

"The Most Polyvalent Pharmacy University in Japan"



JOSAI UNIVERSITY

Faculty of Pharmaceutical Sciences
Graduate School of Pharmaceutical Sciences

JU

www.josai.ac.jp

The Spiritual Legacy of the Foundation



CHARACTER BUILDING THROUGH LEARNING

+ The Goals of Josai University

Based on the ideal of our founder, Josai University aims at "building character through learning" with research professors who have profound specialized knowledge in various fields and cultivate intelligence and moral. The University also seeks to raise talented individuals who can contribute to our society and help in the development of mankind.

+ The «7J-Vision»

Mid-term Target: seven goals towards becoming a leading university in the world.

- Vision 1:** Expanding the horizons of students' capacity to serve society.
- Vision 2:** Developing human resources with an international mindset, expertise, and extensive knowledge of Japanese culture.
- Vision 3:** Continually improving the quality of educational programs, and collaboration directly connected to local and international communities.
- Vision 4:** Improving our research capabilities and promotion of innovation.
- Vision 5:** Enriching the campus environment through internationalization and networking.
- Vision 6:** Establishing a stronger university governance system to support dynamic development of education, research, and social contributions to the community.
- Vision 7:** Strengthening the impact of our communication capabilities and social presence

+ Healthy University Management

Josai University Educational Corporation's overall debt ratio (total for Josai University, Josai International University and Josai Base College) was 5.7% as of 2011. In 2009, the average overall debt ratio for private universities in Japan stood at 15.2%. These numbers highlight the very healthy financial situation that Josai University Educational Corporation enjoys. In addition, the balance to total income ratio of our three universities was 6.8% as of 2011 while the average for private universities stood at 3.7% in 2009.



+ Josai University

- Economics Division in the Faculty of Economics.
- Department of Social and Economic System in the Faculty of Contemporary Policy Studies.
- Department of Management in the Faculty of Business Administration.
- Department of Mathematics in the Faculty of Science.
- Department of Chemistry in the Faculty of Science.
- School of Pharmaceutical Sciences in the Faculty of Pharmaceutical Sciences.
- Department of Pharmaceutical and Health Sciences in the Faculty of Pharmaceutical Sciences.
- Department of Clinical Dietetics and Human Nutrition in the Faculty of Pharmaceutical Sciences.



JOSAI UNIVERSITY MAIN FACILITIES

- | | |
|--------------------------------|-----------------------------------------------|
| № 1: Gymnasium | № 9: Instrumental Analysis Center |
| № 2: Athletic Ground | № 10: Faculty of Pharmaceutical Sciences |
| № 3: Josai Hill | № 11: Isotope Center |
| № 4: Seikou Kaikan | № 12: Life Science Research Center |
| № 5: Cafeteria | № 13 & 14: Faculty of Pharmaceutical Sciences |
| № 6: Mizuta Museum of Art | № 15: Botanical Garden for Medical Use |
| № 7: Mizuta Memorial Library | № 16: Baseball Ground |
| № 8: Drugstore Simulation Room | |



✦ Josai University's partner schools and study abroad network

Josai University's partner schools include Josai International University and Josai Base College which are managed by Josai University Educational Corporation as well. These three schools placed under the authority of Josai University Educational Corporation have 93 partner schools in 19 countries as of April 2012. This demonstrates the active international education and exchange policy of our universities.



International education in the Faculty of Pharmacy

Citizenship of foreign students or foreign visiting researchers who have recently visited the Faculty of Pharmacy: United States of America, United Kingdom of Great Britain and Northern Ireland, People's Republic of China, Republic of Korea, Federative Republic of Brazil, Russian Federation, Malaysia, Republic of Singapore, Kingdom of Thailand, and so on.

List of countries where our students have recently studied abroad: United States of America, Canada, United Kingdom of Great Britain and Northern Ireland, Republic of Iceland, People's Republic of China, Kingdom of Thailand, Malaysia, Republic of Indonesia, and so on.



The Faculty of Pharmaceutical Sciences



SCHOOL OF PHARMACEUTICAL SCIENCES (6 years, quota 250/year, 1500/6 years)

DEPARTMENT OF PHARMACEUTICAL AND HEALTH SCIENCES (4 years, quota 50/year, 200/4 years)

DEPARTMENT OF CLINICAL DIETETICS AND HUMAN NUTRITION (4 years, quota 100/year, 400/4 years)

✦ The Goals of the Faculty of Pharmaceutical Sciences

The faculty seeks to better the quality of life and livelihood of people through training talented individuals who can improve people's health.

✦ The Faculty's Educational Philosophy

Students who graduated from Josai University's Faculty of Pharmaceutical Sciences seek, directly or indirectly, to maintain their patients' subjective quality of life as well as promote their health. Doing so they will realize our university's founding principle of "character building through learning."

✦ The Educational Goals of the Faculty

The Faculty seeks to raise talented individuals with a rich, creative personality who have developed their talents through academic training. Along with independent studies based on a philosophy focused on students as individuals, we educate medical specialists who attach importance to the point of view of their patients and value ethical practice. The faculty also trains individuals who understand how to use drugs, foods, cosmetics as well as other chemical compounds safely and acquire high-level specialized knowledge to contribute to the well-being of other citizens.

The goal and long-term aim of the School of Pharmaceutical Sciences (6 years)

Goal: to train medical specialists who improve people's health.

Long-term aim: to train pharmacists who have a strong self-awareness as medical specialists, know dietetics and functional food science as well as contribute to their surrounding society.

The goal and long-term aim of the Department of Pharmaceutical and Health Sciences (4 years)

Goal: to train medical specialists who improve people's health and help secure their livelihood.

Long-term aim: to train specialists who know the effectiveness of drugs, functional food science and cosmetics; and who can assume the point of view of their patients as well as support their security.

The goal and long-term aim of the Department of Clinical Dietetics and Human Nutrition (4 years)

Goal: to train supervising dieticians who support people's health.

Long-term aim: to train supervising dieticians who have a strong self-awareness as medical specialists, who understand the contiguous use of drugs and food, and can supervise the most appropriate dietetic programs in accordance with pharmaceutical laws.

+ Message from the Dean

"The only specialized curriculum in Japan to train supervising dietician was set up by the department of dietetics. The Faculty does not only seeks to transmit a knowledge of leading-edge pharmaceutical treatments, dietetics and state of the art medical care. It takes the understanding of pharmacy beyond existing norms by including the practice of social welfare as well as traditional Asian herbal and food therapies within a curriculum which aims at forming supervising dieticians and pharmacy experts who work in the field of medical care."—Dean Kenji Sugibayashi

+ Typical Subjects in Three Departments (extract)

	SCHOOL OF PHARMACEUTICAL SCIENCES	DEPARTMENT OF PHARMACEUTICAL AND HEALTH SCIENCES	DEPARTMENT OF CLINICAL DIETETICS AND HUMAN NUTRITION
FUNDAMENTAL CLASSES	<p><i>Comprehensive Pharmaceutical Sciences</i></p> <ul style="list-style-type: none"> • Community Pharmacy • IT Globalization • Bioinformatics • Graduation Research 	<p><i>Comprehensive Pharmaceutical and Health Sciences</i></p> <ul style="list-style-type: none"> • Drug Development and Investigation • IT Globalization • Graduation Examination 	<p><i>Clinical Dietetics and Human Nutrition</i></p> <ul style="list-style-type: none"> • Nutritional Therapy • Pharmacology for Food-Medicine Interaction • Field Training of Clinical Dietetics • Graduation Research
CORE CLASSES	<p><i>Clinical Pharmacy</i></p> <ul style="list-style-type: none"> • Dispensing and Prescription • Food-Medicine Interaction • Community Pharmacy Practice, Hospital Pharmacy Practice <p><i>Basic Pharmaceutical Sciences</i></p> <ul style="list-style-type: none"> • Organic Chemistry I, II, III • Immunology I, II • Pharmacognosy <p><i>Physiology and Therapeutics</i></p> <ul style="list-style-type: none"> • Pharmacotherapeutics I, II, III • Clinical Dietetics and Human Nutrition • Principles of Toxicology • Practice of Pathophysiology I, II, III, IV <p><i>Comprehensive Pharmaceutical Sciences</i></p> <ul style="list-style-type: none"> • Outline of Pharmacy • Nursing Science/Nursing-care/Social Welfare • Overseas Pharmacy Training in English I, II 	<p><i>Comprehensive Pharmaceutical and Health Sciences</i></p> <ul style="list-style-type: none"> • Comprehensive Biology • Practice of Basic Organic Chemistry <p><i>Basic Pharmaceutical Sciences</i></p> <ul style="list-style-type: none"> • Analytical Chemistry I, II • Biostatistics I, II <p><i>Physiology and Therapeutics</i></p> <ul style="list-style-type: none"> • Cosmetics, Toiletries and Fragrances I, II • Functional Foods Science I, II • Fundamental Nutrition <p><i>Clinical Pharmacy</i></p> <ul style="list-style-type: none"> • Experiment of the Functional Food Science and <i>Yakuzen</i> (Chinese Food Therapy) • Food-Medicine Interaction • Community Pharmacy Internship • Experiment of Pharmaceutical and Health Sciences I, II 	<p><i>Basic Dietetics and Human Nutrition</i></p> <ul style="list-style-type: none"> • Meal Service Management • Menu Planning (exercise) • Food Chemistry • Cookery Science I (practice) <p><i>Hygiene and Public Health</i></p> <ul style="list-style-type: none"> • Food Hygiene • Public Health Nutrition I, II <p><i>Comprehensive Clinical Nutrition</i></p> <ul style="list-style-type: none"> • Pharmacotherapy I, II • Clinical Nutrition I, II <p><i>Clinical Dietetics and Human Nutrition</i></p> <ul style="list-style-type: none"> • Clinical Nutrition I, II (exercise) • Pathophysiology I, II • Pharmacology
ELECTIVES	<ul style="list-style-type: none"> • Gender Studies • Overseas English Training 	<ul style="list-style-type: none"> • French • Overseas English Training 	<ul style="list-style-type: none"> • Exercise of Physical Education I, II • Overseas English Training

+ Representative licentiates

School of Pharmaceutical Sciences

Pharmacist, pharmacy organizer and administrator, drug seller administrator, administrator of medical chemical manufacturing, and so on.

Department of Pharmaceutical and Health Sciences

Clinical laboratory technologist, radiation protection supervisor, medical representative (MR), healthcare advisor (HCA), beauty care advisor, supplement advisor, registered salesclerk, and so on.

Department of Clinical Dietetics and Human Nutrition

Registered dietician, dietician, nutrition educator, supplement advisor, and so on.

+ Primary Places of employment (extract)

School of Pharmaceutical Sciences	Department of Pharmaceutical and Health Sciences	Department of Clinical Dietetics and Human Nutrition
Graduate Schools Dispensing Pharmacies Drug Stores Hospitals Pharmaceutical Companies Clinical Research Organization (CRO) Medical Representative (MR) Public Services	Graduate Schools Pharmaceutical Companies Clinical Research Organization (CRO) Medical Representative (MR) Drug Distribution Drug Stores	Graduate Schools Hospitals Drug Stores Dispensing Pharmacies Food Services Welfare Institutions Food Companies Public Services

Botanical garden for medical use



+ Graduate School of Pharmaceutical Sciences

Pharmaceutical Sciences, Doctoral course (4 years)
Pharmaceutical and Health Sciences, Doctoral course (3 years)
Pharmaceutical and Health Sciences, Master course (2 years)
Human Nutrition, Master course (2 years)

+ The educational philosophy of the Graduate School of Pharmaceutical Sciences

The Graduate School of Pharmaceutical Sciences aims at training highly skilled individuals who thrive to better the health, support the lives, and improve the subjective quality of life of every citizen.

+ The educational philosophy of the various departments of the Graduate School of Pharmaceutical Sciences

Pharmaceutical Sciences, Doctoral course (4 years)

To train talented individuals who acquire high-level academic foundations of Pharmaceutical Sciences centered on medical pharmacology.

Pharmaceutical and Health Sciences, Doctoral course (3 years)

To train talented individuals who acquire high-level academic foundations of Pharmaceutical Sciences centered on Pharmaceutical and Health Sciences.

Pharmaceutical and Health Sciences, Master course (2 years)

To train knowledgeable, broadminded researchers and specialists who acquire high-level academic foundations of Pharmaceutical and Health Sciences.

Human Nutrition, Master course (2 years)

To train knowledgeable, broadminded individuals who promote the advancement of dietetics.

+ The aim of the Graduate School of Pharmaceutical Sciences

Pharmaceutical Sciences, Doctoral course (4 years)

To train talented specialists who acquire high-level academic foundations of Pharmaceutical Sciences, promote the advancement of medical treatment and care for the quality of life of every citizen.

Pharmaceutical and Health Sciences, Doctoral course (3 years)

To train high-level specialists who promote health care and have a wide knowledge of dietetics, pharmaceutical and medical science in relation to pharma-nutrition.

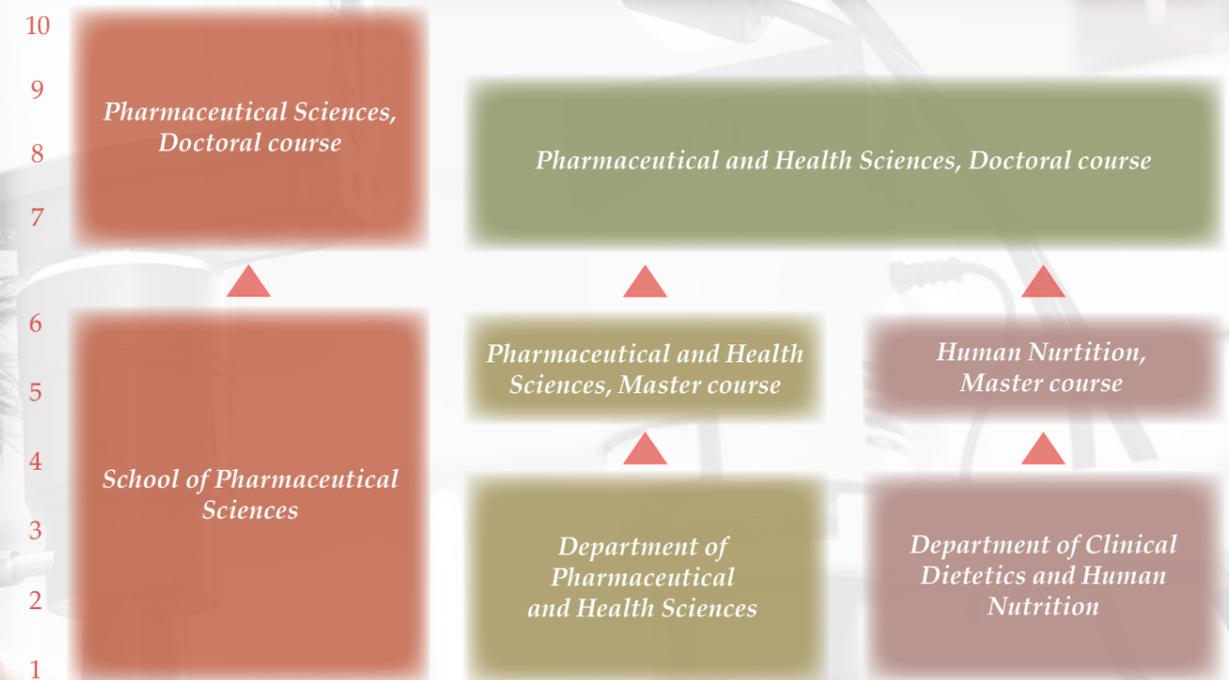
Pharmaceutical and Health Sciences, Master course (2 years)

To train high-level specialists who thrive to better the health and support every citizen's subjective quality of life.

Human Nutrition, Master course (2 years)

To train high-level specialists who support people's health as well as medical treatment and are knowledgeable in the fields of dietetics, medical sciences and pharmacology.

+ Year by year academic flow in the Faculty of Pharmacy



Pharmaceutical Sciences, Doctoral course (4 years)

This curriculum is articulated to provide a rich learning experience and specialized training to specialists and generalists who learned pharmacy from various fields of life sciences.

Pharmaceutical and Health Sciences, Doctoral course (3 years)

This curriculum focuses on a rich learning experience and specialized training for specialists and generalists who learned pharmacy from various fields of life sciences.

Pharmaceutical and Health Sciences, Master course (2 years)

This curriculum was built so that high-level and broad-minded specialists can deepen their various specializations.

Human Nutrition, Master course (2 years)

This curriculum focuses on training specialists who learn foods and drugs' poisonous effects on the human body as exogenous chemicals. They focus on the close relations between the effects of these chemicals and the expression of genetic information (genomics), the expression of protein functions (proteomics) and the fluctuation of metabolites (metabonomics).



+ Typical Subjects in four courses (extract)

"This curriculum is designed around a pluridisciplinary approach. Students are not only trained to search for a deeper level of specialization in order to obtain high-level skills to support people's health but also to explore other areas than that of their own specialization in order to analyze an increasingly complex notion of health."—Yoichi Kawashima, Graduate School of Pharmaceutical Sciences, Research Head.

PHARMACEUTICAL SCIENCES, DOCTORAL COURSE (4 years)	PHARMACEUTICAL AND HEALTH SCIENCES, DOCTORAL COURSE (3 years)	PHARMACEUTICAL AND HEALTH SCIENCES, MASTER COURSE (2 years)	HUMAN NUTRITION, MASTER COURSE (2 years)
Common ●Advanced Life Sciences ●Advanced Medical and Pharmaceutical Sciences ●Dry Research (Theoretical Research)	Common ●Highly Advanced Pharmaceutical and Health Sciences ●Regulatory Science ●Medical Care for Pharmaceutical and Health Sciences	Common ●Primary Research Training in Pharmaceutical and Health Sciences ●Advanced Pharmaceutical and Health Sciences	Common ●Advanced Clinical Dietetics ●Primary Research Training in Clinical Dietetics ●Clinical Dietetics I, II
Drug Discovery and Exploration ●Drug Discovery and Exploration ●Medicinal Chemistry ●Pharmacognosy	Pharmaceutics and Cosmetics ●Pharmaceutics and Cosmetics I, II	Basic Pharmaceutical Science ●Basic Pharmaceutical Science	Clinical Dietetics ●Clinical Nutrition ●Pathophysiology ●Pharmacotherapy ●Preventive Nutrition ●Clinical Practice in Hospital-Pharmacy
Biodefence Systemic Science ●Biodefence Systemic Science ●Toxicology ●Molecular Immunology ●Pharmacology	Food Science ●Food Science I, II, III	Biodefence Systemic Science ●Biodefence Systemic Science	Nutritional Toxicology ●Food-Nutrition Science ●Biological Systemic Science ●Nutritional Toxicology ●Team Medical Care-Statistics
Medical Care ●Pharmacotherapeutics ●Pharmaceutics and Pharmaceutical Manufacturing ●Clinical Pharmacology ●Pathogenic Microbiology ●Physiology ●Analytical Pharmaceutics and Informatics ●Pharmaceutics ●Hospital Pharmaceutics	Nutritional Toxicology ●Nutritional Toxicology I-VII	Drug Function ●Clinical Pharmacology	
		Cosmetic Function ●Pharmaceutics and Cosmeceutics ●Skin Physiology	
		Food Function ●Functional Foods Science ●Bioorganic Chemistry	
		Biological Pharmaceutical Science ●Biological Pharmaceutical Science ●Drug Safety Management	
Doctoral Thesis Research Doctor's Thesis Research	Doctoral Thesis Research Doctor's Thesis Research	Master's thesis Research Master's thesis Research	Master's Thesis Research Master's thesis Research

+ Laboratories in the Graduate School of Pharmaceutical Sciences

Laboratories in Pharmaceutical Sciences,
Doctoral course (4 years)

CLASS	LABORATORY
Drug Discovery and Exploration	Organic and Medicinal Chemistry Pharmacognosy and Natural Medicines Physical Pharmacy
Biodefence Systemic Science	Nutritional Toxicology and Applied Pharmacology Toxicology and Applied Pharmacology Molecular Immunology Pharmacology
Medical Care	Clinical Pharmacology Microbiology Bio-analytical Chemistry Physiology Analytical Pharmaceutics and Informatics Drug Safety Management Pharmaceutics Pharmaceutical Technology

Pharmaceutical and Health Sciences,
Master course (2 years)

CLASS	LABORATORY
Basic Pharmaceutical Science	Pharmacognosy & Natural Medicines
Drug Function	Clinical Science Biomedicine
Cosmetic Function	Pharmaceutics and Cosmeceutics Dermatological Physiology
Food Function	Bioorganic Chemistry Functional Food Science

Laboratories in Pharmaceutical Sciences,
Doctoral course (3 years)

CLASS	LABORATORY
Pharmaceutics and Cosmetics	Pharmaceutics and Cosmeceutics Dermatological Physiology
Food Science	Food Science Functional Food Science Clinical Science Biomedicine
Nutritional Toxicology	Immunobiochemistry Bioorganic Chemistry Pathophysiology Pharmacotherapy Molecular Nutrition Nutritional Toxicology Clinical Nutrition

Human Nutrition,
Master course (2 years)

CLASS	LABORATORY
Clinical Dietetics	Preventive Nutrition Pharmacotherapy Clinical Nutrition Pathophysiology
Nutritional Toxicology	Nutritional Toxicology Food Science Immunobiochemistry

+ Research Program in Each Laboratories in the Graduate School of Pharmaceutical Sciences

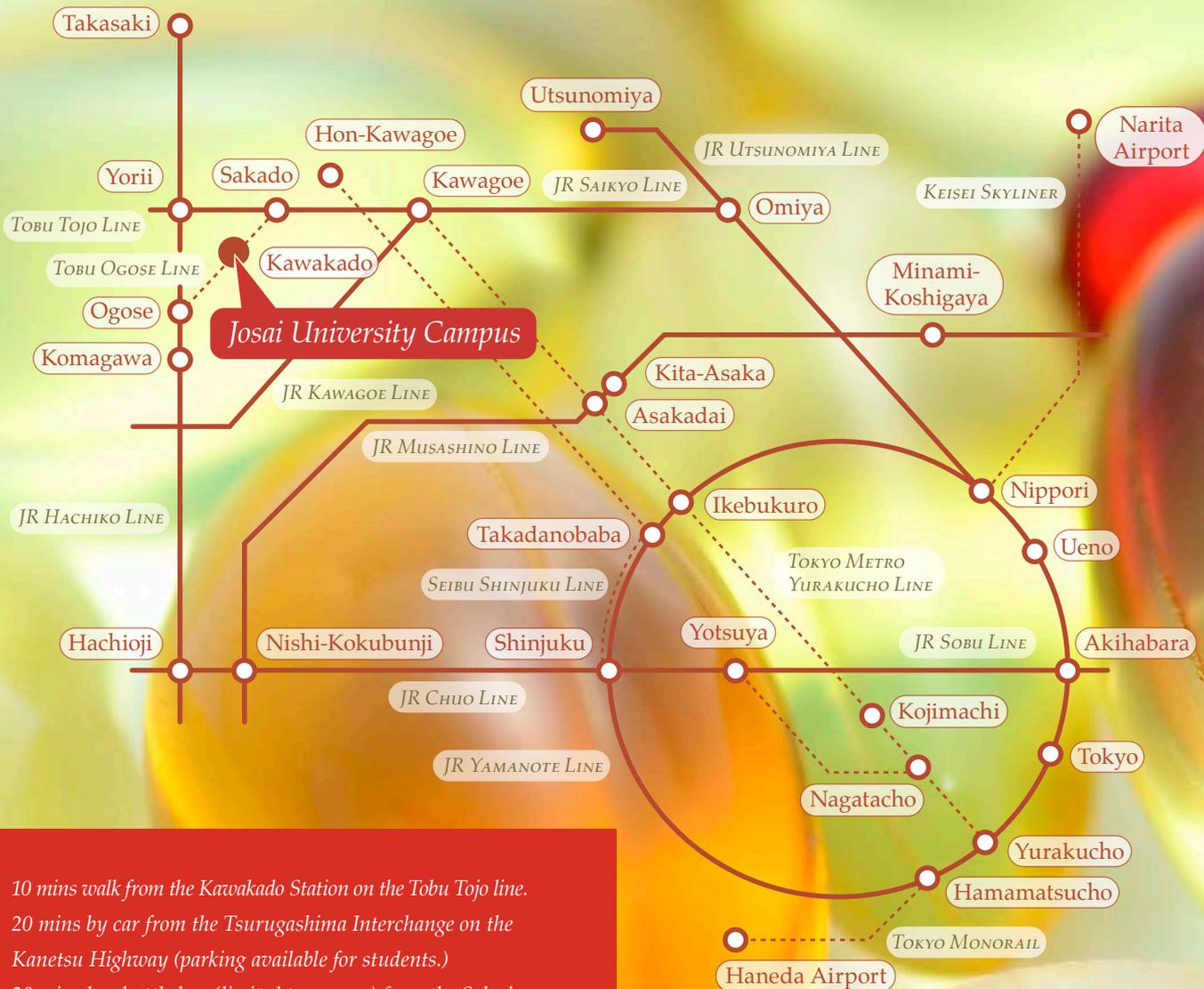
LABORATORY	CONTENTS
Organic and Medicinal Chemistry: Pharmacognosy and Natural Medicines: Physical Pharmacy:	Design, synthesis and biological evaluation of bioactive compounds. Natural medicines based drug discovery. Studies on permeation mechanism of drugs through epithelial membranes and design of molecular sensors.
Nutritional Toxicology and Applied Pharmacology: Toxicology and Applied Pharmacology: Molecular Immunology: Pharmacology:	Studies on the prevention of nutritional and chemical toxicity. Studies on the mechanisms underlying toxic effects of xenobiotics. Analysis of molecular interactions between lectins and carbohydrates. Basic research on pathomechanisms of oxidative stress-induced brain dysfunction, and development of preventive and therapeutic strategies. Study of the physiological effects of drugs and their mechanisms of action. Application of bacterial cell surface components to anti-infectious immunogen and search for antibacterial agents in natural compounds.
Clinical Pharmacology: Microbiology:	Development of analytical methods for biological substances and the elucidation of the physiological functions of these substances. Investigations of lifestyle-related diseases and their prevention & therapy. Analysis of factors modifying drug action and data mining for drug related information. Evaluation of safe and effective drug/nutrition therapy. Control of transmembrane migration of drugs/design of drug administration systems. Development of drug delivery systems.
Bio-analytical Chemistry:	Development of drug delivery systems administering drugs safely and appropriately to patients.
Physiology: Analytical Pharmaceutics and Informatics: Drug Safety Management: Pharmaceutics: Pharmaceutical Technology: Hospital Pharmaceutics:	Evaluation of drug and cosmetic function/transdermal drug and cosmetic delivery systems. Analysis of skin function diseases for development of cosmetics. Design and evaluation of malady inhibitor food. Study and evaluation of the safety and effect of functional foods. Development of novel cancer therapies to inhibit the supply of nutrient. Assessments of food and drug to avoid nutritional toxicity. Research on regulations of physiological function caused by biomolecular interactions. Evaluation of nutrient/disease interactions. Study of drug-nutritional status interactions. Studies of polyunsaturated fatty acid and flavonoids on the metabolism of lipid and bone. Evaluation of food composition and nutritional toxicology. Establishment of effective nutritional therapies for lifestyle-related diseases. Assessments of a mother's diet during lactation and breast milk component.







ACCESS TO JOSAI UNIVERSITY



- 10 mins walk from the Kawakado Station on the Tobu Tojo line.
- 20 mins by car from the Tsurugashima Interchange on the Kanetsu Highway (parking available for students.)
- 20 mins by shuttle bus (limited to women) from the Sakado Station on the Tobu Tojo line.
- 15 mins by shuttle bus from the Komagawa Station on the JR Hachiko line.



JOSAI UNIVERSITY

1-1 Keyakidai, Sakado City, Saitama 350-0295, Japan

Tel: +81-49-271-7729 (9 a.m. to 5 p.m.)

Fax: +81-49-271-8028