Q-PELS - Kyushu University Program for Emerging Leaders in Science -

Introduction

Kyushu University is recognized as a leading science university internationally.

Kyushu University's Program for Emerging Leaders in Science (Q-PELS) is a research-oriented student exchange program for graduate and undergraduate students.

Q-PELS provides students with hands-on experience at a wide range of top-level laboratories* to enrich their knowledge and skills. We believe students from our prestigious partner universities can make a future research hub by collaborating and networking in this program.

*Please check the attached list.

Eligibility

Q-PELS applicants must meet the following requirements.

- Applicants must be full-time registered degree-seeking students at their home institution with a student exchange agreement with Kyushu University.
- Applicants must be in excellent academic performance at their home institutions (GPA 3.2/4.0).
- Applicants must be reminded as full-time registered degree-seeking students at their home institution after completing this program.

(Graduation/completion of a regular course of study at their home universities during participation in this program is not acceptable.)

- Applicants must meet other requirements by the host laboratory or host faculty member.

Language Requirements

Q-PELS applicants must meet one of the following language requirements.

<For English proficiency>

- TOEFL iBT 80 or higher
- IELTS 6.0 or higher
- Cambridge English with CEFR B2 level or higher

- Official document (certificate/letter) which proves English is the medium of instruction at their school/graduate school/faculty.

<For Japanese Proficiency>

- JLPT N2 or higher

Student Workload

| Category Name | TYPE1* 32days - 3months | TYPE2 Semester (15 weeks) | TYPE3 Full-year (30 weeks) | | |
|--|--|---------------------------------|----------------------------------|--|--|
| Period | June.2025- Sep.2026 | Oct.2025- Feb.2026 | Oct.2025- Aug.2026 | | |
| Contact Hours (i.e. hours you spend in the assigned Lab) | | 420 | 840 | | |
| Supervised Study (Meeting with their supervisor) | | 20 | 40 | | |
| Independent research hours | Arrange with their host labs /faculty | 210 | 420 | | |
| Tutorial (Supplementary advised from senior students) | member | 30 | 60 | | |
| Preparation hours | | 40 | 80 | | |
| Other Laboratory Activities | | 30 | 60 | | |
| Total Student Workload | N/A | 750 | 1500 | | |
| Student Workload ECTS Equivalent (25hrs 1ECTS) | N/A | 30 | 60 | | |

ECT: European Credit Transfer and Accumulation System

*TYPE1: TYPE 1 applicants will arrange with the host lab to determine the length of study abroad, which will be between 32 days and 3 months.

<Mandatory Assignment>

- Poster presentation (full-year student)

- Oral presentation (at the end of the exchange term)

- Other assignments as assigned by your host laboratory or faculty member

*Numbers indicate hours per semester or a full year. On average, daily contact hours will be 5.6 hours. The above ECTS-compliant table can be referred to facilitate credit transfer between Kyushu University and partner institutions.

Note:

- The ECT equivalent will be awarded based on the 'Total Student Workload' when performances are

approved by the committee members.

- Q-PELS students are not required to complete a thesis; however, the activities during the program could be a part of a master/doctoral thesis with permission from an academic advisor)
- Other than Contact hours are estimated that vary by laboratory.

Student Status

- •32days 3 months (No credits at KU)
- <Both Graduate and Undergraduate student> Trainee Student or Short-term Visiting Student
- Semester/Full-year
- <Undergraduate student> Special Auditing Student

<Graduate Student> Special Research Student or Special Auditing Student

Note:

Special Auditing Students are allowed to take other credited courses at KU.
 (Courses conducted in English) <u>https://www.isc.kyushu-u.ac.jp/intlweb/en/student/english</u>
 (Japanese classes for Undergraduate students) <u>https://isc.kyushu-u.ac.jp/center/jacs/</u>
 (JTW core courses) <u>https://isc.kyushu-u.ac.jp/jtw/nonjtw</u>

Completion

Students who complete the mandatory assignments and are approved by the program's host school/graduate school will be issued a Certificate of Completion signed by the dean of the host school.

| | | Category | | Со | urse | | Host Laboratry | / Information | | | | Maximum | |
|-------------|--------------------|-----------------------|--|---------------|----------|-----------|----------------|--------------------|--------------|--|---|-------------------|-------------------------------------|
| Course code | TYPE1 | TYPE2 | TYPE3 | | | Faculty N | lember(s) | School/ | | Research Description | Pre-Requisites | partcipants | Keywords |
| | 32days- 3months | Semester Fall 2025 | Full-year Fall 2025- Spring 2026 | Undergraduate | Graduate | Surname | First Name | Graduate school | Department | | | per period | |
| | | | | | | FUKUDA | Jun-ichi | | | Theoretical study of soft matter physics (liquid crystals, polymers, glasses, supercooled liquids, etc.) and biophysics. More information can be found at | Programming experience is desirable, although not | | Soft Matter Physics |
| | | | | | | MATSUI | Jun | | | https://www.sci.kyushu-u.ac.jp/e/departments/phys/labo/condensed.html. | mandatory. | 1 | Liquid Crystal |
| 0004004 | | | | | | TARAMA | Mitsusuke | Osianas | Dhuning | | | | Polymer |
| 5024001 | 0 | 0 | - | 0 | 0 | | | Science | Physics | | | | Glass |
| | | | | | | | | - | | | | | Supercooled liquid |
| | | | | | | | | - | | | | | biophysics |
| | | | | | | Inagaki | Shio | | | Physics of granular matter has been a main research topic in our research group. A collection of dissipative solid particles (granular matter) shows | Background in Physics, especially mechanics and | | Non-equilibrium statistical physics |
| | | | | | | | | | | various intriguing phenomena such as size segregation, convective flow, pattern formation, flow clogging, non-Gaussian statistics, etc. We are | statistical physics. | | Complex systems |
| | _ | _ | _ | _ | | | | | | striving to reveal the fundamental physics of granular behaviors. We mainly work on experiments but also numerical simulations such as Discrete | | | Granular physics |
| SC24002 | 0 | 0 | 0 | 0 | 0 | | | - Science | Physics | Element Method. | | 2 | Molecular dynamics simulation |
| | | | | | | | | | | | | | Experiments |
| | | | | | | | | | | | | | |
| | | | | | | Тојо | Junji | | | Our laboratory carries out a wide range of the experimental particle physics programs. Our focus is especially to search for a new physics beyond the | Experience of general physics experiment and learning of | | Experimental particle physics |
| | | | | | | | | | | Standard Model of particle physics in high-energy frontier experiments and in several experiments using muon. Students have opportunities to join | introductory particle physics. | | |
| 0.00 (000 | - | | - | | 0 | | | | D I . | those programs. | | | |
| SC24003 | 0 | 0 | 0 | - | 0 | | | Science | Flysics | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | Ohba | Masaaki | | | The Ohba Lab (Physical Coordination Chemistry) focuses on functions and properties of the "space" formed by assembled metal complexes. Our | | | Coordination Chemistry |
| | | | | | | Ohtani | Ryo | | | interests are in novel properties based on magnetic, dielectric and luminescence properties incorporated in the framework of space, and | | | Metal-organic framework (MOF) |
| 8024004 | 0 | 0 | 0 | 0 | 0 | LeOuay | Benjamin | Saianaa | Chamiota | functions based on enzyme-metal complex composites. We develop research in the interdisciplinary field of chemistry, physics, and biology with | | | Metal-organic polyhedra (MOP) |
| 3024004 | 0 | 0 | 0 | 0 | 0 | | | Science | Chemistry | a focus on coordination chemistry. | | | Functional Material |
| | | | | | | | | | | | | | Metal complex-enzyme composite |
| | | | | | | | | | | | | | |
| | | | | | | Terasaki | Akira | - | | Physical chemistry of atomic and molecular clusters by means of mass spectrometry and laser spectroscopy. | Interest in experimental physics and chemistry | | Physical chemistry |
| | | | | | | Horio | Takuya | - | | Please visit http://www.scc.kyushu-u.ac.jp/quantum/index_e.php for further information. | | Na | Nanoscience |
| SC24005 | 0 | 0 | 0 | 0 | 0 | | | Science | Chemistry | | | | Atoms, molecules, and clusters |
| 0024000 | Ŭ | Ŭ | Ŭ | Ŭ | Ŭ | | | 000000 | chief and y | | | | Laser spectroscopy |
| | | | | | | | | 4 | | | | | Mass spectrometry |
| | | | | | | | | | | | | Reaction kinetics | |

| | | Category | | Co | urse | Host Laboratry Information | | | | | | Maximum | |
|-------------|--------------------|-----------------------|--|---------------|----------|----------------------------|-------------------|--------------------|--|---|---|---------------|---|
| Course code | TYPE1 | TYPE2 | TYPE3 | | | Faculty N | Member(s) School/ | | | Research Description | Pre-Requisites | partcipants | Keywords |
| | 32days- 3months | Semester Fall 2025 | Full-year Fall 2025- Spring 2026 | Undergraduate | Graduate | Surname | First Name | Graduate school | Department | | | per period | |
| | | | | | | Hori | Yuichiro | | | In our laboratory, we are developing chemical biology techniques to label and visualize proteins with synthetic fluorescent molecules by devising and provide the protein synthetic fluorescent molecules by devising and the synthetic fluorescent molecules by devising and provide the synthetic fluorescent mo | Knowledge of chemistry and biology | | Chemical Biology |
| | | | | | | Adachi | Junya | | | dynamically changing their localization and controlling cellular events by performing the biomolecular functions in a subcellular region where they are | | | Fluorescence imaging |
| SC24006 | 0 | 0 | 0 | _ | 0 | Kanae | Yumimoto | Science | Chemical | needed. Visualization of the movement of these biomolecules provides important information to elucidate the physiological functions they control. | | 1 | Protein chemistry |
| | | | | | | | | | | reveal how proteins move in living cells and regulate biological phenomena. Furthermore, we aim to elucidate biological phenomena regulated by nucleic | | | Synthetic fluorophores |
| | | | | | | | | | | acids, glycans, and extracellular vesicles in addition to proteins, and to control functions of biomolecules at will by making full use of our protein | | | |
| | | | | | | | | | | labeling technology. | | | |
| | | | | | | Matsushima | Ayami | | | http://chem.kyushu-univ.jp/biochem/en/ https://www.sci.kyushu-u.ac.jp/e/departments/chem/labo/struct_funct.html | Comfortable with laboratory animal care (mouse) | | Nuclear receptor |
| | | | | | | | | Science | | We have a strong interest in the molecular mechanisms of ligand-receptor interaction. Our main research targets are nuclear receptors which precisely regulate gene transcription. We focus on all nuclear receptors to elucidate | | | estrogen |
| SC24007 | 0 | 0 | 0 | | 0 | | | | Chomistry | | | 1 | transcription |
| | 0 | 0 | 0 | - | 0 | | | Science | Chemistry | their activation mechanisms comprehensively. Binding affinity is analyzed in vitro by many techniques, and transcription activity is measured by reporter. | | I | endocrine-disrupting chemical |
| | | | | | | | | | | gene assays using cultured cells. | | | opioid peptide precursor |
| | | | | | | | | | | | | | |
| | | | | | | Yoshikawa | Akimasa | | Various plasma phenomena occurring in "Geospace," the space around the Earth, and the associated space weather phenomena' effects on the Earth | The student must have a background in basic physics | | Space weather | |
| | | | | | | | | | | are studied using plasma physics, magnetospheric physics, and ionospheric physics. This course is intended for students who are interested in the solar- terrestrial environment and in the future application of space physics to space weather prediction. | such as electromagnetism and mechanics, and an interest in space physics. | 2 | Space plasma physics |
| 6634000 | | 0 | | | 0 | | | Caianaa | Earth and | | | | Space and Earth electromagnetism |
| SC24008 | 0 | 0 | - | - | 0 | | | Science | Schiences | | | | Global electromagnetic fields obserbation |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | Liu | Huixin | | | We study the upper atmosphere (thermosphere/ionosphere) of the Earth, Mars and Venus and their response to solar forcing, and lower atmosphere | Programing ability with Python or Matlab | | space weather |
| | | | | | | | | | | forcing via atmospheric waves and chemical processes. Ground/Satellite observations, along with model simulations are used to explore the physical | | | Earth and planetary atmosphere |
| 8024000 | 0 | 0 | 0 | 0 | 0 | | | Solonoo | Earth and | and chemical coupling processes between various regions of the atmosphere. | | 2 | Earth and planetary ionosphere |
| 5624009 | 0 | 0 | 0 | | 0 | | | - Science | Science | | | 3 | Earth and planetary thermosphere |
| | | | | | | | | | | | | | satellite observation |
| | | | | | | | | 1 | | | | | model simulation |

| | | Category | | Сог | urse | | Host Laboratr | y Information | | | | Maximum | |
|-------------|--------------------|-----------------------|-------------------------|--|----------|----------------------------|---------------|------------------------------------|------------------------------------|--|---|-------------|--------------------------------|
| Course code | TYPE1 | TYPE2 | TYPE3 | | | Faculty M | /lember(s) | School/ | | Research Description | Pre-Requisites | partcipants | Keywords |
| | 32days- 3months | Semester Fall 2025 | Full-year Fall 2025- | Undergraduate | Graduate | Surname | First Name | Graduate school | Department | | | per period | |
| | | | Spring 2026 | | | Hamamura | Natsuko | | | Due to rapid industrial development, discharge of a wide range of chemicals into the environment has increased dramatically in recent years. Microorganisms inhabit almost every environment on the Earth's surface | f chemicals Lab work experience (preferably in the areas of microbiology, surface molecular biology, and/or stem geochemical analyses) and lex knowledge of microbiology. | | bioremediation |
| | | | | | | | | | | and play important roles in biogeochemical processes and ecosystem function. Our overall research interest is to understand the complex interactions of microbial community functions and geochemical processes, | | | microbial metal transformation |
| SC24010 | 0 | 0 | 0 | - O System Life Sience/ Science/Dept. Biological Sience/Dept. Biological Sienc | 1 | microbial electrochemistry | | | | | | | |
| | | | | | | | | Science | of Biology | physiochemical changes. Interdisciplinary knowledge and research efforts are necessary to link genomics, ecology, and geochemical processes associated with microbial functions in the environments. | | | microbial ecology |
| | | | | | | | | _ | | Topics: 1. Environmental microbiology. 2. Geomicrobiology of metalloids. | | | environmental microbiology |
| | | | | | | | | | | Microbe-mineral interactions. Microbial ecology in the extreme environment. | | | geomicrobiology |
| | | | | | | Eriko | Sasaki | | | Our research focuses on the genetic basis of natural variation, such as flowering phenology and genome defense systems, mainly in Europe | | | Evolution |
| | | | | | 0 | | | | Biology | populations of Arabidopsis thaliana. We aim to understand how plants have adapted to various environmental conditions using genomics, quantitative genetics, and molecular biology approaches. Website (https://sites.congle.com//jiew/erkpsasaki/research/home-en) | | | Plants |
| SC24011 C | 0 | 0 | 0 | 0 | | | | Science | | | | 2 | Quantitative genetics |
| 0024011 | Ũ | 0 | 0 | Ũ | 0 | | | | | Website (https://sites.google.com/view/erikosasaki-research/home-en) | | 2 | Epigenetics |
| | | | | | | | | _ | | | | | |
| | | | | | | | | | | Que laboratore the Amelican Marine Disloring Laboratore is leasted in | | | |
| | | | | | | Arakaki | Seiji | _ | | western Kyushu (far away from the main campus). The AMBL aims at | | | Marine |
| | | | | | | | | | | elucidating how a multitude of species can coexist and maintain ecological assemblages under different environmental conditions and evolutionary | | | Community |
| SC24012 | 0 | 0 | 0 | 0 | 0 | | | Science/ System Life Science | Biology/ System Life Science | backgrounds. (Website) http://ambl-ku.jp/ | | 1 | Ecology |
| | | | | | | | | | | | | | Coastal Ecosystems |
| | | | | | | | | | | | | | |
| | | | | | | | | | | Larra interacted in dynamical austama, which departition deterministic time | Coloulus and Linear Algebra | | |
| | | | | | | Masato | Tsujii | _ | | evolutions that appear in many fields of sciences. More specifically I am | Calculus and Lineal Algebra. | | Dynamical System |
| | | | | | | | | - | | properties of dynamical systems generated by smooth vector fields or | | | Ergodic Theory |
| MA24001 | 0 | 0 | 0 | 0 | 0 | | | Mathematics | Mathematics | smooth maps. | | 2 | Chaos |
| | | | | | | | | _ | | | | | Fractal |
| | | | | | | | | | | | | | Strange Attractor |
| | | | | | | | | | | Differential geometry of smooth/discrete curves and surfaces integrable | Knowledge of fundamental | | Fractal dimension |
| | | | | | | Kajiwara | Kenji | - | | systems, geometric shape generation. Applications to architecture design | calculus, linear algebra, | al (| Curves and Surfaces |
| | | | | | | | | - | | | preferably, geometry of curves | | |
| MA24002 | 0 | 0 | 0 | 0 | 0 | | | Mathematics | Mathematics | | | 1 | |
| | | | | | - | | | _ | | | | | |
| | | | | | | | | - | | | | | |
| 1 | | | | | | | 1 | 1 | | | | | |

| | | Category | | Coι | ırse | Host Laboratry Information | | | | | | Maximum | |
|-------------|--------------------|-----------------------|--|---------------|----------|----------------------------|------------|---------------------------------|-------------|--|--|-------------|--|
| Course code | TYPE1 | TYPE2 | TYPE3 | | | Faculty N | /lember(s) | School/ | | Research Description | Pre-Requisites | partcipants | Keywords |
| | 32days- 3months | Semester Fall 2025 | Full-year Fall 2025- Spring 2026 | Undergraduate | Graduate | Surname | First Name | Graduate school | Department | | | per period | |
| | | | | | | Kaji | Shizuo | | | Professor Shizuo KAJI works in the field of applied topology. His research interests include topological data analysis, geometric models of graphs and | Knowledge of undergraduate mathematics such as linear | | Topological Data Analysis |
| | | | | | | | | | | other discrete structures for machine learning, and 3D shape analysis and design. Please visit his web page at https://www.skaii.org for more | algebra, calculus, point set topology, and metric space | | Geometric Representation |
| | _ | _ | _ | _ | _ | | | 1 | | information. | 1 357 1 | | Geometric Shape Design |
| MA24003 | 0 | 0 | 0 | 0 | 0 | | | Mathematics | Mathematics | | | 2 | Applied Topology |
| | | | | | | | | - | | | | | |
| | | | | | | | | - | | | | | |
| | | | | | | CESANA | Pierluigi | | | My lab focuses on investigating problems in materials science and chemistry using a wide range of mathematical tools. We have two main lines of research: | Flexible options are available, with various projects tailored to each student's background | | |
| | | | | | | | | | | 1. Partial Differential Equations and Continuum Models for Smart Materials: We study actuation, shape change, and mechanical instabilities induced by topological defects in (thin structures of) active materials. Some of this work is in collaboration with oroups at Caltech and Oxford For more details. see | have participated in the Q-PELS program since 2024 and, in collaboration with one Q-PELS student, have produced one research paper to date, see: https://arxiv.org/abs/2408.15457 | | Partial Differential Equations |
| | | | | 0 | | | | - | | | | | Calculus of Variations Continuum Mechanics |
| MA24004 | 0 | 0 | 0 | | 0 | | | Mathematics | Mathematics | https://arxiv.org/abs/2207.02511 https://arxiv.org/abs/1501.06859 | | 3 | Density Functional Theory Quantum chemistry |
| | | | | | | | | | | 2. Artificial Intelligence-Assisted Design and Optimization of Molecules and | nttps://arxiv.org/abs/2408.15457 | | Machine Learning |
| | | | | | | | | | | Materials: We focus on targeted applications in electronics, semiconductors, and more. This research includes collaborations with industrial partners and | | | Materials Informatics |
| | | | | | | | | - | | the Department of Applied Chemistry at Kyushu. For more information, check out our work: https://pubs.acs.org/doi/abs/10.1021/acs.jpca.3c05887. | | | |
| | | | | | | | | | | I am studving the spectral analysis of operators on an infinite dimensional | Knowledge of measure theory. | | |
| | | | | | | Hiroshima | Fumio | _ | | space. Especially, from the mathematical standpoint, we investigate the quantum field theory on pseudo-Biemannian manifolds by using operator | linear algebra, general topology | | quantum field theory |
| | | | | | | | | _ | | theory, micro-local analysis, theory of one-parameter semigroup, stochastic analysis, functional integral | | | path integral |
| MA24005 | 0 | 0 | 0 | 0 | 0 | | | Mathematics | Mathematics | | | 1 | functional analysis |
| | | | | | | | | _ | | | | | spectral analysis |
| | | | | | | | | _ | | | | | measure theory |
| | | | | | | | | | | | | | mathematical physics |
| | | | | | | Ochiai | Hiroyuki | - | | Hypergeometric functions, Representation Theory of Lie groups and Lie | necessary. | | Algebraic Analysis |
| | | | | | | | | _ | | algebra, D-modules | | | D-module |
| MA24006 | 0 | 0 | 0 | 0 | 0 | | | Mathematics | Mathematics | | | 2 | hypergeometric function |
| | | | | | | | | | | | | - | spherical function |
| | | | | | | | | | | | | | Hecke algebra |
| | | | | | | | | | | | | | Lie group |

| | Category | | | Course | | Host Laboratry Information | | | | | | Maximum | |
|-------------|--------------------|-----------------------|--|---------------|----------|----------------------------|------------|--|------------------------|---|--|-------------|---|
| Course code | TYPE1 | TYPE2 | TYPE3 | | | Faculty N | lember(s) | School/ | | Research Description | Pre-Requisites | partcipants | Keywords |
| | 32days- 3months | Semester Fall 2025 | Full-year Fall 2025- Spring 2026 | Undergraduate | Graduate | Surname | First Name | Graduate school | Department | | | per period | |
| | | | | | | Nguyen | Dinh Hoa | | | Professor Nguyen's research is on the modeling, optimization and control towards clean and autonomous power and energy systems. His particular | Basic programming; Linear Algebra; Ordinary Differential | | Control Theory |
| | | | | | | | | | | interests are on distributed control and optimization; multi-agent systems; integration of renewable and distributed energy resources; stability, | Equation | | Smart Grid |
| MA24007 | 0 | 0 | 0 | 0 | 0 | | | Mathematics | Mathematics | robustness and resiliency of smart grids. For more details, please see: https://sites.google.com/site/dinhhoanguyensite | | 1 | Optimization |
| WIN LEFOOT | 0 | 0 | Ũ | Ũ | 0 | | | Mationatos | Mathematics | | | | Multi-Agent System |
| | | | | | | | | | | | | | Renewable and Distributed Energy Resources |
| | | | | | | | | | | | | | Artificial Intelligence |
| | | | | | | Matsue | Kaname | | | Research interests in this Lab are mainly twofolds. 1: Dynamical Systems. Based on (ordinary) differential equations, various complex, singular | Knowledge of undergraduate level mathematics. Basic | | Dynamical Systems |
| | | | | | | | | | | behavior are studied. Recently, blow-up solutions and singular perturbation problems are mainly studied. 2: Numerical Analysis with application to | programming skills (like C or Python) are preferable to have. | | Numerical Analysis |
| MA24008 | 0 | 0 | 0 | 0 | 0 | | | Mathematics | Mathematics | dynamical systems. Singular nature in dynamical systems is also studied from the viewpoint of numerics. Numerical difficulties in these problems are | Students who are interested in Topic 1 (in Research | 1 | Singular Perturbation, Blow-up |
| 111/12-1000 | 0 | 0 | 0 | | 0 | | | Mationatos | Mathematics | our issues here. As an application, the following topic is also studied. 3: Combustion. | Description) are strongly welcome. | | Complex Systems involving Combustion |
| | | | | | | | | _ | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | Та | Ton | _ | | wathematical modeling Lab website. http://www.agr.kyushu-u.ac.jp/ab/ta/ | Love mathematics or applied statistics or programming | | Stochastic differential equations |
| MI24001 0 | | | | | | | | | | We study various real-world phenomena by using stochastic ordinary/partial differential equations, statistical models, or deep learning. Some topics | (MATLAB, Python,) | | Fish schooling |
| | 0 | 0 | 0 | 0 | 0 | | | School of Mathematics for innovation | Agro- Environmental | Include Fish Schooling, Forest Ecosystem, Weather Prediction. | | 3 | Deep learning |
| | | Ĵ | | | | | | | Sciences | | | | Applied statistics |
| | | | | | | | | - | | | | | Forest ecosystem |
| | | | | | | | | | | Havashi Lah/Organia Electronics Lah is fasusad on his mimatic/organia | | | Stochastic evolution equations |
| | | | | | | Kenshi | Hayashi | _ | | material devices, which detect odor information. Espetially, odor imaging device for robotic application based on two dimensional plasmonic materials. | | | gas sensor |
| | | | ſ | | | | | | | device for robotic application based on two dimensional plasmonic materials and molecular selective materials, which realize high-sensitive, high-speed and high theorematic tignalize activity and a second | | 2 | plasmonic device |
| | | | | | | | | System Life | | Fully inkjet printed sensor devices are also researched. | | | nano material |
| SL24001 | 0 | 0 | 0 | 0 | 0 | | | Science | Electronics | | | | IoT application |
| | | | | | | | | - | | | | | |
| | | | | | | | | - | | | | | |
| | | | | | | | | | | Januine Jak is forward an any invariant Diamodical and a state and | | | |
| | | | | | | Iramina | Keiji | - | | Iramina lab is focused on neuroimaging, Biomedical engineering, and Neuroengineering. We study in the fields of the measurements of brain | | | Neuroimaging |
| | | | | | | | | _ | | The elucidation of the mechanism of brain function is one of foundations of | | | Neuroengineering |
| SL24002 | 0 | 0 | 0 | 0 | 0 | | | System Life Science | System Life Science | understanding of brain information processing, and apply the research | | 4 | Biomedical engineering |
| | | | | | 0 | | | 1 | | purpose of our study. | | | |
| | | | | | | | | - | | | | | |

| | Category | | Course | | Host Laboratry Information | | | | | | Maximum | | |
|-------------|--------------------|-----------------------|--|---------------|----------------------------|------------|------------|--------------------------|--|---|---|-------------|---------------------------------------|
| Course code | TYPE1 | TYPE2 | TYPE3 | | | Faculty N | lember(s) | School/ | | Research Description | Pre-Requisites | partcipants | Keywords |
| | 32days- 3months | Semester Fall 2025 | Full-year Fall 2025- Spring 2026 | Undergraduate | Graduate | Surname | First Name | Graduate school | Department | | | per period | |
| | | | | | | Lauwereyns | Johan | | | The Lauwereyns Lab hosts research in the areas of cognitive science and bioethics, particularly with respect to meta-decision-making and cognitive | One of the following is required: 1) have studied experimental | | Bioethics |
| | | | | | | | | | | biases. We typically use eye-tracking, biometrics and behavioral measurements in our research. | psychology or cognitive science; 2) have studied bioethics; 3) | | Cognitive biases |
| SI 24003 | 0 | 0 | 0 | 0 | 0 | | | Systems Life | Systems Life | | have good programming skills (Python); or 4) have good | 2 | Meta-decision-making |
| 3124003 | 0 | 0 | 0 | 0 | 0 | | | Sciences | Sciences | | statistical skills (particularly ANOVA). | 2 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | Arata | Jumpei | | Our research aims at new medical applications based on Robotic technology. Robotic technology includes many elements – mechanism, | Fluent English conversation skills. | | Robotics | |
| 51.24004 | | | | | | | | Systems Life Sciences | | sensor, control, system integration and etc. We study about these elements to realize further effective medical applications. | Basic knowledge of Mechanical Engineering (Mathematics, | | Medical Application |
| | 0 | 0 | 0 | | 0 | | | | Systems Life | Visit our website for more details: https://amd.mech.kyushu-u.ac.jp/ | Mechanics, Mechanical Design) | 1 | Surgical robots |
| 3L24004 | 0 | | 0 | - | 0 | | | | Sciences | | | | Rehabilitation robots |
| | | | | | | | | | | | | | Bio sensors |
| | | | | | | | | | | | | | Brain-Machine Interface |
| | | | | | | Mori | Takeshi | | | We are trying to create a new concept of biomedical technology by gathering all the related knowledge. We are a heterogenous group | Knowledge of basic chemistry or basic life sciences. | | Biomaterials/Bioengineering |
| | | | | | | | | | | composed of chemists, molecular biologists, pharmacologists, medical scientists, and veterinarians. | | | Analytical Chemistry |
| | | | | | | | | Systems Life | Systems Life | -"Human Orthogonal Enzymes" for High-Quality Diagnosis -"Re-directional Pharmaceutics" | | | Immunology |
| SL23005 | 0 | 0 | - | - | 0 | | | Sciences | Sciences | -Development or Gene-Engineered Macrophage Drugs - Bio-invisible Polymers "Devuering Medicing" by Long Leading DDS | | 1 | Formulation Technology |
| | | | | | | | | _ | | - Fifeventuon meaucine by Long-lasting DDS -Bio-polyion complexes for Cellular Mimetics & Therapy - Efficient Induction of Immune tolerance | | | Macromolecular/Supramolecular Science |
| | | | | | | | | - | | (Website)https://sites.google.com/view/katayamalab | | | Artificial Cells |