

## ★Program Lineup

	Title	Course coordinator	Laboratory Name	Type of Program	Overview	Keywords
1	Molecular Neuroscience	Prof. H. Mori	Dept. Molecular Neuroscience	Lab tour, Mini lecture, Lab work	Introduction of some research projects carring in our department. Lab works such as genotyping PCR, DNA manipulation, and Immunohistochemistry.	Neuroscience
2	Brain, AI, and healthcare	Prof. T. Tabata	Lab. for Biol. Info. Processing	Lab tour	Participants can visit our laboratory, where we study synaptic plasticity, the molecular and cellular basis for learning and memory, and develop a mobile memory testing system to detect the early signs of age-dependent cognitive impairment.	Neuroscience Design & Innovation
3	Idling brain science for higher cognitive function	Prof. T. Ito and others	Research Center for Idling Brain Science (RCIBS)	Multiple lab tour	Participants can visit laboratories of RCIBS where multidisciplinary studies in neuroscience are carried out to elucidate the higher cognitive functions of our brain. Research themes include unraveling the neuronal mechanism of inspiration, emotion and perception, as well as psychiatric disorders such as schizophrenia and depression, emotion, and perception, as well as the impairment of the higher cognitive function like schizophrenia and depression.	Psychology& Cognitive Science
4	Inside Psychology Laboratories – A Tour of Current Research	Assoc. Prof. Hiroyuki TSUBOMI; Jr. Assoc. Prof. Yuya IJIMA; Jr. Assoc. Prof. Jun SHIGEMATSU; Jr. Assoc. Prof. Takuro SUZUKI	School of Humanities	Lab tour	Participants will visit psychology laboratories to learn about current research in areas such as cognitive, clinical, educational, and criminal psychology. Faculty members will introduce their recent studies, offering insights into a wide range of psychological topics. A broad interest in psychology is encouraged. Participation requires an intermediate level of psychology knowledge.	Psychology& Cognitive Science
5	Clinical clerkship, and Simulation-based training for 5th year students of the Department of Medicine	Prof. A. Takamura	Department of Medical Education	Simulation based-training	This simulation-based training aims to gain and improve abilities through lectures and repetition training using a simulator.	Medical Education & Simulation
6	Biochemical assay, molecular biology assay, and mass spectrometer	Prof. T. Nakagawa, Assoc. prof. K. Yaku, Assist. prof. A. Mizutani	Mol. Med. Pharmacol. Lab	Lab tour	This program introduces international students to biochemical and molecular biology research, including mass spectrometry-based metabolomics, through lab tours, experimental demonstrations, and interactive discussions with researchers. Participants can visit our laboratory to	Molecular & Cellular Biochemistry
7	Immunohistochemistry	Assoc. prof. S. Yamamoto	Department of Pathology	Lab tour	Sampling of tissues from mice, immunohistochemistry was conducted using such collected samples, specimens were observed by fluorescence microscopy.	Molecular & Cellular Biochemistry
8	Immunology for cancer and autoimmune disease	Prof. E. Kobayashi	Lab. for Immunology	Lab tour	Participants can visit our laboratory, where we study Immunology for cancer and autoimmune disease, especially by using T cell receptor and antibodies.	Molecular & Cellular Biochemistry
9	Microbial Pathogenesis	Prof. Y. Morinaga	Department of Microbiology	Lab tour	Participants can visit our laboratory, where we study the effects of pathogenic microorganisms, such as bacteria, viruses and fungi, on the host, as well as investigating their impact on symbiotic microorganisms and developing therapies using drugs, prebiotics and probiotics.	Microbiology & Infectious Disease
10	Lab tour of Physics	Asst. Prof. Y. Matsumoto	Lab. of Solid State Physics	Lab tour	Participants can visit physics laboratories, where we study searching for new material, determination of crystal structure, physical properties at low temperature to search for novel phenomena such like unconventional superconductivity. In this tour, we will demonstrate some experiment.	Physics & Advanced Materials
11	The Lafcadio Hearn Library tour	Prof. Toshie NAKAJIMA	School of Humanities	Facility tour	Lafcadio Hearn (1840-1904) came to Japan in 1890 and is known as a writer who widely disseminated Japanese culture and customs through essays and stories. His representative work, Kwaidan, includes many tales that everyone has heard at least once, such as "Yuki-onna" (the Snow Woman). Hearn's old collection of books is housed in the Library of University of Toyama. Although Hearn never visited Toyama, why does this collection exist at our university? What can we learn from these old books? In this lecture, I would like to delve into such mysteries while introducing Hearn's life and works	Japanese Culture & Society
12	Considering Japanese festivals (matsuri) with special reference to those in Toyama	Prof. Takeshi FUJIMOTO	School of Humanities	Lecture	Japanese festivals (matsuri) are held all over the country today, but their significance has changed over time. Most Japanese festivals have been based on local ties, but after World War II, especially during the period of rapid economic growth, festivals have come to be based on other ties as society has changed. In Toyama Prefecture, however, most festivals are still based on local ties. This is a proof that local ties are strong there, but at the same time, it means that it is difficult to find people to carry on the festivals in this era of declining population. While Japanese festivals have a variety of attractions to foreigners, they also face difficult challenges today, which will be discussed in this lecture.	Japanese Culture & Society
13	Modern history of Toyama city and its compact city policy	Prof. Koji OHNISHI	Prof. Koji OHNISHI	Field tour	Toyama City's compact city policy is very famous. Why does Toyama city have to change the city compact? The purpose of this field tour is to understand Toyama City's compact city policy through the field work. For this tour, you have to take a half hour lecture of Toyama city policy. Then you will go 3 hours field tour to find the landscape of the compact city policy. We will use the public transportation to go around. You can also touch the modern history of Toyama City in this tour.	Japanese Culture & Society Sustainability & Environmental Studies
14	Japanese anime on urban/rural contrast	Lecturer Yui KASANE	School of Humanities	Faculty tour	This class considers how some Japanese anime that describe urban/rural contrast play a role in reproducing an idealized image of the Japanese countryside that is materially separated from the metropolitan areas but is connected with an imaginary picture of nostalgic utopia that Japanese people bear in mind, and how such a reproduction contributes to the formation of a new image of Japan in the global market. This class mainly focuses on Okami Kodomo no Ame to Yuki (Wolf Children) (2012) by Mamoru Hosoda, which is set in Toyama, and Kimi no Naha (Your Name) (2016) by Makoto Shinkai.	Anime & Media Studies
15	Graduate School of Sustainability Studies	Graduate School of Sustainability Studies	Graduate School of Sustainability Studies	School introduction	This tour will demonstrate what you can learn at the Graduate School of Sustainability Studies through teaching examples.	Sustainability & Environmental Studies
16	Open Campus of the School of Sustainable Design	Lab tour: Prof. I. Kimura		poster session, Lab tour, Lecture	This is an opportunity to experience the education and research of the School of Sustainable Design through poster sessions by current students (international and Japanese), tours of facilities related to the School of Sustainable Design (hydraulic laboratory*). The poster presentations will provide an opportunity to interact directly with current students and hear about their research as well as student life at the University of Toyama. *Lab tour: Exploring the Wonders of Open Channel Flows Participants will explore the fascinating behavior of water flow, wave and sediment transport in open channels. The main topic "Jump" of the flow, strange act of water surface, tea-leaf paradox, meandering process in desktop rivers, travel of ocean wave, etc.	Sustainability & Environmental Studies
17	Medical photonics, devices and data-driven diagnosis	Prof. Y. Oshima	Lab. for Clin. Photonics Info.	Lab tour	Learn about recent advances in optical devices with mathematical approaches for clinical practice, e.g. in minimally invasive surgery, intraoperative cancer diagnosis in our laboratory. Visitors can experience endoscopic devices which have developed in collaboration with medical doctors.	Design & Innovation
18	Tour of Product Design & New Creation Technology Research Center	Prof. Kazumi UCHIDA	School of Art and Design	Lab tour	Participants can visit the Product Design Laboratory and Research Center for Cultural Property Conservation and New Creative Technologies, where faculty members will explain the research conducted in each. While freely exploring the campus, participants are welcome to ask questions, which faculty members will be happy to answer. A tour of the ARC (Advanced Research Center for Aluminum and Carbon), located on the Takaoka Campus, will also be provided.  Center for Cultural Property Conservation and New Creative Technologies: <a href="https://www.tad.u-toyama.ac.jp/about/facility/gigein">https://www.tad.u-toyama.ac.jp/about/facility/gigein</a> ARC: <a href="https://arc-ctg-u-toyama-ac-jp.translate.google/?_x_tr_sl=ja&amp;_x_tr_tl=en&amp;_x_tr_hl=ja&amp;_x_tr_pto=wapp">https://arc-ctg-u-toyama-ac-jp.translate.google/?_x_tr_sl=ja&amp;_x_tr_tl=en&amp;_x_tr_hl=ja&amp;_x_tr_pto=wapp</a>	Design & Innovation