APPLICATION GUIDELINES
Doctoral Program, Graduate School of Engineering, Tottori University
Special Green Sustainable Chemistry Program in Collaboration
with Southwest Asia for 2025
- October Admission -

The Department of Engineering of the Graduate School of Sustainability Science, Tottori University (Special Green Sustainable Chemistry Program in Collaboration with Southwest Asia) recruit students who wish to study Engineering according to the following guidelines.

1. Number of Enrollments

Department	Number of Enrollments
Department of Engineering	a few

2. Qualifications for Application

Applicants must be foreign students and must be proficient English. Applicants must contact with a professor from their preferred department before submitting an application.
Applicants must fulfill at least one of the following categories:
(1) Persons who hold a master's degree or expect to obtain a master's degree by September 30, 2025.
(2) Persons who have received a degree equivalent to a master's degree or expect to receive a degree equivalent to a master's degree by September 30, 2025.
(3) Persons who have received a degree equivalent to a master's degree or expect to receive a degree equivalent to a master's degree by September 30, 2025, after completing correspondence courses offered by foreign schools in Japan.
(4) Persons who have completed a course of study in Japan at an educational institution that has been designated by MEXT as having a foreign graduate school curriculum, and who have been conferred a degree equivalent to a master's degree, or who expect to be conferred a degree equivalent to a master's degree by September 30, 2025.
(5) Persons who have completed a course of study at a United Nations University and have been conferred a degree equivalent to a master's degree or expect to be conferred a degree equivalent to a master's degree by September 30, 2025.
(6) Those designated by MEXT.

3. Application Procedure

3.1 Choice of Desired Academic Supervisor

1. The applicant must choose a desired supervisor. Please contact the desired supervisor in advance before applying. Applications are accepted only with the permission of the desired supervisor.

2. In addition, applicants must contact the Academic Affairs Division, Faculty of Engineering (email address: en-kyoumu@ml.adm.tottori-u.ac.jp) by May 30, 2025, to know how to transfer the Examination Fee.

3.2 Application Period

Applications must be submitted from June 2 to June 6, 2025. Any applications received after this date will not be accepted.

3.3 Application Documents

Applicants should send the following documents to the Academic Affairs Division, Faculty of Engineering, by EMS (Express Mail Service) or international courier service.

1. Application Form for Admission (Form 1)
2. Admission Cards with photos (in duplicate)
   *The photos can be submitted as data files as well
3. Letter of Recommendation（Form 2）
4. Summary of Master's Thesis（Form 3）
5. List of Research Achievements（Form 4）
6. Research Plan（Form 5）
7. Master's Degree Certificate Obtained or Expected *must be original
8. Certified Academic Record
   This must be an original official transcript of all graduate schools attended; some other similar documents if these cannot be issued. The envelope must be by sealed the sending office
9. Examination fee of 30,000 yen.
   Please transfer the Examination Fee by June 6, 2025. Please note that we never refund the Examination Fee you paid under any circumstance except in the following cases.
   （1）In the case of paying the Examination Fee but not submitting documents for the application
   （2）In the case of paying the Examination Fee but not accepting documents for the application
   （3）In the case of paying the Examination Fee twice
   If applicable (1) ~ (3), please be sure to contact the Academic Affairs Division, Faculty of Engineering (email address: en-kyoumu@ml.adm.tottori-u.ac.jp).
   Applicants are informed by email how to get a refund on the Examination Fee.
10. Certificate of Residence, etc.
    Foreigners residing in Japan should submit a copy of their Residence Card (both sides) or a Certificate of Residence that is issued by the city or town offices they live in. Other foreigners should submit a copy of their passport.

3.4 Note

1. Only complete and correct application forms and documents will be accepted.
2. The application documents are non-substitutable once received by the Academic Affairs Division, Faculty of Engineering. If original certificates are only issued once officially, duplicates (copies) that's attested to by your university (with official seal/stamp) can be accepted as original.
3. The application documents received will not be returned.

4. Screening
4.1 Screening Procedure

Applicants will be evaluated based on document screening and oral examination.
1. Document Screening
   Based on the academic transcript, basic knowledge will be evaluated.
2. Oral examination
   The interview will be on From Friday, July 4 to Thursday, July 10 2025. Applicants not based in Japan may be interviewed online but must consult in advance (i.e., before applying) with the professor who will become their adviser.

5. Applicants With Disabilities

The University provides consultation for applicants with disabilities who need special assistance during the entrance examination or enrollment after admission. Please submit a written statement with the following information and a medical certificate to the

Academic Affairs Division, Faculty of Engineering by Friday, May 23, 2025.

If the University deems it necessary, it will interview the applicants or other related persons who can speak on their behalf. In addition, those who need assistance after the deadline due to an accident or other reason should contact the prospective supervisor immediately.

1. Name of applicant, address and telephone number
2. School from which you graduated
3. Course and Field of your choice
4. Type and degree of disability
5. Attention needed upon examination
6. Attention needed while attending graduate school
7. Measures and supports provided at previous schools
8. Conditions of daily life

6. Announcement of Screening Results

The screening results will be posted on the Tottori University website on Wednesday, July 23, 2025, at approximately 11:00.
(https://www.admissions.adm.tottori-u.ac.jp/).

7. Admission Process

Instructions for admission process will be individually notified to accepted applicants.
1. Processing Documents etc.
   Dossier, photograph mount for student ID etc.
2. Entrance Fee 282,000 Japanese Yen (Tentative)
3. Tuition Fees 535,800 Japanese Yen / year [First Semester: 267,900 Yen, Second Semester: 267,900 Yen] (Tentative)
   - Tuition Fees must be paid in November (First Semester) and May (Second Semester)
   - Payment instructions will be provided to accepted applicants
   (NOTES) a. Once submitted, the entrance fee will not be refunded under any conditions.
   b. Students who wish to get an entrance/tuition fees waiver (or collection postponement) should not submit the entrance/ tuition fees upon admission process.
   c. Above stated entrance/tuition fees amounts are tentative and may change at any time. Students will be asked to pay the revised amount while taking courses at Tottori University.
4. Personal Accident Insurance for Students Pursuing Education and Research
   1) Gakkensai：This is an accident insurance which covers injuries occurred as a result of a sudden accident while insured students are participating in regular or extracurricular activities, being on campus, or commuting to school. Insurance premiums (3 years): 2,600 yen Department in charge: Health Science Center (E-mail: hokekan-jimu@ml.adm.tottori-u.ac.jp)
   2) Insurance for International Students: This insurance provides a wide range of support for student life, including personal liability, permanent disability, medical expenses for daily injuries, rescue expenses, and accidental damage to household goods in the residence.
      Insurance amount (2 years): The amount varies depending on the type.
      Department in charge: International Affairs Division
      (Tel+81-85731-5056, E-mail: kokuko-gaku@ml.adm.tottori-u.ac.jp)
      Department in charge: International Affairs Division
      (Tel:+81-857-31-5056,E-mail:kokuko-gaku@ml.adm.tottori-.ac.jp)
5. Place of Admission Process 4-101 Koyama-cho Minami, Tottori
   Academic Affairs Division, Faculty of Engineering, Tottori University

8. Inquiries

Please contact the prospective supervisor for application, examination, or admission inquiries.

Field of Education-Research, Supervisor and Research Theme※

※Subject to change due to personnel changes

Course	Field of Education-Research		Supervisor Place to Contact	Research Theme
Mechanical Engineering	Materials and Mechanics	Solid Mechanics	◎ MATSUNO, Takashi matsu■tottori-u.ac.jp SHIMIZU, Kazuyuki ksmz■tottori-u.ac.jp	・Forming of high-strength metal material ・Identification of post-necking plastic deformation behavior of metal materials ・Multi-scale analysis of plastic deformation induced damage expansion ・Image-base inverse analysis for micro/nano damaging behavior ・Deformation and fracture analysis of materials by synchrotron X-ray imaging
		Materials Science and Engineering	◎ CHEN, Zhongchun chen■tottori-u.ac.jp ONDA, Tetsuhiko onda■tottori-u.ac.jp	・Fabrication and characterization of thermoelectric materials ・Development of novel high-strength and high-ductility titanium alloys using additive manufacturing , ・Additive manufacturing of maraging steels and stainless steels ・In-situ synthesis and multiple toughening of ceramic-matrix composites ・In-situ synthesis of ceramic-reinforced aluminum-matrix composites ・Extrusion of aluminum-carbon composites with high thermal conductivity ・Development of novel antiviral materials and improvement of their durability
	Design and Manufacturing	Reliability and Design Engineering	◎ ONO, Yuichi ono■tottori-u.ac.jp NISHI, Ryosuke nishi■tottori-u.ac.jp	・Study on fatigue damage evaluation of metals ・Study on experimental stress analysis ・Study on improving strength of gear ・Study on modeling traffic flows ・Study on the methodology of easing traffic jams
		Manufacturing Engineering	◎ SATO, Masahiko sato■tottori-u.ac.jp	・High precision machining of difficult-to-cut materials ・Measurement and evaluation of machining temperature ・Evaluation of processed metal material surface
	Robotics and Mechatronics	Mechanical Dynamics and Mechatronics	◎ TAMURA, Atsutaka a-tamura■tottori-u.ac.jp HONGU, Junichi hongu■tottori-u.ac.jp	・Study on injury biomechanics ・Human body modeling and mechanical characterization of biological materials ・Crash simulation ・Study on vibration and noise reduction of machine ・Development of anomaly detection technique of machine
		Control and Robotics	◎ TSUJITA , Katsuyoshi ktsujita■tottori-u.ac.jp NAKATANI, Shintaro snakatani■tottori-u.ac.jp	・Research on the high functionality of legged mobile robots ・Functional design and motion control of spacecraft ・Research on the development of human motion assistive systems ・Robots for inspection, diagnostic and healthcare ・Biosignal measurements and processing ・Brain-machine interface for rehabilitation

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Course	Field of Education-Research		Supervisor Place to Contact	Research Theme
Mechanical Engineering	Thermo-Fluid Dynamics	Space Propulsion Engineering	◎ KATSURAYAMA, Hiroshi katsurayama■tottori-u.ac.jp	・Research on energy conversion process of laser propelled rockets ・Application of laser detonation waves to ultrafast wind tunnels ・Development of atmospheric entry decelerator using magnetohydrodynamic force
		Fluid Engineering	◎ SAKAI, Takeharu tsakai■tottori-u.ac.jp MATSUNO, Takashi matsuno■tottori-u.ac.jp ODA, Tetsuya odate■tottori-u.ac.jp	・Development of thermal protection system for space vehicles ・Aerothermodynamics, Ablation, radiation, and surface thermochemistry ・Simulation of High-Temperature Processes ・Aerodynamic drag reduction of Aircraft and Ground Vehicles ・Active flow control using plasma actuators ・Research of flow field by numerical simulations ・Research on liquid fuel atomization and spray combustion ・Developments of spray measurement technique ・Engine combustion analysis and emission reduction
Applied Mathematics and Physics	Physical Mechanics	Mathematical Engineering of Complex Systems	◎ FURUKAWA, Masaru furukawa■tottori-u.ac.jp	・Theory and simulation of magnetohydrodynamics for magnetically confined fusion plasmas ・Equilibrium and stability analysis of plasmas based on Hamiltonian dynamics theory ・Structure-preserving numerical simulation algorithms
		Mathematical Material Science	◎ NADA, Hiroki hnada■tottori-u.ac.jp TAKAE, Kyohei takae■tottori-u.ac.jp	・Metadynamics study on crystallization mechanisms ・Machine learning study on amorphous structures and material shapes ・Mechanism of crystallization control by functional molecules ・Nonequilibrium dynamics in soft matter and liquids ・Phase transition in soft crystals
		Electronic structure calculation/ Computational Physics and Engineering	SAKAKIBARA, Hirofumi sakakibara■tottori-u.ac.jp	・Performance simulations on functional materials using first-principles calculations ・First-principles derivation of many-body models used in performance simulations ・Development of highly accurate and efficient solver for many-body problems ・Prediction of correlated superconducting materials using first-principles calculations ・Theoretical investigation on exotic transition such as excitonic transition ・Design of artificial materials such as thin film and superlattice

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Course	Field of Education-Research		Supervisor Place to Contact	Research Theme
Applied Mathematics and Physics	Physical Engineering	Nano Dynamics and Tribology/ Molecular Fluid Dynamics	◎ MATSUOKA, Hiroshige 　hiro■tottori-u.ac.jp ISHIKAWA, Takumi 　tishikawa■tottori-u.ac.jp DOI, Toshiyuki 　doi■tottori-u.ac.jp	・Research on molecular gas/liquid-film lubrication ・Research on computational tribology ・Research on dynamics of information storage systems ・Research on molecular interactions and surface interactions ・Ultra-high accuracy measurements of tribological phenomena ・Research on rarefied gas flows
		Bio and Fluid Mechanics	◎ GOTO, Tomonobu 　goto■tottori-u.ac.jp NAKAI, Tonau 　nakai■tottori-u.ac.jp	・Micro-flow analysis, observation and numerical simulation ・Collective and cellular level behavior of micro-organisms ・Observation and numerical simulation of bacterial chemotaxis ・Aeroacoustics, sound generation mechanism and noise reduction ・Acoustic impedance measurement of an aperture in the presence of mean flow
		Renewable Energy Engineering	◎ HARA, Yutaka 　hara■tottori-u.ac.jp	・Research and development of advanced technology of wind turbine ・Computational fluid dynamics of wind turbines ・Research on optimal layout of small wind turbines

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Course	Field of Education-Research	Supervisor Place to Contact	Research Theme
Information and Knowledge Engineering	Intelligent Control	◎ KUSHIDA, Daisuke 　kushida■tottori-u.ac.jp TAKEMORI, Fumiaki 　take■tottori-u.ac.jp	・Quantification of sensation based on biological signal ・Motion evaluation system based on image processing ・Decision-making modeling and extraction of empirical rules ・Control design of human power assist system ・Intelligent control for mobile robot
		◎ YOSHIKAWA, Nobukazu 　nyoshi■tottori-u.ac.jp	・Optical sensing and measurement ・Digital holography ・3D display ・Imaging through scattering media
	Computer Science and Technology	◎ KAWAMURA, Takao 　kawamura■tottori-u.ac.jp ◎ TAKAHASHI, Kenichi 　takahashi■tottori-u.ac.jp HIGASHINO, Masayuki 　higashino■tottori-u.ac.jp	・Distributed systems ・Social information systems ・Agent system ・Network and information security
		◎ MURATA, Masaki 　murata■tottori-u.ac.jp MURAKAMI, Jinichi 　murakami■tottori-u.ac.jp	・Natural language processing ・Information retrieval, information extraction ・Machine translation ・Machine learning
	Knowledge Engineering	◎ YOSHIMURA, Kazuyuki 　kazuyuki■tottori-u.ac.jp SHIMIZU, Tadaaki 　tadaaki■tottori-u.ac.jp	・Nonlinear science ・Information processing using nonlinear dynamics ・Digital speech signal processing ・Signal processing using neural networks
		◎ KIMURA, Shuhei 　kimura■tottori-u.ac.jp TOKUHISA, Masato 　tokuhisa■tottori-u.ac.jp	・Evolutionary computation ・Bioinformatics ・Semantic and emotion analysis in natural language processing ・Information technology applications in tourism

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Course	Field of Education-Research	Supervisor Place to Contact	Research Theme
Information and Knowledge Engineering	Knowledge Engineering	◎ IWAI, Yoshio 　iwai■tottori-u.ac.jp 　AOKI, Kota 　aoki.k■tottori-u.ac.jp	・Computational interaction ・Pattern recognition ・Human media processing ・Augmented reality
		◎ NISHIYAMA, Masashi 　nishiyama■tottori-u.ac.jp	・Image recognition ・Video analysis ・Human interface
Electrical and Electronic Engineering	Information and Control Engineering	◎ NAKAGAWA, Tadao 　nakagawa■tottori-u.ac.jp	・Wireless communications and optical wireless communications for wearable devices ・High-precision signal processing for biomedical sensors ・Radio frequency circuit design
		◎ SASAOKA, Naoto 　sasaoka■tottori-u.ac.jp	・Speech enhancement ・Digital wireless communication system ・Active noise control
		◎ KONDO, Katsuya 　kondo■tottori-u.ac.jp	・Computer vision ・Bioimage analysis and medical engineering ・Development of smart measurement control system
	Electrical and Electronic Systems Engineering	◎ NAKANISHI, Isao 　nakanishi■tottori-u.ac.jp	・Application of digital signal processing ・Biometrics person authentication ・Speech signal processing
		◎ OHKI, Makoto 　mohki■tottori-u.ac.jp	・Many-objective optimization algorithms ・Constrained many-objective optimization algorithms ・Multi-objective combinatorial optimization problems including symbols and numerics
		◎ SAITO, Kentaro 　aitouken■tottori-u.ac.jp	・Wireless communication systems ・IoT systems ・Application of drones to wireless communication systems
		MISHIBA, Kazu 　mishiba■tottori-u.ac.jp	・Image processing ・Computational photography

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Course	Field of Education-Research	Supervisor Place to Contact	Research Theme
Electrical and Electronic Engineering	Electronic Materials and Device Engineering	◎ ICHINO, Kunio ichino■tottori-u.ac.jp	・Study on wide bandgap semiconductors for optical/power devices ・Study on high-efficiency solar cells ・Study on high-efficiency ultraviolet/visible light-emitting devices
		ABE, Tomoki abe■tottori-u.ac.jp	・Study on crystal growth of wide bandgap semiconductors ・Development of blue-ultraviolet optical detectors (avalanche photodiodes) ・Development of blue-ultraviolet optical modulators ・Development of high efficient ultraviolet light emitting devices
		◎ OHMI, Koutoku ohmi■tottori-u.ac.jp	・Research on electroluminescent displays ・Development of wavelength conversion phosphor film for plant growth ・Development of wavelength conversion phosphor film for solar panel ・Research on phosphors for white LED applications
		◎ NISHIMURA, Ryo ryo■tottori-u.ac.jp	・Application of renewable energy technology, such as desalination of brackish water, for arid-land development ・Application of electrostatics and high voltage technology ・Photovoltaic power generation
		◎ LEE, Sang-Seok sslee■tottori-u.ac.jp	・MEMS devices for bio/chemical/medical applications ・Sensors for IoT and IoT systems ・Design and application of metamaterials ・RFMEMS and RF devices
		◎ MATSUNAGA , Tadao matsunaga■tottori-u.ac.jp	・Development of minimally invasive medical devices utilizing microfabrication techniques (MEMS) ・Development of ultra-thin fiber-optic MEMS sensor ・Development of micro sensors for robotic surgery ・Development of tactile display using micro actuators ・Study on non-planar photofabrication techniques

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Course	Field of Education-Research	Supervisor Place to Contact	Research Theme
Applied Chemistry	Green Catalysis Chemistry	◎ KATADA, Naonobu katada■tottori-u.ac.jp TSUJI, Etsushi e-tsuji■tottori-u.ac.jp TSUNOJI, Nao tsunoji■tottori-u.ac.jp	・Principles and application of zeolites and solid acid catalysis ・Conversion of heavy oil components, methane, biomass and plastic waste into useful materials ・Synthesis of functional nanostructured materials ・Development of electrocatalysts and co-catalysts for water splitting and CO_2 reduction ・On-demand zeolite synthesis for property design ・Carbon capture and utilization, and environmental purification
	Main Group Element Chemistry	◎ NANJO, Masato nanjo■tottori-u.ac.jp	・Synthesis of ionic liquids consisting of heavy group 14-elements and application to electrochemical devices ・Design and synthesis of functional organosilicon and organogermanium compounds, and development of electronic materials
	Applied Electrochemistry	USUI, Hiroyuki usui■tottori-u.ac.jp DOMI, Yasuhiro domi■tottori-u.ac.jp	・Synthesis of lithium, sodium, or potassium storage intermetallic compounds and their properties as anode materials in rechargeable batteries ・Development of all solid-state secondary batteries ・Development of energy storage materials based on photovoltaics ・Reaction behavior analysis of electrode in rechargeable batteries
	Molecular Self-assembly	◎ MATSUURA, Kazunori ma2ra-k■tottori-u.ac.jp INABA, Hiroshi hinaba■tottori-u.ac.jp	・Creation and application of artificial virus structures ・Construction of nanostructures by self-organization of biomolecules ・Creation of light-responsive biomolecular systems ・Creation of functional materials applying inner space of microtubules
	Organic and Polymer Materials Chemistry	◎ AGO, Mariko mariko.ago■tottori-u.ac.jp	・High-throughput synthesis for functional nanoparticles ・Photo-thermal conversion with porous carbon particles ・Sustainable development of functional materials from under-utilized biomass resources ・UV-blocking properties of nano-, micro-particles derived from natural polymers ・Mechanisms of stabilisation of Pickering emulsions and development of their applications. ・Development of a rapid analysis method for microplastics released into the environment.
	Synthetic Organic Chemistry	◎ NOKAMI, Toshiki tnokami■tottori-u.ac.jp	・Molecular Glycoscience ・Organic Electrochemistry ・Functional Ionic Liquids
	Inorganic Materials Chemistry	◎ MASUI, Toshiyuki masui■tottori-u.ac.jp	・Synthesis and application of environment-friendly color materials ・Design of new phosphors based on rare earth compounds ・Development of inorganic sunscreens ・Preparation of heterogeneous catalysts containing rare earth elements

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Course	Field of Education-Research	Supervisor Place to Contact	Research Theme
Biotechnology	Biofunction Development Engineering	SUZUKI, Hirokazu hirokazusuzuki■tottori-u.ac.jp YAGI Hisashi yagi■tottori-u.ac.jp	・Discovery and application of novel functions of microorganisms and marine algae ・Application and development of the functions of microorganisms and marine algae to the practical production of useful substances and the solutions of environmental problems ・Fundamental studies: enzymology, molecular genetics, and protein engineering of enzymes involved in the metabolisms of physiologically active substances and new generation carbon sources in microorganisms and marine algae ・Directed evolution approaches to enhance enzyme stability using error-prone thermophiles ・Development of new medical materials using unutilized marine resources
	Biocatalyst Engineering	◎ OKAMOTO, Kenji okamoto■tottori-u.ac.jp HARADA, Hisashi harada■tottori-u.ac.jp	・Isolation and production of bioactive compounds from basidiomycetes ・Determining the mechanism of action of bioactive compounds from basidiomycetes ・Production of lignocellulose-degrading enzymes, ethanol and xylitol by basidiomycetes ・Pathway engineering for the production of functional isoprenoids ・Functional characterization of isoprenoid biosynthesis genes in higher plants and microalgae ・Production of useful materials by microalgae
	Protein Engineering	◎ MIZOBATA, Tomohiro mizobata■tottori-u.ac.jp AOKI, Eriko eaoki■tottori-u.ac.jp	・Structure and function of enzyme and protein ・Protein folding ・Protein stability and conformational change ・Molecular chaperone and protein fibrillogenesis (aggregation)
	Bioorganic Chemistry	◎ HANASHIMA, Shinya hanashima■tottori-u.ac.jp	・Flexible bioorganic molecules: Interactions and biological functions ・Organic molecules targeting lipid bilayers: Mechanistic insights and development ・Organic synthesis of biomolecules
	Structural Biology	◎ NAGANO, Shingo snagano■tottori-u.ac.jp HINO, Tomoya t_hino■tottori-u.ac.jp SATO, Yusuke yusato■tottori-u.ac.jp	・Structural biology of natural products biosynthesis ・Molecular basis of nitrogen metabolism by anammox bacteria ・Structural biology of thermal sensation ・Structural biology of membrane proteins ・Structural biology of ubiquitin signaling

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Course	Field of Education-Research	Supervisor Place to Contact	Research Theme
Civil Engineering	Structural and Concrete Engineering	◎ TANIGUCHI, Tomoyo 　t_tomoyo■tottori-u.ac.jp NOGUCHI, Tatsuya 　noguchit■tottori-u.ac.jp	・Structural design of infra-, mechanical and offshore structures ・Earthquake-resistant performance of infra-, mechanical and building structures ・Maintenance of infra-,mechanical and offshore structures ・Earthquake response evaluation of subsurface and building structures ・Hazard assessment of natural disasters by GIS and satellite technology
		◎ KURODA, Tamotsu 　tkuroda■tottori-u.ac.jp	・Application of industrial waste products to concrete ・Durability assessment of concrete and concrete structures ・Repair and strengthening for concrete and concrete structures ・Prediction of deterioration and maintenance for concrete structures
	Geotechnical and Rock Engineering	NAKAMURA, Koichi 　nak_x■tottori-u.ac.jp	・Constitutive properties of saturated and unsaturated soils ・Slope disaster mitigation and monitoring
		◎ ONO, Yusuke 　ysk■tottori-u.ac.jp KOHNO, Masanori 　kohnom■tottori-u.ac.jp	・Earthquake response analysis of earth structures ・Numerical simulation of geohazards ・Hazard risk assessment for slope disaster ・Evaluation of properties of clay mineral-bearing geomaterials ・Properties of rock mass including macro-fracture filled with clay minerals
	Hydraulic and Coastal Engineering	WADA Takashi 　wada-t■tottori-u.ac.jp	・Sediment transport and bed deformation in non-uniform sediment beds ・Bed deformation and channel evolution due to sediment supply to riverbed ・Effects of river structure on sediment dynamics ・Debris flow mechanics ・Sediment-transport process in a river system from mountainous area to estuary
		◎ KUROIWA, Masamitsu 　kuroiwa■tottori-u.ac.jp ◎ KAJIKAWA, Yuki 　kajikawa■tottori-u.ac.jp	・Numerical model of waves and nearshore currents ・Coastal sediments and Prediction of coastal geomorphological change ・Maintenance of river-mouth, port and harbor ・Coastal disaster and monitoring ・Numerical analysis of topography change due to river flow or tsunami
	Civil Engineering Geo-spherical Environmental and Architectural Engineering	◎ KAGAWA, Takao 　kagawa■tottori-u.ac.jp	・Research for sophisticating strong ground motion estimation ・Effects of fault rupture process and surface geology on earthquake ground motion ・Exploration and modeling of underground structures based on geophysical methods
		TSUJII, Maiko K. 　m.tsujii■tottori-u.ac.jp	・Architectural planning ・Citizen co-creation of public architecture. ・Preservation and utilization of historical buildings.

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Course	Field of Education-Research	Supervisor Place to Contact	Research Theme
Social Management Engineering	Management Systems	◎ NAGAE,Takeshi nagae■tottori-u.ac.jp	・Multi-regional computable general equilibrium model and its application ・Design of residential and road space in a society with decreasing population ・Management and pricing of infrastructure projects under dynamic uncertainty ・Infrastructure planning and management, transportation engineering, regional science and urban economics
	Urban Planning	◎ FUKUYAMA, Kei fukuyama■tottori-u.ac.jp	・Institutional design and analyses of regional socio-economic systems ・Public policy evaluation ・Infrastructure planning and management, and urban planning
	Information Systems	◎ KUWANO, Masashi kuwano■tottori-u.ac.jp MINAMINO, Yuka minamino■tottori-u.ac.jp	・Activity – travel behavior analysis ・Big data based planning theory ・Infrastructure planning and management, transportation engineering, and urban planning ・Service quality control and evaluation ・Decision making models
	Public Systems	◎ TANIMOTO, Keishi tanimoto■tottori-u.ac.jp CHOSOKABE, Madoka mchoso■tottori-u.ac.jp	・Methodologies for sustainable society planning ・Planning theory of local transport system ・Design and analysis of daily support services ・Design of participatory planning process ・Analysis and evaluation of regional management organization
	Disaster Prevention Planning and Infrastructure Maintenance Engineering	◎ OTA, Takao ohta■tottori-u.ac.jp EMOTO,Hisao emoto■tottori-u.ac.jp	・Soft measures for disaster prevention based on evacuation simulation ・Performance evaluation of coastal disaster prevention facilities ・Maintenance management model for infrastructure ・Bridge management support system by XR and AI ・Road pavement management system by AI and motion sensor
	Environmental Planning	◎ MIYAMOTO, Yoshikazu miyamoto■tottori-u.ac.jp TAKABE, Yugo takabe.yugo■tottori-u.ac.jp	・Social design on watershed or rural environmental management ・Design for the preservation of environments ・Disaster risk management for adaptation to climate change ・Application of microorganisms for establishing recycling-based society– ・Water quality control and management ・Current issues in global environmental protection

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