

日本芝浦工业大学 Sandwich Program 招生简章 2024 年春季入学

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*此招生简章为指定校推荐生用。



日本芝浦工业大学

Sandwich Program 招生简章 2024 年 4 月入学

一、项目概况

(一) 大学介绍

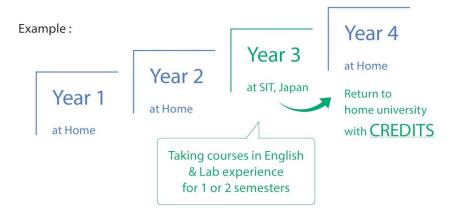
芝浦工业大学简称芝浦工业大,芝浦工大。东京私立理工科四大名校之首,与东京工业大学,早稻田大学,东京理科大学,九州大学等 9 所学校为 MOT 联合学校,是日本科学与科技领域方面最顶尖的学府之一。芝浦工业大学前身是 1927 年设立的东京高等工商学校,现在的芝浦工业大学于 1949 年设置。 是被大学基准协会认定的 34 所国公私立大学之一。

芝浦工业大学以"坚持实学主义,从社会中学习,为社会做贡献"为建学精神,在全球化的社会中致力于培养能够活跃在世界舞台上的技术性人才。

(二) 项目介绍

Sandwich Program is where the student continues to be registered at their home university, while studying for a period of time between six months and a year at Shibaura Institute of Technology. For example, the student may study for their first two years at their home university, study at the College of Engineering at Shibaura Institute of Technology for the third year, and then complete their studies at their home universities. Students have a wide range of study options, from 17 departments and 3 colleges. Classes are taught in English, and Japanese language lessons are also available.

(该项目是学生保留国内学籍身份,同时在芝浦工业大学学习六个月至一年的时间。例如,学生可以在其国内大学学习前两年,在芝浦工业大学的工程学院学习第三年,然后在其原大学最终完成学业。项目学生有我校 17 个系和 3 个学院的广泛的课程选择。课程以英语授课,同时提供日语课程。)



二、学术课程

(一) 学期时段

- 半年课程 : 2024 年 4 月中旬—2024 年 7 月下旬
- 一年课程 : 2024 年 4 月中旬—2025 年 1 月下旬
- *说明:学期时间参考去年数据,具体按照学校实际安排为准,寒暑假期间及短期假期根据校历安排为准。

(二) 入学手续

从报名至顺利获得签证、宿舍申请等所有手续由报名中心指导完成。入学后学生学籍属芝浦工业 大学国际部,学生证办理、课程选择等由芝浦工业大学国际部指导完成。

(三) 课程内容

项目参加学生可以选择包括机械理工学,材料工学,电器电子信息学,通讯工学,日语,计算机,建筑,环境等 17 个领域各种课程。※具体科目请参考 2023 全年的选课课表附件:

1. Undergraduate Level

春季学期 http://timetable.sic.shibaura-it.ac.jp/table/2023/Timetable8X0328Z1.html
http://timetable.sic.shibaura-it.ac.jp/table/2023/Timetable8X0328Z1.html

2. Graduate Level

春季学期 http://timetable.sic.shibaura-it.ac.jp/table/2023/Timetable8X0328Z5.html
http://timetable.sic.shibaura-it.ac.jp/table/2023/Timetable8X0328Z5.html

(四) 学分规定

- 1. 没有特定的上限要求,但是每周的上课时间最低需要超过 10 个小时;
- 2. 每周6堂课,12个学分。

三、留学生活

(一) 宿舍安排

合格发表后,宿舍申请指南将发送给合格者,指导办理宿舍申请手续,签订宿舍入住协议,支付宿舍相关费用,费用以当年实际通知为准。

(二) 学生待遇

1. 校园待遇

项目参加学生可使用包括芝浦工业大学图书馆、校园网络、食堂以及其他相关教学设施。

2. 交通

项目参加学生可持芝浦工业大学学生证购买学生票。

3. 关于勤工俭学

项目参加学生持【留学】签证,各项手续完备后,可申请【资格外活动许可】,进行不高于 28 小时/周的勤工俭学,获得合法收入。但勤工俭学只应作为社会实践和课堂学习的补充,所获收入不建议列入留学资金计划。

4. 关于奖学金

芝浦工业大学可以为通过奖学金筛选的学生提供每月4万日元的奖学金,由学校决定奖学金的获得者。

更多关于奖学金的资讯:

https://www.shibaura-it.ac.jp/campus_life/tuition_scholarship/scholarship.html

四、报名须知

(一) 申请条件

- 1. 指定校正规在校学生
- 2. 英语成绩: CET6 级以上或 TOEFL iBT80 或具有同等以上水平
- 3. 在校期间未受处分且成绩优异、品行端正的学生
- 4. 经合作院校推荐,准予赴日交换留学并可获得学分承认的学生。
- (二)报名截至: 2023年10月24日
- (三) 合格发表: 2023 年 12 月中旬(暂定)
- (四) 项目费用
 - 1. 课程费用

选考费(报名时)/Registration Fee: JPY30,000

准入费(合格后)/Admission Fee: JPY40,000

• 学费/Tuition: JPY15,000 per credit

*以上费用参考 2022 年数据,根据每年的情况有微调的可能性,具体以大学公布的当年信息为准。

2. 项目参加费

- 半年课程:302,500 日币
- 一年课程: 363,000 日币

3. 项目参加费明细

- 1) 费用包含:课程申请指导费、签证指导费、日本现地服务费、指定日接机费、宿舍安置费、部分课外活动补助费用;
- 2) 费用不含:国际机票费、日本签证费、在日住宿费、个人消费及以上"包含"中没有涵盖的内容。
- 4. 各项费用需在规定时限之前汇入指定账户,并提供汇款凭证。

(五)报名流程

- 1. 提交报名表至学校相关部门老师处。
- 2. 报名审核通过后缴付项目参加费。
- 3. 准备相应申请材料(具体材料将由负责老师另行通知)
- 4. 合格发表
- 5. 宿舍申请并交纳宿舍费用、准备在留材料
- 6. 在留下达
- 7. 签证办理
- 8. 出发

五、联系方式

(一) 关于报考、签证手续及日本留学生活指导,请通过以下方式咨询:

咨询邮箱: duanqi@xf-world.org

咨询电话: 021-55661085

报名链接: apply.xf-world.org

(二) 关于项目构成以及学习内容请咨询

Division of Global Initiatives

地址:3-7-5 Toyosu, Koto-ku, Tokyo 135-8548, Japan (2F Classroom and Administration Building

Toyosu campus)

电话:+81-(0)3-5859-7140 (英语和日语专线)

传真:+81-(0)3-5859-7141

邮箱: global-admission@ow.shibaura-it.ac.jp

(三) 关于院校推荐名额请咨询各指定校外事处,或学校指定部门。

六、宣讲会信息

主题: 2024 年春季入学-芝浦工业大学 Sandwish 项目宣讲会

时间: 2023年9月20日 12:30 下午 北京, 上海

平台: Zoom 会议

会议号: 309 388 2159

密码: 654321

附件: 可选课程介绍

Course title	Course description	Purpose of class	Goals and objectives
	**This course may be	Understanding why "information	1.To understand disparities
	cancelled according to	accessibility" is becoming more	between "information haves"
	COVID-19 situation, as field	important in modern society	and "information have-nots"
	works, case studies, and	through discussion, field works,	2. To understand concepts of
	simulated experiences will be	case studies, and simulated	universal design,
	undertaken in this course.	experience.	barrier-free, and
			accessibility in information
	Disparities in information		3. To understand
	access between persons who		"accessibility" in terms of
	can access information easily		not only technical model but
	and persons who can not causes		social and human rights model
	not only whether you have it		
	but also economical		
	disadvantage and social		
	limitation.		
	All people have equal rights		
	to communicate with each		
	other where "communication"		
Accessibility of	has a big meaning toward in		
Information and	information society.		
Communication	However, as for the reality,		
	a technical and/or a social		
	problem block it.		
	In late years, may efforts for		
	this problem advances in		
	global communities -		
	European, North American, and		
	Asian countries.		
	In many fields including an		
	industry or the construction		
	business, this issue attracts		
	attention rapidly.		
	Therefore, this issue becomes		
	an important topic for students who are looking for		
	jobs in industrial field.		
	In this class, we argue this		
	social issues through		
	simulated experience as		
	persons with disabilities,		
	porsons with disabilities,		

	field works, and case studies.		
Acoustic Systems	Sounds penetrates deeply into our daily life, for example, conversation, music and so on. The topics of the class are the estimation of the sound emission, the design principle of the electroacoustic transducer and the sense of hearing. Finally, you practice to calculate frequency characteristics by finite element method and digital signal processing.	The class aims to be able to understand the estimation of the sound emission, the design principle of the electroacoustic transducer and the sense of hearing. Finally, you practice to calculate frequency characteristics by finite element method and digital signal processing.	1. Be able to understand propagation sound and to calculate sound field. 2. Be able to understand operation of electro-acoustic systems and to design the systems. 3. Be able to understand sense of hearing, acoustic parameters and employed unit in acoustics. 4. Be able to understand sense of hearing, acoustic parameters and employed unit in acoustics. 5. Be able to design sound field using finite element analysis.
Advanced Bioscience	This course further extends the coverage of genetics concept in the Bioscience course. The course is intended for students interested in gaining further knowledge in four major areas of Genetics, Microbiology. Molecular Biology and Biochemistry	To understand the advance concepts of Genetics, Microbiology. Molecular Biology and Biochemistry	1. Define the concept of genes and their function in relation to genomics. 2. Analyze the evolution processes at the molecular level. 3. Understand technics used in modern biotechnology.
Applied Economics (Japanese)	The purpose of this course is to help students master a quantitative analytical method and analyze the economic phenomenon that students feel involved in. The course also introduces the input-output analysis and the macroeconometric model analysis to estimate a positive economic effect stemming from economic	Students are expected to acquire statistical and econometric methods, and analyze various kinds of economic phenomena.	1. Acquire an analytical method of statistics and econometrics, and apply them to analyze the actual economy. 2. Acquire an analytical method to estimate economic effects. 3. Learn regression analysis. 4. Be able to use an analytical method that one sets a hypothesis and then tests it

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		policies such as fiscal		quantitatively.
		policy. At the end of the		
		course, students will hand in		
ŀ		the final paper.		
		In terms of technical	*	1. Possible to conduct
۱		calculation such as		calculation using a numerical
۱		electrical circuit analysis,		calculation software.
	Applied	it may be impossible to obtain		2. Possible to explain purpose
	Mathematics	solution directly from		and solving method of
	(Japanese (Eng I i	algebraic or differential		nonlinear equations.
۱	sh accepted))	equations. Therefore, we have		3. Possible to explain purpose
۱	(Prerequisites:	to employ computer-based		and solving method of
	You are expected	numerical analysis. This		differential equations.
	to be capable of	subject offers how to use		4. Possible to apply these
	programming	numerical calculation		method to electrical
۱	(coding) using	software, solving method of		calculation to obtain
	one of any	nonlinear equation,		solutions.
۱	software.)	numerical integration		
		method, and these		
		applications for electrical		
		calculations.		
		Discrete Fourier transform	By learning the least-square	1. Understanding the
		(DFT) is used for processing	method, the orthogonal function	least-square method and being
		sounds and graphics in	expansion, and Fourier series	able to approximate given
		digital computers. This	expansion, we acquire the basics	sequences of data or
		lecture aims at being able to	for processing signals like	functions by linear functions
		do Fourier series expansion,	sounds and images.	or quadratic functions.
		which forms the basis for DFT.		2. Understanding orthogonal
		As an introduction to Fourier		functions and being able to do
	Applied	series expansion we		the orthogonal function
	Mathematics	illustrate the least-square		expansion for given functions
	(Prerequisites:	method and the orthogonal		by some given set of
	Basic knowledge	function expansion. Fourier		orthogonal functions.
	of linear	series expansion is an		3. Understanding Gram-Schmidt
	algebra and	instance of the orthogonal		orthogonalisation, which is a
	analysis)	function expansion.		method (algorithm) for
		Understanding Fourier series		orthogonalising a set of
		expansion forms the basis for		vectors in an inner product
		understanding Fourier		space, and being able to
		transform and DFT, which are		construct an orthogonal set
		topics covered in lectures of		of functions from a given set
		signal processing.		of functions.
				4.Being able to do Fourier
				series expansion, which is an
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			important instance of the orthogonal function expansion.
Architectural Design Studio (Japanese(Engli sh accepted))	The course is an architectural design studio, in which students are to propose a building design in urban context. After a thorough research on the several aspects of built environment in the scale of city planning (e.g. 1: 2,500), students are to propose suitable programs for the building and to develop the urban and architectural design in the scale of regional planning (e.g. 1:500), and/or the scale of architectural design (e.g. 1:200). The class is for International Course Students as well as Foreign Students.	The students are expected to learn the situation of the contemporary urban context through research and to acquire the professional knowledge and techniques necessary to make a convincing proposal to improve the architectural and urban conditions.	1. To be able to read and use the drawings at appropriate scale to convey urban, architecture and landscape concepts. 2. To be able to make a proposal based on logical design approach. 3. To be able to present one's own ideas through various visual means (drawings, models, etc.). 4. To be able to understand and make comments to the other students' works.
Architectural Planning and Design	In this course, students will learn about architecture through the following process: - Lectures on the architectural forms and the analytical methods according to the different building types. - Analysis on Plan Composition and Circulation, etc. - Finding Patterns for Architectural Form - Presentations of findings and Discussions Through this process, students should acquire the professional skill to read and understand architectural	The aim of the course is for students to study various architectural forms and the cultural, functional and structural meanings behind them through analyses and categorization of different architecture, so that they should acquire the architectural language, which is useful for the practice of planning and design.	1. To be able to make diagrams to show the relationship between architectural forms and spaces. 2. To be able to develop the skill to read architectural documents and to explain the knowledge on how architecture is planned and designed. 3. To be able to present the analysis of architecture from various points of view and to exchange the ideas with other students in English.

	documents, as well as deepen their understanding of the relationship between the architectural forms and their functions and meanings. The accumulation of this knowledge should contribute to the design skill. Also, students should learn diverse perspectives on architecture through sharing the findings with the classmates by presentations and discussions. This class is designated as a prerequisite course (Architectural Planning) to take Architect Registration Exam in Japan.	*	*
Assistive Technology	*	*	*
Automotive Engineering	The number of components of a car extends several tens of thousands points and related fields are from the thermodynamics of engine to computers such as ECU and a radar. The instructor lectures, for the purpose of understanding this, the overall picture of the modern cars. In addition, materials, production technologies and future cars are described.	-Understand of automotive technologies from the thermodynamics of engine to computers such as ECU and a radar, materials, production. -Acquire the ability to investigate the details of car -Acquire the ability to discuss the purchasing targets of production car.	1. Understand the basics of automotive engineering. 2. Acquire the ability to investigate the details of car. 3. Acquire the ability to discuss the purchasing targets of production car.
Biomedical Measurements	Measurements of biological structures and functions are necessary in order to understand biological phenomena and life activities. Various sensors and equipment are used in the biomedical measurements, and	Deepen their knowledge on biological characteristics and measurement principle in order to utilize the biological measurement technologies.	1. Be able to explain the basic concepts of biological phenomena and measurements. 2. Be able to explain the working principles of sensors and measurement equipment. 3. Be able to analyze the principles and applications

	understanding of their principles and measuring objects is important if we want to utilize them. This course deals with basic concepts and principles of biomedical measurements through lectures and some simple experiments. In the latter part of this course, students analyse a biomedical measurement technology or medical equipment in small groups. Following group consultations, they are required to present their findings.	This course presents the	of a biomedical measurements on their initiative.
Biosensors	Biosensor is a highly sensitive and specific sensor created by mimicking the mechanism of living organisms to receive and recognize external physical and chemical signals (sense).	This course presents the molecular mechanisms of senses and also describes the principle of biosensor to detect and quantify a certain molecule. Biosensor recognizes the molecule by the detector element consisting of materials such as enzymes, antibodies, nucleic acids and cells, and the physicochemical change on the elements is transduced to electronic signal. We also present the application of biosensor to medicine, chemical engineering and the assessment of environments.	1. Comprehension for fundamental of biomaterials and biosystems 2. Comprehension for concept of biosensors 3. Comprehension for application of biosensors
Calculus with Differential Equations	You will learn what a differential equation is and how to recognize some of the basic different types. You will learn how to apply some common techniques used to obtain general solutions of differential equations and how to fit initial or boundary conditions to obtain a unique	The purpose of this class is to learn how to recognize some of the basic different types of differential equations, to learn how to apply some common techniques used to obtain solutions of differential equations and to appreciate how differential equations arise in applications. This class also	1. You can describe how to recognize some of the basic different types of differential equations. 2. You can describe how to apply some common techniques used to obtain solutions of differential equations. 3. You can describe how differential equations arise

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	solution. You will appreciate	includes a review on the content	in applications.
	how differential equations	learned in the class of	
	arise in applications and you	differential equations at the	
	will gain some experience in	time of first grade.	
	applying your knowledge to		
	model a number of engineering		
	problems using differential		
	equations.		
	Chemical spectroscopy	Understanding for the principle	1. Understand the principle of
	provides you solid knowledge	and usage of spectroscopy in	absorption spectroscopy.
	and exercises about	quantitative and structural	2. Understand the principle of
	spectroscopy. Spectroscopy	analysis of chemicals.	quantitative analysis of the
	is a practical and		chemical by spectroscopy.
	contemporary way of		3. Understand the way to
	analytical chemistry. The		analyze the structure of the
Chemical	applications of spectroscopy		chemical by spectroscopy.
Spectroscopy	are used not only in industry		chemical by spectroscopy.
Spectroscopy	but in medical.		
	,		
	pharmaceutical, food and		
	environmental duty. You will		
	study about the principle of		
	spectroscopy as a way of		
	structural and quantitative		
	analysis of the compounds.		
	Color is an essential aspect	In this course, we aim to learn	1. Being able to observe color
	for practical design. This	basic principle of color theory.	as a design aspect.
	course teaches color theory	In addition, we also aim to attain	2. Being able to understand
	for designing. The goal of the	the ability to apply color in	psychological
	course is to enable students	prospective practical designing	characteristics of color.
	to handle colorants, paints	based on theoretical knowledge.	3. Being able to understand
	and computer colors by		functions of color
	understanding color theory		communication.
	and experiencing visual		
	perceptions. First part of		
Color Theory	the course, ocular systems,		
	optics, color naming, color		
	order systems and harmony		
	will be taught. Then the		
	latter part, color		
	psychology, printing, web		
	design, color management,		
	environmental design, and		
	color culture will be		
	emphasized. This course		

	delves into functions of color communication via practical graphic, product, architecture, and space design.		
Combustion Engineering	In this lecture, the fundamentals of the combustion phenomena are discussed.	Combustion is an important method for obtaining energy of heat or power in our life. Combustion is a complex phenomenon including heat and mass transfer, fluid dynamics, and chemical reactions. In recent years, it has become possible to predict combustion phenomena by numerical simulation. However, there still remain lots of problems to solve. The purpose of the class is to understand the fundamentals of the combustion phenomena.	1. To deepen the knowledge of fuels. 2. To understand the fundamentals of the combustion phenomenon. 3. To understand combustion diagnostics.
Computer Simulation	This course introduces the fundamental and practical concepts of computer simulation as well as how to use MATLAB tool for handling and analyzing the simulation data. The topics include MATLAB programming, queue theory, etc. Assignments require an understanding of network problems and MATLAB programming.	Students get familiar with MATLAB tool and obtain the ability to simulate and analyze the simulation result by using typical simulation technique.	1. Understanding the fundamental concepts of computer simulation. 2. Understanding how to conduct a practical simulation to solve an engineering problem using MATLAB. 3. Understanding how to handle and analyze the data.
Electric Circuits 2	This course provides a basic study on fundamentals on analysis of electric circuit. The course will be given in the form of lectures and exercises to help the students have a better understanding and proficiency in analyzing electric circuit.	Learning the overall knowledge to have the child who asks the voltage and an electric current using loop circuit equation, nodal equation of equilibrium and a law to various electric circuits.	1. The students will be able to understand the characteristics of resonant circuit. 2. The students will be able to proficiently use loop equation and node equation in various electric circuits analysis. 3. The students will be able to understand general circuit theorem.

				4. The students will be able to analyze 2-port circuits.
Ε	lectric Railway	Railway in Japan is well-developed. This class focuses on mainly electricrailway techlogy.	The purpose of this study is to understand electrical engineering technologies.	1. Possible to explain development history of electric railway. 2. Possible to explain power supply system of electric railway. 3. Possible to explain electric car structure of electric railway. 4. Possible to explain development operation management technology of electric railway. 5. Possible to explain latest trend of electric railway.
y	lectrochemistr of Metals Japanese(Engli h accepted))	At this lecture, a technical or scientific matter required for a surface treatment is explained, and a lecture is given about the foundation and technological application of a surface treatment method.	The purpose of this lecture is to study dry process and wet process in a systematic way.	1. Understanding of Surface Treatments 2. Understanding of Surface Treatment Methods and its Applications 3. Understanding of the Importance and the Necessity for Surface Treatment Technology in Material Engineering
	ngineering athematics	This course will cover how calculus, Fourier analysis, and other formulas are applied in the field of information and communications engineering. Engineering mathematics is crucial to understand the transmission of information in the field of radio and acoustic wave engineering. Therefore, engineering mathematics will be focused more in class. We will provide the students with as many tasks as possible throughout the course, in order to have	1. Engineering mathematics for radio engineering. Understand how calculus is applied in radio engineering. That includes reviewing the electromagnetic phenomenon that can be expressed by calculus and gaining its functional equation. Then this will be followed by learning the general engineering techniques that are needed to solve the functional equation. 2. Engineering mathematics for acoustic wave engineering. Understand how Fourier analysis is applied in this field.	1. Understand that electromagnetic phenomenon, which can be expressed by calculus, can be transformed into a functional equation. 2. Gain general engineering techniques that can solve the functional equations. 3. Understand and explain terms used in spectral analysis. 4. Solve basic spectral analysis practice questions.

Environmental Research Seminar 1	a better understanding of this topic. Students will conduct environmental research in English under the supervision of one of a faculty member of the Department of Architecture and Environment Systems.	Students will be able to understand and explain the terms used in spectral analysis, followed by solving some basic spectral analysis practice questions. Through an appropriate research procedure, students will write a research report and make a presentation in English about the subject selected from the field of environmental studies including architectural studies, urban studies, and social studies.	1. Students will set a precise research subject. 2. Students will conduct research through an appropriate procedure for the subject. 3. Students will write a research report and make a presentation in English.
Environmentally Sustainable Engineering	"Sustainable Development Target (SDGs)" was adopted at the international summit of September 2015. Toward a sustainable society, companies as well as the state are required to initiate aggressive behavior with corporate social responsibility. In this lecture, we aim to learn how companies are taking SDGs, what kind of actions and technologies are required for achieving the goals based on an engineering viewpoint.	In this lecture, we aim to learn how companies are taking SDGs, what kind of actions and technologies are required for achieving the goals based on an engineering viewpoint.	1. Students can learn basic knowledge on international framework and efforts on sustainability. 2. Students can learn business activities based on engineering grounds. 3. Students can think and propose what companies should do toward a sustainable society.
Exercise in Architectural Studio 4 (Japanese)	"Design assignment exercises (hand-drawn + CAD). In order to apply and master the skills acquired in the first semester of "Architectural Studio Seminar 3" to more advanced architectural design, two design assignments are performed (office architecture, student hall). Both design objects will be	Design medium— to large—scale facilities (offices, student halls). In the second half of the third year, individual design guidance is provided with the aim of being able to design results equivalent to graduation designs at other universities. "	1. Can design medium— to large—scale facilities (non—residential and non—wooden). 2. Demonstrates modeling, design, and conceptual capabilities from structural planning to equipment planning. 3. Continue to improve the skills of drawing ability, modeling ability, spatial

non-residential, RC-built, and 3,000-5,000 m2-class facilities, and will be developed from design objects (non-residential, RC-built, total 1000-1600m2 class) in the second half of the second year.

Students conduct seminars in a way that is close to one-on-one instruction by individual instruction by teachers, and work on individual work tasks from the conception stage to the study stage and the presentation of the final draft. We will improve the specific skills (drawing ability, modeling ability, spatial grasping ability, and diagramting ability) in the department of architecture.

grasping ability, and diagramting ability.

- 4. Be able to explain the space you are envisioning in a language, diagram, etc.
- 5. Investigates and discusses prior cases and references.

Exercise in Space and Architecture Design 4

*The schedule and the detail of the program in 2020 cannot be fixed because of the coronavirus outbreak in the world. All students who wish to take this course must contact Professor Minami before the spring semester starts by email (ASAP). Please check the official website of SIT regarding the first date of 2020 spring semester, which has been currently postponed till May 11th, 2020. All SIT faciilities are closed during the days when the Japan's government declares the state of emergency in Tokyo.

In the first quarter of the

Understand the social problems in our society and propose the solutions for it by the architectural design. You are encouraging to design the urban space and landscape in adjoining environment. By integrating your knowledge in structure, material and mechanical engineering to control our living environment, you are expected to design a cultural complex in the urban context of Tokyo.

- 1. Understand the purpose and function of public facility.
- 2. Understand the relationship of public facilities with local community.
- 3. Understand the city planning of the area and propose the future of the local community. 4. Propose the design based on the needs of the users of the public facility.
- 5. Acquire the skills of architectural presentation including computer graphics and modeling.

semester, you are expected to design a new Fukagawa library. https://www.koto-lib.tokyo. jp/023_lib_fuka.html You may design a completely NEW library on the same site or add some annex building and renovate the exiting one. If you think it is necessary, you can move the site for the new library to the different place. You are expected to design the most reasonable and attractive library for the local people. One of the important issue is how to well connect the library with adjoining Kiyosumi Park and Kiyosumi Garden. http://www.tokyo-park.or.jp /park/format/index033.html# googtrans(en) In the second quarter of the semester, you are expected to design a museum in Ueno Park. This course requires students -To discover issues about local 1. To have better observation to understand changing community. skills to understand -To obtain skills to envision a contemporary urban society contemporary social issues. through the fieldwork and desirable future community and 2. To collect appropriate data propose the desirable propose district plan and and to grasp current architecture. district plan and situation through the data Exercise in architecture to sustain local analysis. Urban and community. Students will 3. To obtain visions to create Regional Design obtain skills to envision a better future community. (Japanese) desirable future community 4. To present the concrete and propose district plan and proposal of plan and architecture. architecture for local community and process to realize them. 5. To have better skills of

presentation to communicate with local citizen. Exercises on design issues. (The first quarter) Students 1. Learn the design skills of In order to apply the skills learn from design of dwelling public and medium-sized learned in "Urban unit, way of gathering, facilities architectural design relationship with urban area and 2. Understand management exercise 3" in the latter part design the dwellings which are concepts specialized in of the second year to more important elements of urban architecture such as VE and FM. sophisticated urban landscape. architecture, design a number (The 2nd quarter) Students 3. To improve drawing of design issues. The first understand diverse programs on capacity, modeling ability, quarter is dwellings with RC urban and architecture, master space grasping ability, construction and total the architectural design while diagrammatizing ability, and surface of 3000 to 5000 m 2, reading the context of the logic. and it keeps continuity from surrounding environment. 4. Acquire the ability to the design object of the explain a project with second year (public, RC languages, diagrams, etc. Exercise in construction, asurface of 5. Acquire survey ability and Urban $1000 \sim 1600 \text{ m}$ 2). In the 2nd critique eyes of precedent Architecture quarter, it corresponds with cases and reference cases. Design 4 5 programs of the public and (Japanese) the private. Students are divided into about 20 persons each group and are instructed by one faculty member and students will skill up their skills (drawing ability, modeling ability, spatial grasping ability, graphicizing ability) in the Department of Architecture. Also, at the time of submitting tasks, carefully conduct the final review committee and also communicate design ethics. 1. To understand the concept The course is compulsory for 1. To learn the basic knowledge on the second year students at fluid properties (continuity, of fluid and to be able to the department of mechanical density, viscosity, and surface explain the properties of engineering. In this lecture, tension). fluid Hydrodynamics 1 the students will learn the 2. To learn the fundamentals of 2. To understand the fundamentals of fluid fluid statics (absolute/gauge hydrostatic forces acting on mechanics. The lecture pressure, manometers, Pascal's a solid surface immersed in consists of basic properties law, pressure distribution, liquid and to be able to

	of fluids, static and	forces acting on a solid surface	calculate them in a specific
	dynamical aspects of fluids.	immersed in liquid, buoyancy,	situation.
	In addition, dimensional	Archimedes' principle).	3. To understand the basic
	analysis will be taught with	3. To learn the fundamentals of	equations of the conservation
	examples.	fluid dynamics (different types	laws (continuity equation,
		of flows (steady/unsteady,	Euler's equation and
		viscous/inviscid,	Bernoulli's theorem,
		laminar/turbulent),	momentum theorem) and to be
		stream/path/streak lines),	able to apply them in a
		flowrate and hydrodynamic	specific problem.
		conservation laws (continuity	4. To understand the concept
		equation, Euler's equation of	of dimensional analysis and
		motion, Bernoulli's theorem,	to be able to apply it in a
		Torricelli's law, Pitot/Venturi	specific situation.
		tubes, momentum theorem).	·
		4. To learn the dimensional	
		analysis (basic/derived	
		quantities, Buckingham's	
		pi-theorem, similarity	
		parameters).	
		5. To learn the applications of	
		the above concepts to fluid flow	
		problems.	
	This class will provide you	The goals of this course are to	1. At the end of the course,
	with basic concepts of	- Be able to understand basic	participants are expected to
	hydrology (water cycle and	knowledge of each component in	obtain basic knowledge of
	water resources).	water cycle	water and energy cycle.
		- Be able to understand and	2. They are expected to
		explain how to monitor and model	understand the latest
		water cycle	technological advancement of
Hydrology			monitoring and modeling of
			hydrologic cycle.
			3. They are expected to
			explain the latest
			technological advancement of
			monitoring and modeling of
			hydrologic cycle
Information	*	*	*
Communication			
Technology			
	Interaction design is	To offer a cross-disciplinary,	1. The students can understand
Interaction	incorporated into a product'	practical, and process-oriented	the basic idea of user
Design	s overall design from the very	introduction to the field. The	interface, user experience,
	beginning to optimize the	target students need no	and HCI.

	product functionality and the user experience the product offers. This course offers a cross-disciplinary,	preliminary background and can be from the various field.	2. The students can explain the principles of Interaction design3. The students can apply the principles and frameworks to
	practical, and process-oriented introduction to the field, showing not just what principles ought to apply to interaction design, but crucially how they can be applied. Group works, exercises, and presentations take a large part of this course.		design interactive products for user experiences.
International Development Engineering	This course addresses the causes and nature of current major environmental problems from several interrelated perspectives, including scientific facts, social background, complicated relations among stakeholders, availability of technologies and systems, and international framework. A recognition of the complex of environmental problems needed to address current international development is the primary focus of this course. Students will learn the basic knowledge of major environmental problems and their measures including air pollution, water pollution, waste problems, and climate change, and comprehensive approach for sustainable development which is a fundamental concept in current international	This course objective is to acquire a basic view for understanding major environmental problems and measures in line with the concept of Sustainable Development Goals (SDGs).	1. Students can describe the complex interdisciplinary nature of the field of environmental studies, and discuss the international development in line with concept of sustainable development 2. Students can understand some basic aspects of environmental science and environmental policy as presented in class 3. Students can use fundamental skills of project management

Introduction of Electrical Engineering Research	development, and skills of the project management, examining best mix of policies and technologies in line with the concept of sustainable development. This course aims to provide students with an understanding of the role of electrical engineering in real life and the future. This course consists of 4 fields, power and energy system, electrical materials and devices, information/loT system, and robotics. This course is provided by 6 faculties from all faculty of the department of electrical engineering.	The objective of this course is to - understand and explain the basic contents of each field - understand and explain the social background and technical background of each field. - understand and explain the issues and future trends in each field.	-understand and explain the basic contents of each field -understand and explain the social background and technical background of each field. -understand and explain the issues and future trends in each field.
Introduction to Control Engineering	This course provides fundamentals of the control engineering, which is applied to various automation devices. The main topics of the class are Laplace transforms, transfer functions, transient characteristics, block diagrams and frequency characteristics.	Topics covers linear system theory; mainly responses of 1st/2nd order system, stability and frequency analyses.	1. student can solve simple differential equations applying of the Laplace transformation, and derive transfer function of the system 2. student can obtain time response for system up to 3rd order 3. student can determine stability of system 4. student can obtain frequency response and Bode diagram including physical interpretations 5. students can draw a block diagram of given system
Introduction to Electromagnetis m	This is an introductory course of Electromagnetism. The characteristic of this course is that we start from Maxwell equations from the beginning and explain all	The purpose of this lecture is to understand physical phenomena of electricity, magnetism, and light in a unified theory of Maxwell.	1. Understand the notion of electromagnetic field both from qualitative and quantitative points of view. 2. Understand Maxwell equations and master how to

	phenomena of electricity and		use them.
	magnetism based on the		3. Understand the force acting
	equations. However, in order		on a charged particle in
	for the course to be		electromagnetic field.
	introductory, we take much		
	time for the study of		
	stationary cases.		
	Experimental demonstrations		
	will also be given during the		
	lecture.		
	Students firstly learn three	This course provides a basic	1. Learn and understand the
	fundamental concepts for	knowledge and skill of embedded	fundamentals of flow chart
	programming; variables,	programming. Programming is now	and processing.
	conditional jump, and loop	one of common skills for	2. Acquire skills of use of
	processing, then, functions,	engineers and this also leads to	variables, conditional jump,
	arrays. In second half,	a practice of logical thinking	and loop processing in
	memories and I/O device	ability for problem solving.	program code.
Introduction to	access techniques are		3. Acquire skills of 1/0
Embedded	introduced. On these steps,		device control.
Programming	popular control board is used		device deficient.
(International	together for practical device		
Training)	controls. Finally, students		
	are divided into groups and		
	system using the		
	micro-controller and I/O		
	devices should be developed.		
	And presentation should be		
	processed by the members of		
	the groups.		
	Based on design perspective	This course aims to give an	1. Understand the necessity of
	and design thinking, students	overview of the history,	man - machine system through
	will learn about industrial		
		function, and actual of	modern design history and
	design procedures and basic	industrial design, deepen	design survey.
	methods with small practice.	understanding of its pluralistic	2. Understanding the
	This course provides an	functions and meanings.	significance of design in
Introduction to	overview of industrial		society, we will be able to
Industrial	design. To understand		choose the way to evaluate
Design	industrial design		design appropriately.
	critically, student should		3. Understand the methods of
	have the view point of design		industrial design and become
	history, material culture and		able to use technical terms
	user centered design. Based		properly.
	on this criteria, introducing		
	the structured method to		
	the structured method to		

		analyze industrial design		
	Introduction to Information and Communication Engineering	This course aims to understand the overview of advanced research topics about information and communications engineering. 6 of 12 faculty members give lectures biweekly about their research themes and topics in omnibus form. Not only faculty member's specialty but also the basic and wide knowledge about communications engineering can be acquired.	The students taking this course will be able to understand the overview of advanced research topics on information and communication engineering.	1. Acquire an overview of advanced research topics about information and communication engineering. 2. Understand the basic principles of information and communication technology. 3. Develop skills to understand the implications of information and communication technologies applied in the society
	Mechanics of Materials Exercises	When mechanical engineers design various mechanical structures and investigate accident causes, they have to always use knowledge with regard to Mechanics of Materials. Hence it is very important to solve various practice exercises based on actual structures to learn Material Mechanics. In this course, students solve the various practical exercises with regard to Mechanics of Materials, which are prepared, everytime. Answers and ways to solve these problems are also explained.	The subject of the lecture is that students can solve any problems with regard to Mechanics of Materials. And the students can also model actual structures and machines to enable to solve by means of Mechanics of Materials theoretically.	1. To calculate displacements of truss structures which are receiving loads. 2. To calculate twisting angle of circular bar which is receiving loads. 3. To calculate deflection and deflection angle of beams which are receiving loads. 4. To calculate deformations and stresses of beams which are receiving combined stress. 5. To calculate deformations and stresses of complex structures which are receiving loads.
(Prerequisites: of mechanical and electronic engineering in Japanese and English. In this course, you will study sequence control using a programmable logic controller (PLC) as a		of mechanical and electronic engineering in Japanese and English. In this course, you will study sequence control using a programmable logic controller (PLC) as a	There are several ways to build a mechatronics system. As a basis of mechatronics, you will learn three parts: mechanical parts, electrical parts, and software parts. Then, build a PLC system that combines them. In addition, you will learn how to control the	1. Construction of sequence control system using electromagnetic relay. 2. PLC Programming with ladder language. 3. Programming for H8 microcomputer with C language.

Programming is	related applications. Topics	system using C language using the	
done on your own	include ladder logic	H8 microcomputer system.	
laptop.)	diagrams, input / output		
	modules, power supplies,		
	controller and instrument		
	interfaces. In addition,		
	using the H8 microcomputer		
	system, you will practice C		
	language programming running		
	on the microcomputer.		
	Mechatronics, when regarded	This course will put an emphasis	1. Students should be familiar
	from the standpoint of	on the acquisition of the	with the concepts of
	mechanical engineer, said to	knowledge and experience in	microcontrollers, event
	be a methodology of	software, electrical and	driven programming, and
	integrated mechanical design	electronic engineering, because	should be able to read and
	combined with control, which	students who major mechanical	write state diagrams and C
	consists of mechanical plus	engineering and try mechatronic	programs that configure and
	electronic elements.	design should focus on master	use microcontrollers.
	Typically, adding the sensor	them. This course will NOT cover	2. Students should be familiar
	and the microprocessor in the	fundamental topics in machine	with the principles and
	machine often realizes	elements and mechanisms.	functions, be able to select
	systems with high		and use mechanical switches,
	controllability and		relays, motors, diodes,
	intelligent behavior has become easier than that		transistors, FETs and op
	comprise of pure mechanical		amps. 3. Students should be
Mechatronics	elements + mechanism only.		understood the working
(Prerequisites:	Thus, mechatronics is		principles and operation of
N/A)	convenient and essential,		the DC motors, motor drivers,
	rather than new, methodology		and basic feedback control.
	of mechanical design.		
	The course covers topics of		
	mechatronic elements		
	including microcontrollers		
	and motors, and an		
	introduction to software		
	design particularly useful in		

the context of mechatronics. It deals with fundamentals in event-driven programming, electrical and electronic engineering, DC motors, mechanical and solid-state

switching devices,

	operational amplifier, power supply circuits, and microcontrollers, with examples.		
Numerical Thermo-Fluid	*	*	*
Engineering	The field of Optoelectronics,	Concepts of optoelectronics are	1. will comprehend basic
Opto-Electronic s	also referred to as photonics, has continued to evolve during several decades. Optoelectronics is an electronic technology concerning light waves emitted from laser diodes. Optoelectronics is widespread among a various kinds of fields, such as optical communication, optical information technology, optical measurement technology, and so on. In this course, concepts of optoelectronics are introduced and optical devices which support significant progress in optoelectronics are studied.	studied.	theories of lightwaves and be able to derive wave equations from Maxwell's equations. 2. will comprehend refraction and reflection of lightwaves and be able to explain total reflection. 3. will comprehend light emitting diodes and laser diodes and be able to explain their structures and characteristics. 4. will comprehend polarization of lightwaves and be able to explain propagation of lightwaves. 5. will comprehend optical devices and be able to explain their structures and characteristics.
	In material engineering, knowledge of organic reaction is important in order to understand the	Review of Fundamental concepts of nomenclature, structure and reaction mechanism of organic compounds through the active	1. Understanding and appreciation of both chemical structures and organic reaction mechanisms in terms
Organic Materials Chemistry (Japanese (English accepted))	polymerization reaction. it is also essential for understanding recent topics of advanced organic materials such as chemical modification to materials, supramolecular polymers, and bio-functional material. This course provides the opportunity to review fundamental concepts of organic reaction.	learning method	of electronic theory 2. Checking basic knowledge which is essential to understanding organic chemistry, such as nomenclature of organic compounds and stereochemical projection 3. Describing chemical reaction using the terms such as transition state and reaction intermediates, and

			understanding chemical kinetics and equilibrium
Phase Transitions in Materials (Japanese)	The casting or crystal growth are important processings of the solidification from molten state, therefore, the understanding of molten state is important for the material processings. In this lecture, the thermodynamics and statistical physics of molten state is introduced.	The importance of thermodynamics of molten matters will be understood. Students of this lecture can calculate the structure and properties of molten state of matters in typical cases.	1. Review the properties of liquid metals, colloidal liquid, ionic liquid. 2. Overlook thermodynamics of condensed matters. 3. Get the topics of molten materials of the latest research
Planning for Community Resilience	A lot of communities and cities in Japan and across the globe are exposed to the risk of disasters. This lecture will deal with the basic concept, technical analysis and integration methods, and planning strategies in relation to planning for community resilience, mainly focusing on natural disasters. Each class will be conducted in English with a lecture, presentations and discussions by students. The number of students will be limited to around 40 at a maximum. If the enrollment entry exceeds 40, those who have a higher score of TOEIC or equivalent English proficiency test will be accepted. The students in the Global Program will be given priority enrollment.	This course deals with the basic concept, technical analysis and integration methods, and planning strategies in relation to planning for community resilience, focusing on natural disasters such as floods, earthquakes, tsunamis, and landslides.	1. Students will learn the basic concept of planning for community resilience. 2. Students will learn about the technical analysis and integration methods of planning for community resilience. 3. Students will learn about the strategies of planning for community resilience.
Practice on Design Project 3	In this practice, you will study the principle of machine tools, actually	We learn to develop the sense of manufacturing.	 You can understand the principles of various machine tools and explain their characteristics. You can safely operate various machine tools.

	are lathes, milling machines, wire-cut electric discharge machines etc. And we will use various measuring equipments (hardness, strength, roughness, CCD, SEM) etc. We will manufacture the target product (for example, gyroscope) by using these machine tools and measuring equipments. We discuss the merits and demerits of each product.		3. You can manufacture the parts by machine tools based on the drawings.
Principles of Communication Systems	The course introduces the various methods of communication which are analog modulation/demodulation method, coding method, and digital modulation/demodulation method.	The aim of this course is to help students acquire an understanding of the basic modulation/demodulation.	1. At the end of the course, participants are able to understand some analog modulation/demodulation methods. 2. At the end of the course, participants are able to understand some coding methods. 3. At the end of the course, participants are able to understand some digital modulation/demodulation methods. 4. At the end of the course, participants are able to understand the basic of digital transmission (bit rate and error rate).
Recent Trends on Electronic Systems	This class presents recent research topics in the field of information systems. The research field includes: software engineering, constraint programming, image processing, network engineering, and social networking. Seven (7) professors in	This class is an English course to study the recent topics in the field of information systems and network systems.	1. Understand recent research topics in the field of information systems. 2. Acquire fundamental knowledge to understand recent research topics in the field of information systems. 3. Write appropriate reports according to professors' instruction.

Recent Trends on Information Systems	Department of Electronic Information Systems will serve the classes about recent trends in their research fields. Classes of each professor basically consist of a lecture and an exercise (two weeks). Follow the professors' instruction about their assignments, reports, and discussion. This class presents recent research topics in the field of electronic systems. The research field includes: compound semiconductor devices, signal processing, antenna technology, electric circuit, control theory, media processing and astrophysics. Seven (7) professors in Department of Electronic Information Systems will serve the classes about recent trends in their research fields. Classes of each professor basically consist of a lecture and an exercise (two weeks). Follow	This class is an English course to study the recent topics in the field of electronic systems and related physics.	1. Understand recent research topics in the field of electronic systems. 2. Acquire fundamental knowledge to understand recent research topics in the field of electronic systems. 3. Write appropriate reports according to professors' instruction.
Robotics (Japanese(Engli sh accepted))	A robot is a system consisting of basic technologies such as mechanism, control, material, electrical and information. To apply the robot technology to the target work, it needs to design the system according to the objective. We will study how to systemize the	The student can learn the methodologoly of a robot according to the social needs. The students can understand the elemental technolog consisting of a robot and get the ability of system integration to meet the purpose.	 To understand the design of a robot. To understand basic technologies for a robot. To understand the robot system and applications.

Semiconductor Materials	basic technologies and how to find a solution for the social problem. In the class, we will discuss the actual problems and their solutions in the practical use of a robot to acquire the ability of solving a problem. In this lecture, emphasis is put on understanding the physics of semiconductors in terms of the behavior of electrons.	*	 To understand electronic structure of semiconductors. To understand carrier generation mechanism. To understand physics of
Seminar on Mechanical Engineering 2 (Japanese(Engli sh accepted))	In this course, students in small group will learn technical writing methods and oral presentation skills in the context of a real engineering problem under the supervisor. This course also enhances the development of essential skills for oral and written communications and teamwork.	To develop the ability of technical writing methods, oral presentation skills and teamwork.	1. Students will be able to consider research results on the theme and make a presentation about them theoretically. 2. Students will be able to investigate information about the theme actively and improve your own skills. 3. Students will be able to collect information and/or reference from various databases and use them effectively. 4. Students will be able to complete the project according to schedule. 5. Students will be able to select relevant methods to solve engineering problems and carry out them.
Seminar on Technology and Society 1	This seminar gives overviews of social aspect and/or human aspect of technologies. Students consider how technology relates to society through discussion. Students in this course will also develop skills in research work and they will conduct	Students understand how technology relates to society through discussion. Students in this course will develop basic abilities and skills in research work according to their specialties. Students also develop abilities to deliver their research achievements to	1. Developing skills in gathering and analyzing information for research works from a social scientific view point. 2. Developing the problem solving ability by selecting relevant method through discussion in this course.

	research on top specialties.	ics of their the oth	ers by written and oral cation.	3. Developing the problem solving ability through report writing, presentation.
Soft Mater Engineerin		Soft bio-polics include stretches physical characterials have been to soft Recentle growing interdiction will stretches.	terials include liquid, gel, rubber and ymers. They are able and flexible in er. Various kinds of gels en developed and applied sensors and actuators. y soft rotoics are rapidly , and becomes sciplinary area. Students udy soft machines and based on soft materials. I of this course is to let s understand the of-art soft machines and together.	1. To investigate articles about soft robots from database and understand them. 2. To understand mechanics of soft materials. 3. To understand mechanical, physical and chemical properties of soft materials.
Software D	Software engine application of disciplined, quapproach to the operation and management of the basics of the engineering and what is designificated and techniques of samodelling, which important in software.	a systematic, student of software course covers modeling software cours on the course chain tenance of the software course of the software course of the software course on the course of the course of the course course of the c	of this course is to help s acquire basic knowledge ware engineering, It also s the development of s' skill in software g, which is fundamental of e design.	1. To understand the basics of software design. 2. To be able to read correctly documents described in UML (unified modeling languages). 3. To understand methods of describing various aspects of software.
Soil Mecha	(Outline and puclass) Construction st constructed on ground. There a	ructures are or under the are built as soil study of the	he basics of soil cs.	1. Understand the physical quantity of the soil and perform basic calculations. 2. Understand how to classify soil, and perform classification and analysis using appropriate indices. 3. Understand the basic mechanical concepts of soil and calculate effective

	C: . I . I		
	field.		stress.
	The main purpose of		4. Understand the
	"Mechanics of soil" is to		permeability and influence
	recognize the properties of		factors, and calculate the
	the soil material that		osmotic pressure and amount.
	composes this ground and to		
	understand the properties and		
	behavior of the soil. In		
	particular, the study focuses		
	on understanding the nature		
	of soil as a granular		
	material, the concept of		
	water permeability and		
	effective stress in the		
	ground.		
	(Attainment target)		
	As stated in the above		
	objectives, the goal is to		
	recognize the properties of		
	soil as granular material and		
	to fully understand the		
	concept of soil permeability		
	and effective stress.		
	This lecture will introduce	This course aims to develop	1.Students will learn
	the existing urban models for	modeling skills essential for	established existing urban
	understanding the structure	theoretical research in urban	models.
	and dynamics of cities. It	planning. It is aimed at students	2. Students will learn the
	will further look at how to	entering into research, and	application of modeling in
Spatial	develop models to investigate	introduces the approach of	urban planning.
	different spatial or	solving real urban planning	3. Students will be able to
Modeling and	socio-economic phenomena in	problems through the use of	utilize complex systems
Analysis	the built environment.	models and spatial analysis.	theory and simulation
	Computer-based analysis	Majority of the classes will	modeling as an approach to
	techniques will also be used	include a lecture and group	explain emergent spatial
	to find spatial patterns and	discussion based on weekly	patterns.
	relations across different	readings in English.	·
	elements.		
	This subject deals the	To understand the fundamental	1. To understand the concept
	computations as mathematical	theories of computation.	of Turing machines and to be
Theory of	objects. At present we have		able to discuss the theories
Computation	powerful computers, but they		of computation by using them.
(Japanese)	are limited by finite		2. To understand the concept
	memories and finite		of computability (Turin
	calculation times. From a		decidability) and to be able

practical point of view it is to show the desirable to develop decidability/undecidability efficient algorithms, while of a given elemental problem. from a theoretical point of 3. To understand the classes of computational view it is important to determine whether or not the complexites. objective problem can be solved by our computers (computability) at first. Next, it becomes a problem whether or not the problem can be solved in a realistic time (computational complexity). In this course, we will formulate computational models such as Turing machine or While programs and will discuss the computability theory and the computational complexity theory. This course will provide the The course is designed so that the 1. Students understand and can basic knowledge of urban and students will acquire basic explain the basic concept and regional planning in Japan knowledge of urban and reginal methodologies of urban and some foreign countries. planning used in the world, and planning in Japan History and development understand the current problems 2. Students understand and can and future tasks. Students will Urban and process of Tokyo Metropolitan explain the basic difference Regional Studies Region will also be taught and also learn the skill to conduct a of planning concept by discussed. Students will work research and presentation in the countries. on research project of one topic, using English. 3. Students has acquired the region, of urban and regional basic skills to do a research planning and do resentations and can do presentation in in the class. English.