assessment, Policy Dialogue, Social Decision-Making		Global Engineering for Development, Environment and Society
Professor	OGURI, Yoshiyuki	Heavy-Ion-Driven Inertial Fusion, Environmental- and Medical Sciences Based on MeV Ion Beams		Nuclear Engineering
Professor	TAKESHITA, Kenji	Environmental Chemical Engineering, Material Recycling, Waste Management, Separation Engineering (Extraction, Adsorption)		Nuclear Engineering
Professor	YAI, Tetsuo	Transportation Planning		Global Engineering for Development, Environment and Society
Visiting Professor	AOYAGI, Midori	Sociology of Risk, Environmental Sociology, Risk and Media, Survey Research		Global Engineering for Development, Environment and Society
Visiting Professor	ICHII, Kazuhito	Terrestrial Carbon and Water Cycle Modeling, Remote Sensing of Land Surface		Global Engineering for Development, Environment and Society
Visiting Professor	INOUE, Tetsunori	Environmental Hydrodynamics		Global Engineering for Development, Environment and Society
Adjunct Professor	NAGASHIRO, Naruhide	Relationship between Food Production and Environmental Problem, Poverty in Rural Area caused by Deterioration of Natural Environment		Global Engineering for Development, Environment and Society
Associate Professor	AKATSUKA, Hiroshi	Atomic and Molecular Processes in Plasmas, Plasma Diagnostics and Spectroscopy, Gaseous Electronics		Nuclear Engineering
Associate Professor	MATSUMOTO, Yoshihisa	Radiation Biology, Molecular Biology and Biochemistry, Basic Medicine		Nuclear Engineering
Associate Professor	NAKAMURA, Takashi	Computational Environmental Fluid Dynamics, Computational Scheme, Multi Physics Simulation		Global Engineering for Development, Environment and Society

Associate Professor	NISHIKIZAWA, Shigeo	Environmental Policy and Planning, Public Participation, Environmental Impact Assessment		Global Engineering for Development, Environment and Society
Associate Professor	SATO, Yuriko	Policy Evaluation, Development Economics, International Education, Immigration Policy		Global Engineering for Development, Environment and Society
Associate Professor	TAKAHASHI, Fumitake	Waste management with solid waste recycle, risk assessment, and psychological aspects Supercritical fluid chemistry		Global Engineering for Development, Environment and Society
Associate Professor	TOKIMATSU, Koji	Energy Technology, Resource Supply and Demand, Environmental and Resource Economics, Sustainable Development		Global Engineering for Development, Environment and Society
Associate Professor	XIAO, Feng	Fluid Dynamics, Computational Fluid Dynamics, Numerical Analysis, Computational Physics		Energy Science and Engineering

Advanced Course of Information Technology and Systems Science

(1)Dept. of Physics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	MUNEKATA, Hiro	Condensed Matter Physics (experiment), Spintronics, Photonics, Materials Science		Physics

(2)Dept. of Mechanical Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	HATSUZAWA , Takeshi	Bio-MEMS/NEMS		• Human Centered Science and Biomedical Engineering • Mechanical Engineering
Professor	OMATA, Toru	Robotics, Medical systems		• Human Centered Science and Biomedical Engineering • Mechanical Engineering
Professor	SHINNO, Hidenori	Ultraprecision Machining, Machine Tools		• Engineering Sciences and Design • Mechanical Engineering
Professor	SHINSHI, Tadahiko	Micro/Nano Mechatronics, Artificial Heart		• Mechanical Engineering • Human Centered Science and Biomedical Engineering
Professor	YOSHIDA, Kazuhiro	Fluid Micromachines		• Engineering Sciences and Design • Mechanical Engineering • Energy Science and Engineering
Associate Professor	KIM, Joon-wan	MEMS, Micro Mechatronics, Bio Mechatronics		• Mechanical Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	MATSUMURA, Shigeki	Vibration Measurement and Analysis		• Engineering Sciences and Design • Mechanical Engineering
Associate Professor	SATO, Chiaki	Adhesion technology, Composite materials		• Mechanical Engineering • Engineering Sciences and Design
Associate Professor	SATO, Kaiji	Precision Mechatronics, Control Engineering, Microsystems		Mechanical Engineering
Associate Professor	TADANO, Kotaro	Medical Robotics, Man-Machine System		• Human Centered Science and Biomedical Engineering • Mechanical Engineering
Associate Professor	TAKAYAMA, Toshio	Medical tool, Mobile robot, Robotics		• Mechanical Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	YANAGIDA, Yasuko	BioMEMS/NEMS, Bio-sensing, Biofunctional Engineering		• Human Centered Science and Biomedical Engineering • Mechanical Engineering
Associate Professor	YOSHIOKA, Hayato	Ultraprecision machine tool		• Mechanical Engineering • Engineering Sciences and Design
Associate Professor	NISISAKO, Takasi	Microfluidics, Lab on a Chip, MicroTAS, Microreactor		Mechanical Engineering

(3)Dept. of Systems and Control Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Associate Professor	HASEGAWA, Osamu	Pattern based Artificial Intelligence, Artificial Brain (SOINN), Cognitive Robotics		Engineering Sciences and Design

(4)Dept. of Electrical and Electronic Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	ASADA, Masahiro	Semiconductor Nano-Devices, High-Speed Devices, Terahertz Devices		Electrical and Electronic Engineering
Professor	KAJIKAWA, Kotaro	Plasmonics, Metamaterials, Nonlinear Optics		Human Centered Science and Biomedical Engineering Electrical and Electronic Engineering
Professor	KOYAMA, Fumio	Photo Integrated Devices for Optical Communication		Electrical and Electronic Engineering
Professor	MASU, Kazuya	Diverse-Functionality-Integration on CMOS, Swarm Electronics for Cyber Physical System		Electrical and Electronic Engineering
Professor	NAKAMOTO, Takamichi	Human interface, Olfactory display, Odor sensing system, Sensor information processing		Electrical and Electronic Engineering
Professor	NAKAMURA, Kentaro	Optical Sensing, Applied Acoustic Devices		Human Centered Science and Biomedical Engineering Electrical and Electronic Engineering
Professor	TSUTSUI, Kazuo	Solid State Electronics		Electrical and Electronic Engineering

Professor	UENOHARA, Hiroyuki	Optical Communications, Photonic Switching, Photonic Integration, Optical Signal Processing		Electrical and Electronic Engineering
Professor	WAKABAYASHI, Hitoshi	Semiconductor Devices, Nano-electronics, LSI		Electrical and Electronic Engineering
Adjunct Professor	KATOH, Takashi	Organic Electro Photo-functionality Materials		Electrical and Electronic Engineering
Associate Professor	IINO, Hiroaki	Organic Electronics, TFT, Imaging Devices		Electrical and Electronic Engineering
Associate Professor	ITO, Haruhiko	Opto-Quantum Electronics		Electrical and Electronic Engineering
Associate Professor	ITO, Hiroyuki	RF Integrated Circuits for Communication, Hardware Technologies for Cyber Physical System		Electrical and Electronic Engineering
Associate Professor	KAKUSHIMA, Kuniyuki	Nanoelectronics and MEMS		Electrical and Electronic Engineering
Associate Professor	KUROSAWA, Minoru	Electro-mechanical Transducer, Actuators and Sensors, Mechatronics		Electrical and Electronic Engineering
Associate Professor	MIYAMOTO, Tomoyuki	Semiconductor Opto-electronic Devices		Electrical and Electronic Engineering
Associate Professor	OHMI, Shun-ichiro	Semiconductor Devices		Electrical and Electronic Engineering
Associate Professor	SUGAHARA, Satoshi	Semiconductor Devices, Spin Devices, Integrated Circuits		Electrical and Electronic Engineering
Associate Professor	TABARU, Marie	Acoustic and Optical Instrumentation, Biomedical Measurement		Human Centered Science and Biomedical Engineering Electrical and Electronic Engineering
Associate Professor	WATANABE, Masahiro	Quantum Devices, Hetero-epitaxial Engineering		Electrical and Electronic Engineering

(5) Dept. of Information and Communications Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	KOIKE, Yasuharu	Human Interface, Computational Neuroscience		• Human Centered Science and Biomedical Engineering • Information and Communications Engineering
Professor	KUMAZAWA, Itsuo	Neural Networks, Cognitive Science, Image Processing, Image Encoding, Pattern Recognition, User Interfaces		Information and Communications Engineering
Professor	NAKAMOTO, Takamichi	Human interface, Olfactory display, Odor sensing system, Sensor information processing		Information and Communications Engineering
Professor	NAKAMURA, Kentaro	Optical Sensing, Applied Acoustic Devices		Information and Communications Engineering
Professor	OKUMURA, Manabu	Natural Language Processing, Text Summarization, Text Mining, Sentiment Analysis		Information and Communications Engineering
Professor	YAMAGUCHI, Masahiro	Optical Imaging and Display, Color Imaging, Holography		• Human Centered Science and Biomedical Engineering • Information and Communications Engineering
Associate Professor	HASEGAWA, Shoichi	Virtual Reality, Human Interface, Dynamic Simulation, Haptics, Entertainment Computing		Information and Communications Engineering
Associate Professor	KANEKO, Hirohiko	Visual Information Processing, Human Space Perception, Sensory and Motor Measurements		• Human Centered Science and Biomedical Engineering • Information and Communications Engineering
Associate Professor	KUROSAWA, Minoru	Electro-mechanical Transducer, Actuators and Sensors, Mechatronics		Information and Communications Engineering
Associate Professor	OBI, Takashi	Image Reconstruction, Information Security, Social Information System		• Information and Communications Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	SHINOZAKI, Takahiro	Speech Recognition, Speech Signal Processing, Machine Learning		• Information and Communications Engineering • Human Centered Science and Biomedical Engineering
Associate Professor	SUGINO, Nobuhiko	Code Optimization Methods for VLIWs and GPGPU, Automatic Parallelizing Compilers, Implementation Techniques of Digital Signal Processing		Information and Communications Engineering
Associate Professor	TABARU, Marie	Acoustic and Optical Instrumentation, Biomedical Measurement		Information and Communications Engineering

Associate Professor	TAKAMURA, Hiroya	Natural Language Processing, Computational Linguistics		Information and Communications Engineering
Associate Professor	YOSHIMURA, Natsue	Human Interface, Computational Neuroscience		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering, • Information and Communications Engineering

(6)Dept. of Computer Science

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	DEGUCHI, Hiroshi	Evolutionary Economics, Agent-Based Modeling & Simulation, Service System		Artificial Intelligence
Professor	KONAGAYA, Akihiko	Biomedical Informatics, Knowledge Science, Inverse Problem Solving, Molecular Robotics		Artificial Intelligence
Professor	MIYAKE, Yoshihiro	Co-creation System, Human Communication, Cognitive Science, Human-Computer Interaction, Self-organization		Artificial Intelligence
Professor	YAMAMURA, Masayuki	DNA Computing, Natural Computing, Systems Biology		Artificial Intelligence
Associate Professor	AONISHI, Toru	Computational Neuroscience, Statistical Mechanics		Artificial Intelligence
Associate Professor	ISHII, Hideaki	Systems and Control, Control Over Networks		Artificial Intelligence
Associate Professor	ONO, Isao	Evolutionary Computation, Optimization		Artificial Intelligence
Associate Professor	TAKINOUE, Masahiro	Biophysics, Nonlinear nonequilibrium science, Microfluidics, Artificial Cell, Molecular Robotics		Artificial Intelligence

*contact the department

(7)Dept. of Life Science and Technology

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Associate Professor	MIYASHITA, Eizo	Systems Neuroscience		Human Centered Science and Biomedical Engineering
Associate Professor	YANAGIDA, Yasuko	Bioengineering		<ul style="list-style-type: none"> • Human Centered Science and Biomedical Engineering • Life Science and Technology

Education Program of Advanced Information Technology Leaders

(1)Dept. of Mathematical and Computing Science

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	MASUHARA, Hidehiko	Programming Languages, Software Development Environment		Mathematical and Computing Science
Professor	MATSUOKA, Satoshi	High-Performance Computing, Big Data	Global Scientific Information and Computing Center	Mathematical and Computing Science
Professor	MINAMIDE, Yasuhiko	Software Verification, Programming Languages		Mathematical and Computing Science
Professor	MIYOSHI, Naoto	Applied Probability, Stochastic Models		Mathematical and Computing Science
Professor	NISHIBATA, Shinya	Theory of Partial Differential Equations		Mathematical and Computing Science
Professor	UMEHARA, Masaaki	Differential Geometry		Mathematical and Computing Science
Professor	WATANABE, Osamu	Theory of Computing, Algorithms		Mathematical and Computing Science
Associate Professor	ENDO, Toshio	High-Performance Computing, Parallel Software	Global Scientific Information and Computing Center	Mathematical and Computing Science
Associate Professor	FUKUDA, Mituhiro	Mathematical Optimization, Continuous Optimization		Mathematical and Computing Science
Associate Professor	KASHIMA, Ryo	Mathematical Logic, Non-Classical Logics		Mathematical and Computing Science
Associate Professor	MIURA, Hideyuki	Theory of Partial Differential Equations		Mathematical and Computing Science
Associate Professor	SHUDO, Kazuyuki	Distributed Systems		Mathematical and Computing Science
Associate Professor	SUZUKI, Taiji	Statistics, Machine Learning		Mathematical and Computing Science
Associate Professor	TANAKA, Keisuke	Theory of Cryptography, Theory of Computation		Mathematical and Computing Science
Associate Professor	TERASHIMA, Yuji	Differential Topology, Mathematical Physics		Mathematical and Computing Science
Associate Professor	WAKITA, Ken	Social Network Analysis, Information Visualization, Programming Languages		Mathematical and Computing Science
Associate Professor	YAMASHITA, Makoto	Mathematical Optimization, Continuous Optimization		Mathematical and Computing Science

(2)Dept. of Computer Science

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	AKIYAMA, Yutaka	Bioinformatics		• Artificial Intelligence • Computer Science
Professor	DÉFAGO, Xavier	Distributed algorithms, Dependable computing, Middleware, Cooperative mobile robotics		• Computer Science • Artificial Intelligence
Professor	GONDOW, Katsuhiko	Software Development Environments, Software Engineering		• Computer Science • Artificial Intelligence
Professor	KOIKE, Hideki	Vision-based HCI, Information Visualization		• Computer Science • Artificial Intelligence
Professor	MIYAZAKI, Jun	Large Scale Computing, Information Retrieval/Recommendation		• Computer Science • Artificial Intelligence
Professor	NISHIZAKI, Shinya	Semantics of Programming Languages, Software Science		• Computer Science • Artificial Intelligence
Professor	SAEKI, Motoshi	Software Engineering		• Computer Science • Artificial Intelligence
Professor	SHINODA, Koichi	Statistical Pattern Recognition, Audio and Video Scene Understanding		• Artificial Intelligence • Computer Science
Professor	TOKUNAGA, Takenobu	Natural Language Processing, Computational Linguistics		• Artificial Intelligence • Computer Science
Professor	YOKOTA, Haruo	Data Engineering, Dependable Systems		• Computer Science • Artificial Intelligence
Adjunct Professor	INOUE, Katsumi	Artificial Intelligence, Machine Learning, Logic Programming		• Artificial Intelligence • Computer Science

Associate Professor	FUJII, Atsushi	Knowledge processing, Information retrieval, Natural language processing		• Artificial Intelligence • Computer Science
Associate Professor	ISHIDA, Takashi	Data mining, Bioinformatics		• Artificial Intelligence • Computer Science
Associate Professor	KANEKO, Haruhiko	Dependable System, Joint Coding Theory		• Computer Science • Artificial Intelligence
Associate Professor	KISE, Kenji	Computer Architecture		• Computer Science • Artificial Intelligence
Associate Professor	KOBAYASHI, Takashi	Software Engineering		• Computer Science • Artificial Intelligence
Associate Professor	MURATA, Tsuyoshi	Artificial Intelligence, Web Mining, Link Mining, Social Network Analysis		• Artificial Intelligence • Computer Science
Associate Professor	SAITO, Suguru	Computer Graphics, Image Processing		• Artificial Intelligence • Computer Science
Associate Professor	SHIMOSAKA, Masamichi	Machine intelligence, Machine learning, Pattern recognition, Crowd sensing, Ubiquitous computing		• Artificial Intelligence • Computer Science
Associate Professor	WATANABE, Takuo	Programming Languages, Distributed Systems		• Computer Science • Artificial Intelligence
Associate Professor	YOKOTA, Rio	High Performance Computing, Large-scale Parallel Computing, N-Body Algorithms, Fluid Simulation, Molecular Simulation		• Computer Science • Artificial Intelligence

(3)Dept. of Systems and Control Engineering

ACADEMIC ADVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	AMAYA, Kenji	Inverse Problems, Computational Mechanics, Electrochemical Analysis, Optical Analysis		Systems and Control Engineering
Professor	IMURA, Jun-ichi	Control Theory, Hybrid Systems Theory, Power System Control, Transportation		Systems and Control Engineering
Professor	NAKASHIMA, Motomu	Sports Engineering, Biomechanics, Biorobotics, Musculoskeletal Analysis, Welfare Engineering		Systems and Control Engineering
Visiting Professor	NAKADAI, Kazuhiro*	Robot Audition, Computational Auditory Scene Analysis, Human-Machine Interaction		Systems and Control Engineering
Associate Professor	HARA, Seiichiro	Surface Metrology, Measurement Information Processing		Systems and Control Engineering
Associate Professor	HAYAKAWA, Tomohisa	Control Theory, Dynamical Systems Theory		Systems and Control Engineering
Associate Professor	MIYAZAKI, Yusuke	Biomechanics, Injury Preventive Engineering, Digital Human Modeling		Systems and Control Engineering
Associate Professor	NAKAO, Hiroya	Nonlinear Dynamics, Stochastic Processes, Self-organization Phenomena		Systems and Control Engineering

*indicates a visiting professor who belongs to Honda Research Institute.

Applicant who intends Professor Kazuhiro Nakadai as your academic advisor must fill in the name of Professor Jun-ichi Imura as an intended academic advisor(main) and Professor Nakadai Kazuhiro as an intended academic advisor (sub) in the entry column of "Intended academic supervisor" of the application form. For the details, please make contact with Professor Jun-ichi Imura.

International Graduate Program for Global Leaders on Engineering Systems with Humanities, Social Sciences, and Cultural Studies (IGP-GLES)

(1)Dept. of Industrial Engineering and Economics

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	HIGUCHI, Yoichiro	Socio-Economic Networks, Econometrics		Industrial Engineering and Economics
Professor	IJIMA, Junichi	Systems Theory, Information Systems		Industrial Engineering and Economics
Professor	INOUE, Kotaro	Corporate Finance, Finance		Industrial Engineering and Economics
Professor	ITOH, Kenji	Ergonomics, Cognitive Engineering, Safety Engineering		Industrial Engineering and Economics
Visiting Professor	MASUI, Toshihiko	Environmental Economic Modeling	Supporting supervisor	Industrial Engineering and Economics
Professor	MATSUI, Tomomi	Optimization Theory, Combinatorics, Operations Research		Industrial Engineering and Economics
Professor	MIYAKAWA, Masami	Applied Statistics, Quality Control, Reliability		Industrial Engineering and Economics
Professor	MIZUNO, Shinji	Numerical Optimization, Operations Research, Financial Engineering		Industrial Engineering and Economics
Professor	TANAKA, Yoshitoshi	Intellectual Property Rights		Industrial Engineering and Economics
Professor	UMEMURO, Hiroyuki	Affect and Emotion, Gerontechnology, Human Factors		Industrial Engineering and Economics
Professor	YAMAMURO, Kyoko	History of Japan		Industrial Engineering and Economics
Professor	YAMATO, Takehiko	Microeconomic Theory, Experimental Economics		Industrial Engineering and Economics
Associate Professor	AOKI, Hirotaka	Human Factors and Ergonomics, Industrial Engineering		Industrial Engineering and Economics
Associate Professor	CHUNG, Sulin	Marketing, Distribution		Industrial Engineering and Economics
Associate Professor	HORI, Takeo	Macroeconomics		Industrial Engineering and Economics
Visiting Associate Professor	KANAMORI, Yuko	Environmental Economic Modeling	Supporting supervisor	Industrial Engineering and Economics
Associate Professor	KAWASAKI, Ryo	Mathematical Economics, Game Theory		Industrial Engineering and Economics
Associate Professor	MATSUSHITA, Yukitoshi	Statistics, Econometrics		Industrial Engineering and Economics
Associate Professor	NAGATA, Kyoko	Accounting Information, M&A		Industrial Engineering and Economics
Associate Professor	NAKATA, Kazuhide	Managerial Mathematics, Operations Research, Financial Engineering		Industrial Engineering and Economics
Associate Professor	OHDOI, Ryoji	Dynamic Macroeconomics		Industrial Engineering and Economics
Associate Professor	SENOO, Dai	Knowledge Management, Leadership		Industrial Engineering and Economics
Associate Professor	SHIOURA, Akiyoshi	Discrete Optimization, Operations Research		Industrial Engineering and Economics
Associate Professor	SUZUKI, Sadami	Quality Control, Logistics		Industrial Engineering and Economics

International Program on Earthquake Engineering

Earthquake Engineering

(1)Dept. of Architecture and Building Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	FUJII, Haruyuki	Design Science, Environmental Design Theories		• Engineering Sciences and Design • Architecture and Building Engineering
Professor	KONO, Susumu	Reinforced and prestressed concrete structures, Earthquake Engineering		• Architecture and Building Engineering • Urban Design and Built Environment
Professor	☆ MIDORIKAWA, Saburoh	Earthquake Engineering and Disaster Management		Urban Design and Built Environment
Professor	MOTOYUI, Shojiro	Structural Engineering		Urban Design and Built Environment
Professor	NAKAI, Norihiro	Urban Planning, Urban Policy, Urban Design		Urban Design and Built Environment
Professor	OSARAGI, Toshihiro	Spatial Analysis and Planning Spatial Information Science		• Architecture and Building Engineering • Urban Design and Built Environment
Professor	SAKATA, Hiroyasu	Building Material and Structural Engineering		• Architecture and Building Engineering • Urban Design and Built Environment
Professor	TAKEUCHI, Toru	Steel Structure, Structural design, Seismic Control		Architecture and Building Engineering
Professor	YAMADA, Satoshi	Structural Engineering, Earthquake Engineering		• Architecture and Building Engineering • Urban Design and Built Environment
Professor	YAMANAKA, Hiroaki	Environmental and Engineering Geophysics, Strong Motion Seismology		Urban Design and Built Environment
Professor	YOKOYAMA, Yutaka	Building Materials		Architecture and Building Engineering
Adjunct Professor	SUEMATSU, Takashi	Human Behavior Simulation for Disaster		Urban Design and Built Environment
Associate Professor	IKARASHI, Kikuo	Steel Structures		Architecture and Building Engineering
Associate Professor	KISHIKI, Shoichi	Seismic retrofit for existing buildings, Post-earthquake damage evaluation and rehabilitation		• Architecture and Building Engineering • Urban Design and Built Environment
Associate Professor	MATSUOKA, Masashi	Remote Sensing and Geoinformatics for Disaster Management		Urban Design and Built Environment
Associate Professor	MIKAMI, Takamasa	Performance Evaluation of Building Elements, Safety Evaluation of Residential Environment		Architecture and Building Engineering
Associate Professor	SATO, Daiki	Structural Engineering and Earthquake Engineering		• Architecture and Building Engineering • Urban Design and Built Environment
Associate Professor	TAMURA, Shuji	Seismic design of piles, Soil-structure interaction		Architecture and Building Engineering
Adjunct Associate Professor	SATO, Toshiaki	Urban Geospatial Information Analysis		Urban Design and Built Environment

☆ indicates person who will retire in March, 2018.

(2)Dept. of Civil and Environmental Engineering

ACADEMIC SUPERVISOR		RESEARCH FIELD	REMARKS	MAJOR
Professor	ASAKURA, Yasuo	Transportation Planning & Engineering		• Civil Engineering • Urban Design and Built Environment
Professor	HIROSE, Sohichi	Applied Mechanics, Elastodynamics, Nondestructive Evaluation		Civil Engineering
Professor	IWANAMI, Mitsuyasu	Infrastructure management, Marine structure engineering		Civil Engineering
Professor	KITAZUME, Masaki	Soil Mechanics & Geotechnical Engineering		• Engineering Sciences and Design • Civil Engineering
Professor	MORIKAWA, Hitoshi	Earthquake Engineering		• Urban Design and Built Environment • Civil Engineering
Professor	NAKAI, Norihiro	Urban Planning, Urban Policy, Urban Design		Urban Design and Built Environment
Professor	NIWA, Junichiro	Structural Concrete		Civil Engineering
Professor	SAKANO, Tatsuro	Organizational Design, Planning Theory, Public Management		Urban Design and Built Environment

Professor	TAKAHASHI, Akihiro	Geotechnical Engineering		Civil Engineering
Associate Professor	CHIJIWA, Nobuhiro	Multi-scale dynamics of structural concrete, Performance assesment of deteriorated structure		Civil Engineering
Associate Professor	FUKUDA, Daisuke	Transportation and Infrastructure Planning		<ul style="list-style-type: none"> • Civil Engineering • Urban Design and Built Environment • Engineering Sciences and Design
Associate Professor	MUROMACHI, Yasunori	Transport and the Environment, Travel Behavior		<ul style="list-style-type: none"> • Urban Design and Built Environment • Civil Engineering
Associate Professor	SASAKI, Ei-ichi	Bridge Engineering & Structural Engineering		<ul style="list-style-type: none"> • Civil Engineering • Engineering Sciences and Design
Associate Professor	TAKEMURA, Jiro	Soil Mechanics & Geo-environmental Engineering		<ul style="list-style-type: none"> • Civil Engineering • Engineering Sciences and Design
Associate Professor	WIJEYEWICKREMA, Anil C.	Earthquake Engineering, Structural Engineering, Solid Mechanics		<ul style="list-style-type: none"> • Civil Engineering • Engineering Sciences and Design