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International Science and Technology Course

DOSHISHA UNIVERSITY

Kyoto, Japan

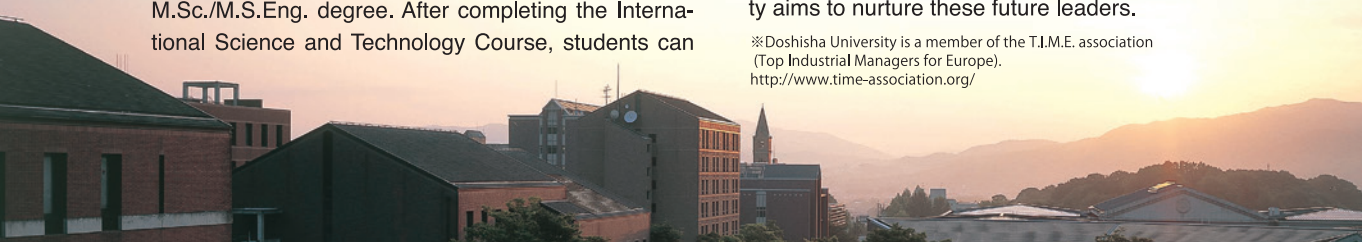




International Science and Technology Course

International business communities highly trust Japanese technology companies. Scientists and engineers in these companies have continually produced quality products through the efficient management of research and development while maintaining profound business morals. Doshisha University provides international students an opportunity to learn Japanese industries' ethics and management technologies in and around Japan's ancient capital, Kyoto, through the International Science and Technology Course. All classes necessary to obtain a degree are taught in English or bilingually including English. Students can participate in an internship program to work in Japanese industries in Osaka, Nara, Kyoto, and Kansai Science City where the university campus is located. The program requires intensive effort in practical project advancement. Research advisor professors who supervise students provide a specific research topic. Students have to report the results of their research every month in front of their fellow students, including Japanese students. Students are also required to take classes in fundamental theory subjects related to their research area, and classes on general knowledge indispensable to scientists and engineers who will work on the international scene. Some of these general knowledge subjects include Ethics for Scientists and Engineers, Presentation Skills, and Scientific Writing in English. It takes two years (four semesters) to obtain the M.Sc./M.S.Eng. degree. After completing the International Science and Technology Course, students can advance to a doctoral program at either the Graduate School of Science and Engineering or the Graduate School of Life and Medical Sciences. Students are encouraged to cultivate their talent as a scientist or an engineer through giving presentations at international scientific conferences, publishing papers in international journals, as well as periodically reporting their advancement to the professors guiding each student's research project. Students also have an opportunity to work as a teaching assistant to guide the studies of undergraduate and master's program students at Doshisha. This teaching experience can help students broaden their career opportunities to include being a leader of an international scientific project. The contents of Doshisha University's International Science and Technology Course are not limited to professional subjects of science and engineering. Students will also come to understand their responsibility in society, and through learning and training at Doshisha, aim to become one of the most trusted scientists or engineers in society. Successful graduates will acquire true international understanding through the educational programs that are immersed in an atmosphere at the center of Japanese spiritual culture in Kyoto. One can imagine project leaders highly respected by their colleagues with deep knowledge of their subjects as well as an appreciation for a wide range of art and culture. The International Science and Technology Course at Doshisha University aims to nurture these future leaders.

※Doshisha University is a member of the T.I.M.E. association (Top Industrial Managers for Europe).
http://www.time-association.org/



Information and Computer Science

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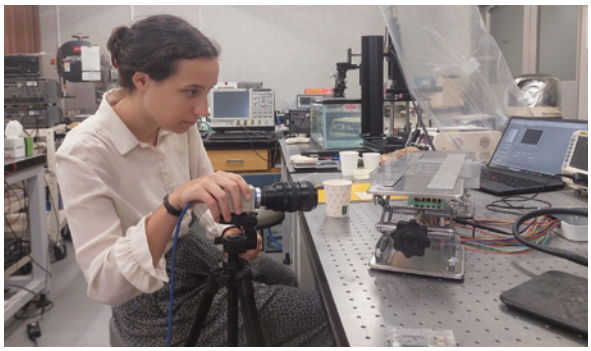
It is strongly desired that an information system applied as part of the social infrastructure should have high performance yet at the same time be human- and eco-friendly as well as intelligent. With the aim to develop such systems, this course is designed to foster advanced and multilateral knowledge and skills regarding information processing/transmission to comprehensively solve social problems we are facing today. Two major areas of our education and research are: the field of information related to computer science including artificial intelligence and information processing/transmission, and the field of intelligence which unravels the mystery of human intelligence and applies it in engineering.

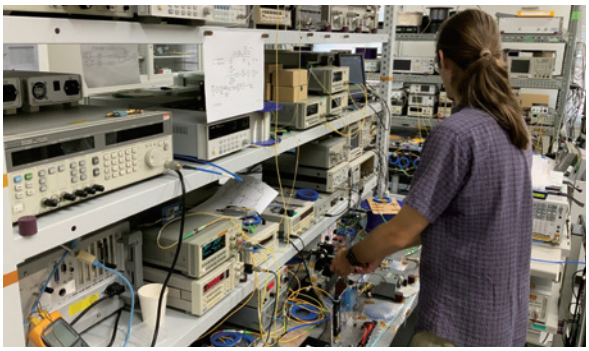


Electrical and Electronic Engineering

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Electrical and electronic engineering are widely utilized not only in the fields of energy and telecommunications but as essential elements of modern society, and the areas of research are continuously expanding. In this course students are involved in a wide range of activities focusing on the basic theories required in the most advanced research areas such as infrastructure, power electronics, electric and photoelectric devices, telecommunication systems, control systems, robotics, and on the substantiation and applied research of related theories through experimentation. Through these research activities, we foster international and creative engineers and researchers who can conduct advanced research and development in order to contribute to society with the practical knowledge to develop a theory into a new field.





Mechanical Engineering

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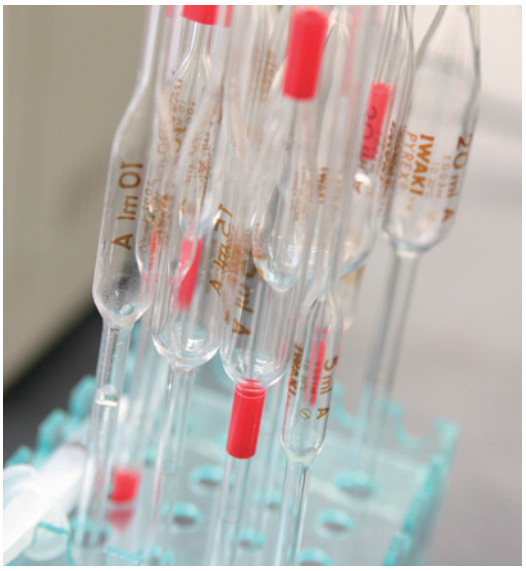
Students engage in a broad range of research in laboratories equipped with advanced measurement instruments and computing facilities. Research encompasses fundamental materials science; characterization of metallic and non-metallic materials; applied research into machining, forming, and related fields; fundamental research into vibration and motion control; mechatronics research and development; research into machine elements and tribology; fundamental research into thermal and fluid engineering; and applied research into fluid flow, heat transfer, combustion, and other areas. Through their studies, students build a strong foundation in mechanical engineering while developing practical problem-solving skills and the ability to collaborate across disciplines. The course prepares internationally minded, creative engineers and researchers with the expertise to pursue advanced research and technological development.



Applied Chemistry

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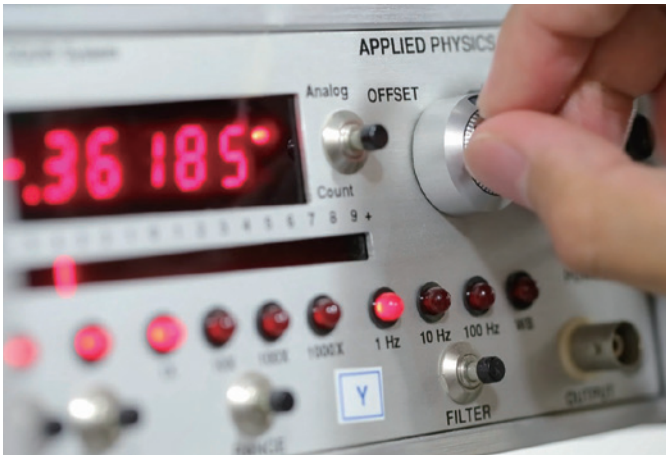
Creation of new functional molecules/materials and their efficient production are desired to solve various problems we are facing today in the areas of science, engineering, and medicine from the viewpoint of chemistry and chemical engineering. This course begins with basic research into the nature of such functional substances, and then goes on to synthesis and applied chemistry research aiming for commercialization. Moreover, chemical engineering research is conducted to realize high yield eco-friendly production, while considering structural control and optimal design in the production process from both micro and macro viewpoints. Thus the course provides education and research activities in both functional chemistry and chemical engineering as two essential and complementary aspects, while cultivating future engineers and researchers.



Science of Environment and Mathematical Modeling

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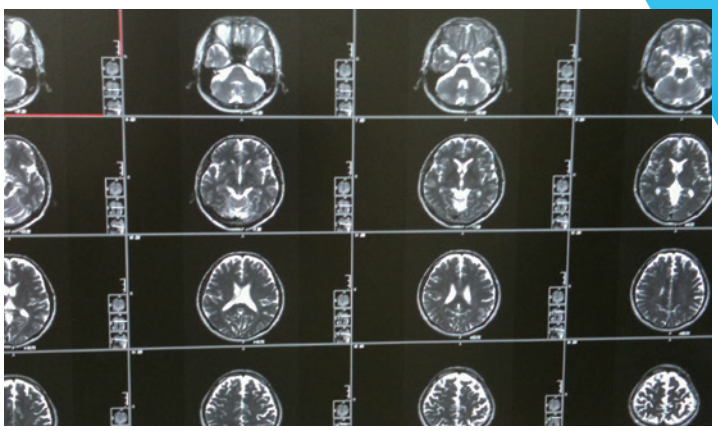
Global warming, destruction of the ozone layer, and loss of rainforests are closely related to the complicated natural system and diverse human activities. To address these issues, the development of environmental science is imperative, in addition to the application of conventional science and technology, as the comprehensive science that connects them. Mathematical science that supports our advanced technology and information society has increased in importance and become a basic element that connects different fields of study. This course has its basis in areas such as mathematical science, earth science, biology, and environmental engineering. It provides education on the natural environment and analysis of its changes, the construction of sustainable resources, sustainable energy systems, environmental protection technology, and advanced mathematical theory and mathematical models. Through education and research we aim to cultivate advanced engineers and researchers with knowledge of environmental science and mathematical science.



Biomedical Engineering and Informatics

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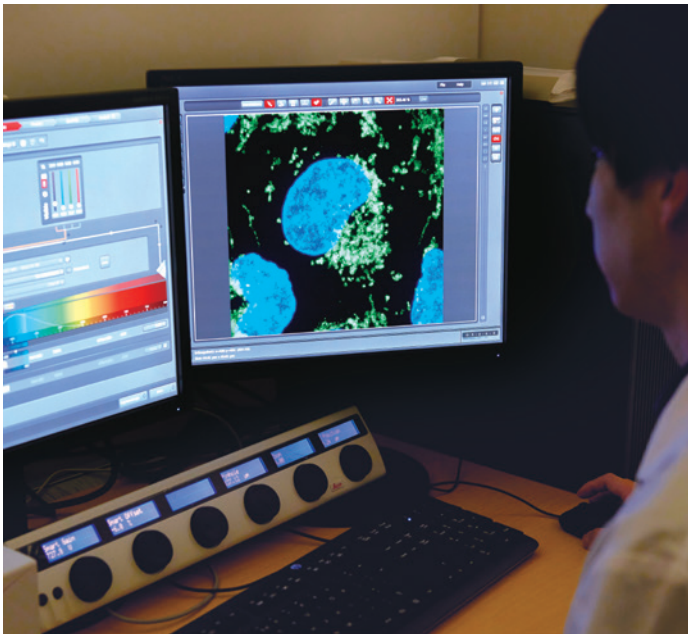
This course prepares science and engineering graduates to pioneer new theories and technologies by drawing inspiration from the sophisticated mechanisms underlying the biological functions of humans and other living organisms. By bringing together perspectives from medicine, informatics, and electronic engineering, the course offers an interdisciplinary education that fosters independent thinking and creativity.



Medical Life Systems

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The Medical Life Systems course focuses on understanding human beings as an integrated life system as well as elucidating the mechanisms that maintain health and that cause disease and dysfunction. Through interdisciplinary research that combines life sciences, basic medicine, and related scientific fields, students develop a comprehensive understanding of biological phenomena from molecular, cellular, and systemic perspectives. Particular emphasis is placed on the functional mechanisms by which living systems respond and adapt to internal and external stimuli, as well as on the prevention, diagnosis, and treatment of diseases. Research areas include systems biology, neuroscience, molecular biology, genetic engineering, molecular pharmacology, regenerative medicine, and aging-related studies. Through research-driven education, students develop the interdisciplinary perspective, analytical skills, and scientific expertise necessary to address global health challenges and create new academic and technological frontiers.



Course Registration Guide and Class List

Available on the ISTC website under “Current Students.”

Master's Program Flow

Spring Semester : April to September
Fall Semester : September to March

Spring Semester	Fall Semester	Spring Semester	Fall Semester	Spring Semester	Fall Semester
ENROLLMENT → Courses of Specialized Field (Including internship programs) Common Core Subjects (specified by major) Common General Subjects Practical Research on a Specific Field of Study (Monthly report of the research status)		M.Sc./M.S.Eng. Dissertation Compilation of research results → COMPLETION			
	ENROLLMENT → Courses of Specialized Field (Including internship programs) Common Core Subjects (specified by major) Common General Subjects Practical Research on a Specific Field of Study (Monthly report of the research status)		M.Sc./M.S.Eng. Dissertation Compilation of research results → COMPLETION		
Laboratory work consists of full-time research work. Students who excel in their research work will have a chance to present their results at a meeting of a scientific society in Japan or overseas.					

The duration of the doctoral program is three years in principle.The doctoral program is designed to focus on research and dissertation, however, students can take subjects of their interest including Japanese language and culture subjects.

Voices of International Students

Scan the QR code for more information.







Student Support

Scan the QR code for more information.



Scholarships

Various scholarships and tuition fee reduction programs are available to support students financially.

Housing

Explore off-campus accommodation options and find a place that suits your lifestyle.

Dining, Cafés, and Shops

Cafeterias, cafés, and shops are conveniently located on campus for your everyday needs.

Clubs and Societies

Join a variety of clubs and events to connect with others and broaden your horizons.

Health and Counseling Services

Healthcare and counseling services are available to support your well-being.

Health Center

Counseling Center

Career and Job Support

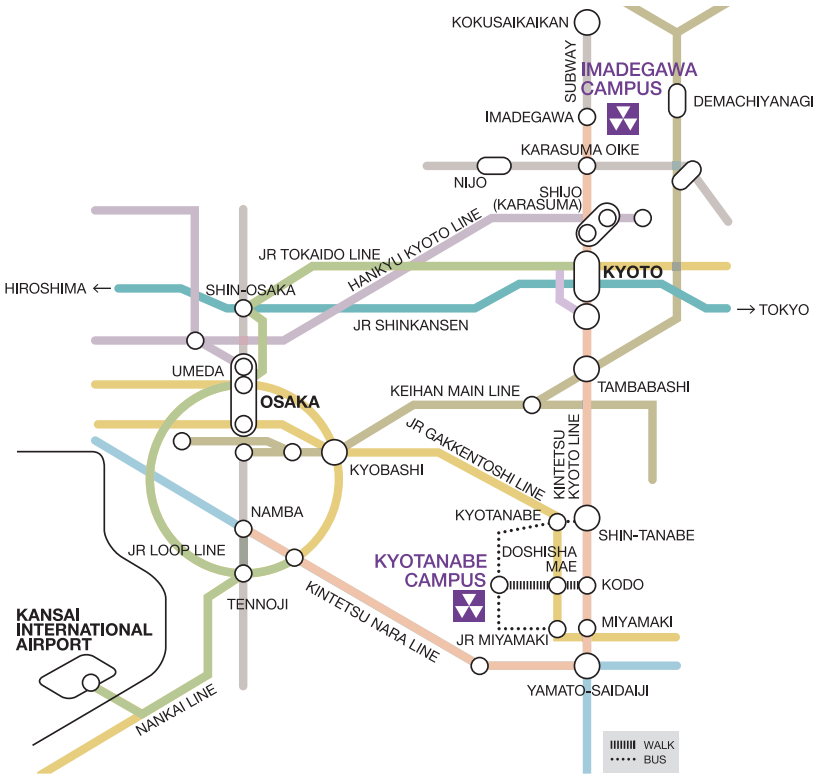
Career counseling, career resources, and seminars are offered to help you prepare for your future career.

ADMISSIONS INFORMATION

Find everything you need to know about application requirements, deadlines, and admission procedures.

https://istc.doshisha.ac.jp/istc/en/admission/admission.html

DIRECTION



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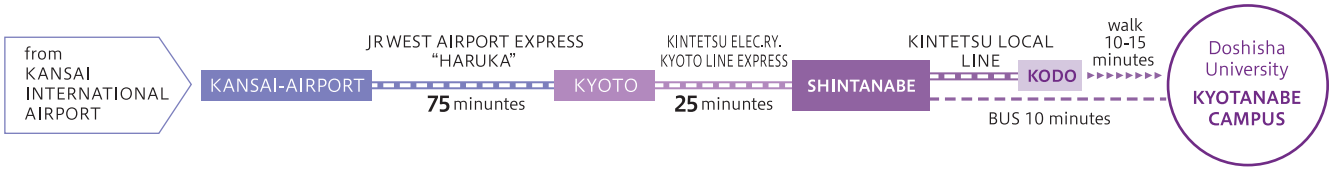
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TO KYOTANABE CAMPUS



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