

Course List, School of Design and Architecture(Architecture)

	Supervising faculty member	Subject	Course level / day of week / period	Language
1	Toshimitsu Kuno, Satoshi Suzuki	Advanced Study of Architectural Design	1st semester, Thursday, 1st period and 2nd period	Japanese (English also acceptable)
2	Masato Mizoguchi	Advanced Study of Conservation Methods of Historic Buildings	1st semester, Friday, 1st period and 2nd period	Japanese (English also acceptable)
3	Kenichi Suzuki	Advanced Study of Architectural Programming	2nd semester, Monday, 6th period and 7th period	Japanese (English also acceptable)
4	Kouji Shida	Advanced Study of Architectural Safety Design	2nd semester, Monday, 3rd period and 4th period	Japanese (English also acceptable)
5	Toshiaki Kimura	Advanced Study of Structural Design	1st semester, Wednesday, 3rd period	Japanese (English also acceptable)
6	Takayoshi Aoki, Hideyuki Azekami	Advanced Study of Computational Methods in Engineering	2nd semester, Thursday, 3rd period and 4th period	Japanese (English also acceptable)
7	Masayuki Harada	Advanced Study of Architectural Environment Planning	2nd semester, Friday, 6th period and 7th period	Japanese (English also acceptable)
8	Gyuyoung Yoon	Advanced Study of Building Equipment Planning	1st semester, Monday, 1st period	Japanese (English also acceptable)
9	Tai Satoh	Advanced Study of Architectural Environment Psychology	1st semester, Thursday, 6th period	Japanese (English also acceptable)
10	Tai Satoh	Advanced Study of Architectural Environment Psychology	1st semester, Thursday, 6th period	Japanese (English also acceptable)

11	Takeshi Mukaiguchi	Advanced Study of Urban and Regional Planning	1st semester, Tuesday, 6th period	Japanese (English also acceptable)
12	Satoru Kaku, Michio Matsushita	Advanced Study of Urban and Residential Areas	2nd semester, Wednesday, 6th period and 7th period	Japanese (English also acceptable)
13	Akihiko Ono	Advanced Study of Landscape Design	1st semester, Wednesday, 1th period and 2th period	Japanese (English also acceptable)
14	Yasuyuki Ito	Advanced Study of Urban and Regional Planning	2nd semester, Wednesday, 1st period and 2nd period	Japanese (English also acceptable)
15	Yasuyuki Ito, Toshimitsu Kuno, Kouji Shida, Kenichi Suzuki, Masato Mizoguchi, Satoru Kaku, Takeshi Mukaiguchi, Akihiko Ono	Studio for Architecture Design		Japanese (English also acceptable)
16	Takayoshi Aoki, Toshiaki Kimura	Studio for Architecture Design		Japanese (English also acceptable)
17	Masayuki Harada, Gyuyoung Yoon, Tai Satoh	Studio for Architecture Design		Japanese (English also acceptable)
18	Yasuyuki Ito, Satoru Kaku, Takeshi Mukaiguchi, Akihiko Ono	Studio for Urban Design		Japanese (English also acceptable)

Year of course	Academic year 2022
Subject	Advanced Study of Architectural Design
Supervising faculty member	Toshimitsu Kuno, Satoshi Suzuki
Number of credits	4 credits
Course level / day of week / period	1st semester, Thursday, 1st period and 2nd period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture, reading
Objective/ goal of course	In order to cultivate practitioners specializing in architectural design drawing, this course aims to allow students to acquire the ability to analyze execution architectural drawings necessary for use in the internship (Off-campus Internship Projects A and B). Specifically, using architectural works designed by great modern and contemporary masters as subject matter, students reproduce the space-element ordonnance they have studied in the execution drawings into their own detailed drawings and models, and attain practical vicarious experience of spatial concept of each architect.
Key words	Detail drawings in architectural design, Literacy of architectural design
Related diploma policy	
Attainment goal	Students aim to acquire literacy related to execution drawings which function as the architectural language.
Grade evaluation criteria	
Outline of course	Focusing on housing works of modern and contemporary architects by year, particularly with assignments of reading and reproducing (drawing) execution drawings (detailed plan views, detailed sectional views, detailed opening views, etc.) of these, students try to gain an understanding of the architect's design intention and the spatial characteristics of the works. This year, students will try to analyze 26 housing works produced by Kazuo Shinohara (1925 – 2006) produced in his early career (up to 1974).
Program of course	1st lecture: Guidance and Introduction 2nd lecture: A House in Kugayama 1, A House in Kugayama 2 3rd lecture: The House of the Tanigawas, A House in Komae 4th lecture: A House in Chigasaki, A Japanese Umbrella House 5th lecture: A House with Big Roof, A House with Earthen Floor 6th lecture: A House in Hanayama Kita, The House of the Asakuras 7th lecture: A House of White, A House of the Ground 8th lecture: A House in Hanayama Minami, The House of the Yamashiros 9th lecture: The House of the Suzushos, A House Left Incomplete 10th lecture: The House of the Shinos, A Cuboid Forest 11th lecture: A Homomorphic Valley, Stairs of the Sea 12th lecture: The Rectangle of Space, A House in Kugahara 13th lecture: A House in Higashi Tamagawa, A House in Seijo 14th lecture: A Right-Angle Triangular Prism, The House of the Tanigawas 15th lecture: General Discussion
Learning out of the school hour	Not only the following references, but basic knowledge which is described in some references such as about the architectural history (Japan and Western architectural history), structure engineering(structural dynamics), material characteristics (material engineering), equipment engineering (air conditioning sanitation equipment science) and building regulations etc should be finished learning already.
Performance criteria	Evaluation is based on drawings(50%) and presentations (50%) at every lesson.
Texts	"Housing Drawings by Kazuo Shinohara," <i>Shokokusha</i> , 2008 Ford, E. R., translated by Yagi, K., "Details of Great Masters I, II," <i>Maruzen</i> , 1999 Shinohara, K., "Housing Theory," <i>Kajima Institute Publishing</i> , 1970 Okuyama, S. (ed), supervised by Shinohara, K., "Aphorism – Discourse of Kazuo Shinohara about Space," <i>Kajima Institute Publishing</i> , 2004, others
Reference literature	"Kiyoshi Seike," <i>Shinken-chiku-sha</i> , 2006 "Housing Drawings by Kazuo Shinohara," <i>Shokokusha</i> , 2008 Ford, E. R., translated by Yagi, Y., "Details of Great Masters I, II," <i>Maruzen</i> , 1999, others
Course requirements	
Precautions and requirements	As this lecture aims to get the licence for the exam of "Japan Architects Profession", it is essential to have learned already the knowledge of the history, structure, equipment etc. to entry this lecture.
Active learning	drawing presentation and discussion
Office hours and contact information	Wednesday, 17:00 – 19:00, Kuno Laboratory Office(Inform Kuno lab. of it by email:tokuno@sda.nagoya-cu.ac.jp)
Remarks	For foreign students, check the Japanese proficiency by the faculty in charge of this lecture before registration.

Year of course	Academic year 2022
Subject	Advanced Study of Conservation Methods of Historic Buildings
Supervising faculty member	Masato Mizoguchi
Number of credits	2 credits
Course level / day of week / period	1st semester, Friday, 1st period and 2nd period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	In order to cultivate practitioners specializing in architectural design, this course aims to allow students to acquire theories and practical knowledge related to preservation design necessary for use in the internship. Students learn planning methods for preservation and utilization, in conformity with current regulations and functions, and associated architectural design techniques, particularly as those relate to historic buildings that should be socially preserved.
Key words	Preservation, Historic Buildings, Renovation Techniques, Preservation Districts for Groups of Historic Building
Related diploma policy	
Attainment goal	Students aim to familiarize themselves with the features of the design and form techniques for architecture that should be socially preserved, such as important buildings for landscape and national registered tangible cultural properties of buildings, plan preservation and utilization of such buildings in accordance with the relevant regulations and preservation theories, and reflect the planning in the architectural design.
Grade evaluation criteria	
Outline of course	The theories and design techniques necessary for preservation planning in which practitioners specializing in architectural design are engaged will be discussed. Students are lectured on the philosophy of preserving buildings having social value and the theory and social system on which the philosophy is based, and then consider techniques and methods to form an actual design plan.
Program of course	<ol style="list-style-type: none"> 1. Perspective and Reality of Architectural Evaluation as Social Stock 2. Preservation and Utilization Plan Formation Related Laws and Regulations1 3. Preservation and Utilization Plan Formation Related Laws and Regulations2 4. Summary of Social and Technical Assumption for Sustainable Use of Historic Buildings 5. Examination of Utilization of Important Buildings for Landscape and Cultural Properties1 6. Examination of Utilization of Important Buildings for Landscape and Cultural Properties2 7. Basis and Methods for Grasping Architectural Features of Historic Buildings1 8. Basis and Methods for Grasping Architectural Features of Historic Buildings2 9. Renovation Techniques for Space and Structure1 10. Renovation Techniques for Space and Structure2 11. Renovation Techniques for Space and Structure3 12. Renovation Techniques for Space and Structure4 13. Designing for Landscape Areas and Preservation Districts for Groups of Historic Buildings1 14. Designing for Landscape Areas and Preservation Districts for Groups of Historic Buildings2 15. Summary
Learning out of the school hour	The basic knowledge such as about the architectural history (Japan and Western architectural history), structure engineering(structural dynamics), material characteristics (material engineering), equipment engineering (air conditioning sanitation equipment science) and building regulations etc should be finished learning already.
Performance criteria	Evaluation is based on attendance (50%) and reports (50%).
Texts	Information materials are distributed during each lecture.
Reference literature	Reference literature is introduced as appropriate during the course.
Course requirements	
Precautions and requirements	As this lecture aims to get the licence for the exam of "Japan Architects Profession", it is essential to have learned already the knowledge of the history, structure, equipment etc. to entry this lecture. Due to the nature of the course, the course includes off-campus fieldworks on actual historical building, on the main part of the course are lectured in Japanese.
Active learning	A fieldwork and a discussion are included.
Office hours and contact information	Tuesday, 10:00 – 12:00 Appointment by e-mail preferred (mizo@sda.nagoya-cu.ac.jp).

Remarks	For foreign students, check the Japanese proficiency by the faculty in charge of this lecture before registration.
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Year of course	Academic year 2022
Subject	Advanced Study of Architectural Programming
Supervising faculty member	Kenichi Suzuki
Number of credits	2 credits
Course level / day of week / period	2nd semester, Monday, 6th period and 7th period
Language	Japanese (English also acceptable)
Subtitle	Design Planning for Public Architecture
Mode of class	Lecture
Objective/ goal of course	This course deals, at a practical level, with the techniques and theories for planning and designing public facilities that may have significant effects on the richness of social life of humans in urban areas.
Key words	Architectural planning, School facilities, Hospital, Planning process
Related diploma policy	
Attainment goal	Students aim to learn the condition summarizing technique necessary for architectural planning for public facilities, and, at the same time, acquire basic working-level concepts and the planning theory necessary at the basic planning stage.
Grade evaluation criteria	
Outline of course	Among public facilities, this course examines public hospitals interlocked with the medical system, and elementary and junior high schools interlocked with educational system. Specifically, explanations are provided of the scale calculation technique for facilities as required for the architectural planning for such public facilities, theories of their layout planning and floor planning, their roles as local facilities, and their design process and technique.
Program of course	<ol style="list-style-type: none"> 1) Outline of Planning and Design Techniques for Public Facilities 2) Summary of Planning Conditions for School Architecture 1 3) Summary of Planning Conditions for School Architecture 2 4) Scale Calculation for School Architecture 5) Management Method for School Architecture 6) Block Planning for School Architecture 7) Floor Planning for Classrooms in School Architecture 8) Problems in Planning of School Architecture 9) Summary of Planning Conditions for Hospital Architecture 1 10) Summary of Planning Conditions for Hospital Architecture 2 11) Scale Calculation for Hospital Architecture 12) Management Method for Hospital Architecture 13) Block Planning for Hospital Architecture 14) Floor Planning for Medical Wards in Hospital Architecture 15) Planning and Design Process for Public Facilities
Learning out of the school hour	Prepare class content of the next week. Do the problem that was not possible in a class by next week.
Performance criteria	Evaluation is based on presentations (50%) and attendance (50%).
Texts	Information materials are distributed as appropriate.
Reference literature	Reference literature is introduced as appropriate during the lecture.
Course requirements	
Precautions and requirements	Students are to aim to acquire practical skills.
Active learning	Group work and presentation
Office hours and contact information	Monday, 12:00 – 13:00 E-mail: ken@sda.nagoya-cu.ac.jp
Remarks	

Year of course	Academic year 2022
Subject	Advanced Study of Architectural Safety Design
Supervising faculty member	Kouji Shida
Number of credits	2 credits
Course level / day of week / period	2nd semester, Monday, 3rd period and 4th period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to acquire the basic knowledge of fire safety design, a field common to all students who take part in internship (Off-campus Internship Projects A and B) in each area of architectural design, structure design and equipment design.
Key words	fire safety design, human behavior, heat and smoke behavior
Related diploma policy	
Attainment goal	Students aim to learn method to verify evacuation safety performance and fire-resistance performance, and design (performance design), as specified in the Amended Building Standards Act (June 2000) and the Order for Enforcement of the Building Standards Act.
Grade evaluation criteria	
Outline of course	Based on the theories of combustion, fire, heat and smoke behavior, human behavior and structural element behavior in incidences of architectural fire, which students have acquired, students learn how to consolidate design through specific design cases, mainly of the layout scale design for evacuation facilities among evacuation safety performance in the architectural design field; smoke control design among evacuation safety performance in the equipment field; and fire-retarding division design and structural fire-resistance design among fire-resistance performance in the structure field.
Program of course	<ol style="list-style-type: none"> 1. System of Fire Safety Design, and Positioning within the Architectural Design Process 2. Relationship between the Theory of Fire Phenomena in Architectural Fire (Combustion Behavior of Materials and Combustibles) and Performance Verification 3. Relationship between the Theory of Fire Phenomena in Architectural Fire (Behavior of Fire and Smoke) and Performance Verification 4. Relationship between Spread Phenomena in Architectural Fire and Performance Verification 5. Overview of Fire Safety Design System Based on Performance Theory 6. Evacuation Safety Verification Method, and Design Consolidation Method (1) 7. Evacuation Safety Verification Method, and Design Consolidation Method (2) 8. Evacuation Safety Verification Method, and Design Consolidation Method (3) 9. Verification Method and Design Consolidation Method for High Evacuation Safety Performance 10. Verification Method and Design Consolidation Method for Fire-Retarding Division 11. Verification Method and Design Consolidation Method for Fire-Resistance Performance (1) 12. Verification Method and Design Consolidation Method for Fire-Resistance Performance (2) 13. Verification Method and Design Consolidation Method for Fire-Resistance Performance (3) 14. Inspection Tour of Construction Sites (Implementation date determined by the construction site) 15. Summary 16. Presentation of Report (Assignment)
Learning out of the school hour	<ul style="list-style-type: none"> -Students should preferably have completed a basic course related to architectural fire safety in their undergraduate studies. -Students should prepare the contents of the lecture text and prepare explanatory materials.
Performance criteria	Evaluation is based on presentations and reports.
Texts	Architectural Institute of Japan, "Fire Safety and Architectural Design," <i>Asakura Publishing</i>
Reference literature	<p>Harada, K., "Mechanisms of Architectural Fire and Fire Safety Design," The Building Center of Japan</p> <p>Disaster Preparedness Study Group AFRI, "How to View and Consolidate Architectural Fire Prevention Planning," Ohmsha</p> <p>Tanaka, T., "Introduction to Architectural Fire Safety Engineering," The Building Center of Japan</p> <p>Additional supplementary material to be distributed</p>
Course requirements	
Precautions and requirements	In addition to enrolment, students should express their intention to receive the lecture in advance before the date of the first lecture by e-mail to sdkjmh3@sda.nagoya-cu.ac.jp.
Active learning	
Office hours and contact information	Tuesday E-mail: sdkjmh3@sda.nagoya-cu.ac.jp
Remarks	

Year of course	Academic year 2022
Subject	Advanced Study of Structural Design
Supervising faculty member	Toshiaki Kimura
Number of credits	2 credits
Course level / day of week / period	1st semester, Wednesday, 3rd period
Language	Japanese (English also acceptable)
Subtitle	Theory and Method of Structural Design
Mode of class	Lecture
Objective/ goal of course	In order for students to construct safe and economical living spaces, it is necessary to familiarize themselves with the static and dynamic behavior of the structural system and understand various structural design techniques. Through systematic theory study and seminar, students aim to deepen their understanding of various structural design theories and cultivate their application ability.
Key words	Structural analysis, Structural optimization
Related diploma policy	
Attainment goal	Students aim to acquire the ability to do the following: (1) Perform eigenvalue calculation and vibrational response calculation for simple mass-point vibration systems, (2) Perform plastic collapse load calculation for simple building frame systems, (3) Execute aseismic design through marginal proof strength calculation for simple structure systems, (4) Understand proof strength and load coefficients in the limit state design method, and (5) Solve applied problems of mathematical programming.
Grade evaluation criteria	
Outline of course	Students systematically learn the concepts and methods of the current structural design, deepen their understanding of structural responsive behavior, such as the plastic and dynamic behaviors in structural systems, and learn the mathematical programming necessary for new structural design methods based on the stochastic method and optimum structural design and their application to structural design.
Program of course	[1] Concept of Current Designing Methods (Transition of Structural Rules and Regulations, Goal of Structural Design, Structural Performance) [2] Structural Design by Calculation of Allowable Stress and Lateral Load Bearing Capacity [3] Overview of Mass-Point System Dynamics (1) [4] Overview of Mass-Point System Dynamics (2) [5] Overview of Plastic Analysis of Building Frame Systems [6] Structural Design by Marginal Strength Calculation (1) [7] Structural Design by Marginal Strength Calculation (2) [8] Limit State Design Method (1) Introduction of Stochastic Method [9] Limit State Design Method (2) Reliability Theory [10] Limit State Design Method (3) Designing Examples of Simple Systems [11] Preface of Structural Optimization (Optimization Problems and Mathematical Programming) [12] Linear Programming and Its Applications [13] Branch and Bound Method and Its Applications [14] Genetic Algorithms and Their Application [15] Explanation and Summary of Seminars and Reports
Learning out of the school hour	As described in the above program of course, students are requested to prepare for the next week's lecture and to review for the program operation introduced during lecture.
Performance criteria	Evaluation is based on attendance and assignment reports.
Texts	Printouts, etc. are distributed as appropriate.
Reference literature	(1) Nakamura (written and edited by), "Illustration of Dynamics of Architectural Structure, with Exercises II," <i>Maruzen</i> (2) Ono (written and edited by), "Earthquake and Architectural Disaster Preparedness Engineering," <i>Rikoh Tosho</i> (3) Kirsch, U. (written by), and Yamada and Okubo (translated and supervised by), "Optimum Structural Design – Concepts, Methods and Applications," <i>Maruzen</i> (4) Other relevant books
Course requirements	
Precautions and requirements	Students are to carry out exercise assignments to deepen their understanding.
Active learning	Discussion and presentation
Office hours and contact information	Monday 9:00~12:00 tkimura@sda.nagoya-cu.ac.jp

Remarks	
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Year of course	Academic year 2022
Subject	Advanced Study of Computational Methods in Engineering
Supervising faculty member	Takayoshi Aoki, Hideyuki Azekami
Number of credits	2 credits
Course level / day of week / period	2nd semester, Thursday, 3rd period and 4th period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to learn how to analyze the optimum form of field by applying the optimization theory to the subject of field that has been dealt with in continuum mechanics, and understand the mathematical science of the optimum arrangement.
Key words	Non-linear optimization, Finite element method, Shape optimization, optimum arrangement
Related diploma policy	
Attainment goal	Students aim to understand the non-linear optimization theory and the principle of the finite element method, and, based on this, understand the mathematical principle of shape optimization and optimum arrangement.
Grade evaluation criteria	
Outline of course	<p>“Advanced Study of Computational Methods in Engineering” presents the simulation theory using numerical analysis and its application in product development, architectural planning and structural design.</p> <p>In this course, students overview elastic-plastic science, which forms the basis of structural analysis, and discuss computer simulation techniques represented by the finite element method.</p>
Program of course	<p>1-2 Guidance / Non-linear Optimization Theory 3-4 Non-linear Optimization Theory / Basis of Optimum Design 5-6 Boundary Value Problems in Partial Differential Equations 7-8 Finite Element Method 9-10 Shape and Phase Optimization Problems 11-12 Mathematical Principle of Optimum Arrangement / Optimization Simulation in the Architectural Planning Field 13-14 Optimization Simulation in the Architectural Structure Field 15-16 Summary</p>
Learning out of the school hour	Students are needed to read the teaching materials distributed before the lecture. And students have to read the materials again after the lecture.
Performance criteria	Reports (100%)
Texts	Information materials to be distributed.
Reference literature	
Course requirements	
Precautions and requirements	
Active learning	
Office hours and contact information	Tuesday, 9:00 – 12:00 E-mail: aoki@sda.nagoya-cu.ac.jp
Remarks	

Year of course	Academic year 2022
Subject	Advanced Study of Architectural Environment Planning
Supervising faculty member	Masayuki Harada
Number of credits	2 credits
Course level / day of week / period	2nd semester, Friday, 6th period and 7th period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to understand human-environment interaction, which forms the basis for discussion of architectural environment or urban environment, and investigate, analyze and evaluate such interaction, and make use of these in architectural environment planning.
Key words	Environment Planning, Environmental Psychology, Environment Behavior
Related diploma policy	
Attainment goal	Students aim to acquire the ability to investigate, analyze and evaluate the interaction between the architectural environment and urban environment and the psychology and behavior of human beings, and make use of the results of the investigation, analysis and evaluation in architectural environment planning.
Grade evaluation criteria	
Outline of course	Students learn how to investigate, analyze and evaluate the interaction between the architectural environment and urban environment and the psychology and behavior of human beings by studying advanced cases and research, as well as acquire an understanding of how to make use of the results of the investigation, analysis and evaluation for architectural environment planning, and acquire skills to make practical use of these.
Program of course	1st – 2nd week: Relation between Architectural Environment Planning and Human Psychology and Behavior 3rd – 4th week: Visual Environment Planning and Human Psychology and Behavior through Case Studies 5th – 6th week: Heat Environment Planning and Human Psychology and Behavior through Case Studies 7th – 8th week: Design and Architectural Environment Planning 9th – 10th week: Investigation Method for Environmental Psychology and Environmental Behavior in Architectural Environment Planning 11th – 12th week: Analysis and Evaluation Methods for Environmental Psychology and Environmental Behavior in Architectural Environment Planning 13th – 15th week: Presentation of Final Assignment and General Discussion
Learning out of the school hour	
Performance criteria	Evaluation is based on presentations and submitted assignments (100%).
Texts	Information materials are distributed as appropriate, and reference books are introduced during the course.
Reference literature	
Course requirements	
Precautions and requirements	Students are requested to acquire practical skills as a precondition. Assignments are set as appropriate. Students are encouraged not to be absent from the course.
Active learning	Students are requested to make preconditions on some assignments
Office hours and contact information	Friday, 13:00 – 15:00 Other times also acceptable when the supervising faculty member is in his office, though immediate response may sometimes not be possible; To ensure availability, make an appointment with beforehand. Phone: 052-721-3285; E-mail: harada@sda.nagoya-cu.ac.jp
Remarks	Keywords: Architectural environment planning, Environmental psychology, Environmental behavior

Year of course	Academic year 2022
Subject	Advanced Study of Building Equipment Planning
Supervising faculty member	Gyuyoung Yoon
Number of credits	2 credits
Course level / day of week / period	1st semester, Monday, 1st period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to acquire the basic knowledge of architectural equipment design, which is a field common to architectural design, structural design and equipment design in preparation for the internship (Off-campus Internship Projects A and B).
Key words	Insight of Energy Consumption, Building Energy Conservation and Technologies
Related diploma policy	
Attainment goal	Students aim to understand the current situation of and policy concerning the energy consumption of the world, including Japan, and related trends, and develop their ability to incorporate laws and regulations for the streamlining of energy consumption (e.g., Law Concerning the Rational Use of Energy) and technical guidance on energy saving for architecture and equipment into their architectural design.
Grade evaluation criteria	
Outline of course	The course introduces the energy consumption structure of buildings, describes specific energy-saving measures, and gives relevant basic knowledge to enable students to understand and adopt them into their design work.
Program of course	1st week: Introduction to Architectural Equipment Design 2nd week: Structure and Trends of Energy Consumption in the World including Japan 3rd week: Architectural Equipment and Laws and Regulations (Law Concerning the Rational Use of Energy, and Technical Guideline on Energy Saving) 4th week: Evaluation Tools for Buildings and Systems 5th week: Energy-Saving Measures (Load Reduction) 6th week: Energy-Saving Measures (Energy Efficiency Improvement) 7th week: Energy-Saving Measures (Natural and Untapped Energy) 8th week: Net Zero Energy Building (ZEB) 9th week: Tools Related to Air-Conditioning Equipment Design (Heat Load Calculation Tools) 10th week: Tools Related to Air-Conditioning Equipment Design (Energy Simulation Tools) 11th week: Tools Related to Air-Conditioning Equipment Design (Fluid Analysis Tools) 12th week: Energy Management Tools for Air-Conditioning Equipment (BEMS, etc.) 13th week: Control of Air-Conditioning Equipment (Control Theory and System Control) 14th week: Fundamental of Statics and Data Science Methodology 15th week: Neural Network and Machine learning
Learning out of the school hour	In every lecture, a report will be imposed concerning on the contenc of lecture and have a presentation. Review the content of every lecture through preparation a report and presenation.
Performance criteria	Evaluation is based on presentations and reports.
Texts	Information materials to be distributed.
Reference literature	"Technical Guidelines on Energy Saving for Housing/Non-housing Architecture and Equipment," Japan White Paper
Course requirements	
Precautions and requirements	
Active learning	Presentation and discussion for better understanding
Office hours and contact information	Wednesday, 1st hour and 2nd hour Extension: 3175
Remarks	

Year of course	Academic year 2022
Subject	Advanced Study of Architectural Environment Psychology
Supervising faculty member	Tai Satoh
Number of credits	2 credits
Course level / day of week / period	1st semester, Thursday, 6th period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to consider architecture and urban space based on understanding the concept and the methodology of environmental psychology/behavior and other related academic fields.
Key words	Environmental Psychology / Environmental Behavior / Interdisciplinary Study
Related diploma policy	
Attainment goal	Through this lecture, you can learn the concept of environmental psychology/behavior, cognitive science, ecological psychology and organizational psychology/culture and you can develop an environmental design based on understanding of the "human" who is a user of architecture and urban space.
Grade evaluation criteria	A: Achieving the attainment target sufficiently and developing a specific environmental proposal B: Achieving the attainment target sufficiently C: Achieving the minimum attainment target
Outline of course	Students will learn the concept and methodology to capture human psychology and behavior from various viewpoints, including environmental psychology/behavior. Based on these contents, You will conduct brief survey and consideration from your own viewpoint and present improvement plans for the future architecture and urban space that will be mixed more fluidly.
Program of course	1st: Introduction 2nd: Research of Environmental Psychology / Environmental Behavior 3rd: Quantitative Attitude Survey learned from Practice 4th: Descriptive Multivariate Analysis 5th: Qualitative Attitude Survey learned from Practice 6th: Perspective of Organizational Psychology / Organizational Culture 7th: Behavior Observation Research learned from Practice 8th: Perspective of Cognitive Science / Ecological Psychology 9th: Review of the first half 10th: University / Office / Town Environment Improvement_Consideration 11th: University / Office / Town Environment Improvement_Presentation 1 12th: University / Office / Town Environment Improvement_Tutorial 13th: University / Office / Town Environment Improvement_Presentation 2 14th: University / Office / Town Environment Improvement_Tutorial 15th: University / Office / Town Environment Improvement_Last Presentation
Learning out of the school hour	Be conscious of the relationship between architecture and the "human" who is the user, and the relationship between architecture and other fields.
Performance criteria	Evaluation is based on reaction paper of each lecture and final presentation (reaction papers:final presentation=30:70).
Texts	
Reference literature	Architectural Institute of Japan, "Design of Human-Environment System," Shokokusha, 1997 Architectural Institute of Japan, "Humanizing The Built Environment," Shokokusha, 2001 Takahashi, T. & Team EBS, "Data File of Environmental Behavior," Shokokusha, 2003
Course requirements	
Precautions and requirements	
Active learning	Presentation, Interactive Lecture
Office hours and contact information	e-mail: tai_satoh@sda.nagoya-cu.ac.jp Thursday, 10:00-13:00 Be sure to make an appointment in advance by e-mail.
Remarks	

Year of course	Academic year 2022
Subject	Advanced Study of Architectural Environment Psychology
Supervising faculty member	Tai Satoh
Number of credits	2 credits
Course level / day of week / period	1st semester, Thursday, 6th period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to consider architecture and urban space based on understanding the concept and the methodology of environmental psychology/behavior and other related academic fields.
Key words	Environmental Psychology / Environmental Behavior / Interdisciplinary Study
Related diploma policy	
Attainment goal	Through this lecture, you can learn the concept of environmental psychology/behavior, cognitive science, ecological psychology and organizational psychology/culture and you can develop an environmental design based on understanding of the "human" who is a user of architecture and urban space.
Grade evaluation criteria	A: Achieving the attainment target sufficiently and developing a specific environmental proposal B: Achieving the attainment target sufficiently C: Achieving the minimum attainment target
Outline of course	Students will learn the concept and methodology to capture human psychology and behavior from various viewpoints, including environmental psychology/behavior. Based on these contents, You will conduct brief survey and consideration from your own viewpoint and present improvement plans for the future architecture and urban space that will be mixed more fluidly.
Program of course	1st: Introduction 2nd: Research of Environmental Psychology / Environmental Behavior 3rd: Quantitative Attitude Survey learned from Practice 4th: Descriptive Multivariate Analysis 5th: Qualitative Attitude Survey learned from Practice 6th: Perspective of Organizational Psychology / Organizational Culture 7th: Behavior Observation Research learned from Practice 8th: Perspective of Cognitive Science / Ecological Psychology 9th: University / Office / Town Environment Improvement_Explanation 10th: University / Office / Town Environment Improvement_Research Planning 11th: University / Office / Town Environment Improvement_Consultation on Analysis 12th: University / Office / Town Environment Improvement_Analysis 13th: University / Office / Town Environment Improvement_Consideration of Proposal 14th: University / Office / Town Environment Improvement_Consideration of Presentation 15th: University / Office / Town Environment Improvement_Last Presentation
Learning out of the school hour	Be conscious of the relationship between architecture and the "human" who is the user, and the relationship between architecture and other fields.
Performance criteria	Evaluation is based on reaction paper of each lecture and final presentation (reaction papers:final presentation=30:70).
Texts	
Reference literature	Architectural Institute of Japan, "Design of Human-Environment System," Shokokusha, 1997 Architectural Institute of Japan, "Humanizing The Built Environment," Shokokusha, 2001 Takahashi, T. & Team EBS, "Data File of Environmental Behavior," Shokokusha, 2003
Course requirements	
Precautions and requirements	
Active learning	Presentation, Interactive Lecture
Office hours and contact information	e-mail: tai_satoh@sda.nagoya-cu.ac.jp Thursday, 10:00-13:00 Be sure to make an appointment in advance by e-mail.
Remarks	

Year of course	Academic year 2022
Subject	Advanced Study of Urban and Regional Planning
Supervising faculty member	Takeshi Mukaiguchi
Number of credits	2 credits
Course level / day of week / period	1st semester, Tuesday, 6th period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to acquire the specialized knowledge of the formation of cities and villages. In the urban space we see vaguely day-to-day, there are various problems and possibilities in concealment, and it is difficult for those who have no knowledge of the city to find them. Through this course, it is hoped that students will learn how to look at cities and regions having time axes – how they have come into being and developed, and how they will develop in the future – and cultivate basic intellectual ability for viewing cities from a new viewpoint.
Key words	City, Village, History
Related diploma policy	
Attainment goal	First, students aim to acquire academically specialized knowledge. Second, students aim to decipher modern cities and villages from the historical viewpoint based on their specialized knowledge and information materials.
Grade evaluation criteria	
Outline of course	Students learn through the following three types of lecture content in turn: 1) Lecture for acquiring basic knowledge related to the formation of Japanese cities 2) Field lecture for actually observing city space and village space, and verifying the characteristics 3) City analysis to be made individually by collecting maps and information materials
Program of course	1. Origin and Formation of Cities 2. Nagoya of Early Modern and Modern Times 3-4. Field Lecture A) Machiya (Traditional Townhouse) and City 5. Formation and Development of City and Town 6-7. Field Lecture B) Village 8. Formation of Kyoto as the ancient capital 9. Castle Town of Early Modern Times 10. Modernization of Cities 11-12. City Analysis 1 – Selection of Region for Analysis 13-14. City Analysis 2 – Preparation of Analysis Map 15. City Analysis 3
Learning out of the school hour	Understand reference books introduced in each lecture
Performance criteria	Evaluation is based on the report (100%). If the number of attendance times is short of the prescribed number, the student will no longer be eligible for report submission.
Texts	
Reference literature	Takahashi, Y., "Illustrated History of City Planning," University of Tokyo Press Other reference literature is introduced as appropriate during the course.
Course requirements	
Precautions and requirements	Students are required to pay practical training expenses, including travel expenses, for the field lecture. Details are given at the first lecture.
Active learning	In the "analysis" times, we will discuss and discuss examples brought by each
Office hours and contact information	After the lecture, etc. The supervising faculty member is usually available when in his office. E-mail: muka@sda.nagoya-cu.ac.jp
Remarks	To be a condition of the course to have basic knowledge of Japanese history and Japanese architectural history. If you wish to take this class in English, please consult in advance

Supervising faculty member	Satoru Kaku, Michio Matsushita
Number of credits	2 credits
Course level / day of week / period	2nd semester, Wednesday, 6th period and 7th period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to have students understand that city and regional environment is made up of diversified elements through the analysis of specific space, and, based on this, cultivate an ability to understand invisible elements, such as the historic background of city and regional formation, the culture nurtured there, the people living there, the possession of land, and laws and regulations.
Key words	Architecture, City, City planning, History and suburb
Related diploma policy	
Attainment goal	(1) Students aim to acquire the ability to understand the hardware elements composing the city and regional environment, and organize them. (2) Students aim to acquire the ability to understand the software elements composing the city and regional environment, and organize them. (3) Students aim to acquire the ability to adequately explain the city and regional environment from the viewpoint of both hardware and software elements.
Grade evaluation criteria	
Outline of course	This course describes how to analyze the background that led to the development of cities or regions, the composing elements of the background, and the philosophy of the developers. Then, each student conducts field observations and investigation of information materials of Nagoya and nearby cities and regions to pursue the subject multi-directionally.
Program of course	(1)–(2) Recognition of Cities and Regions + Character and Type of Cities and Regions (3)–(4) Perspectives for Deciphering Japanese Cities + Understanding of Cities through Classic Books (5)–(6) Cities Referred to in Classic Books [Report presentation by students I] (7)–(8) Information Materials for Understanding Cities and Regions 《Field observation and investigation I》 (9)–(10) Real Space in Cities and Regions: New Towns 《Field observation and investigation II》 (11)–(12) Establishment of Urban and Regional Environment [Report presentation by students II] (13)–(14) Space in Urban and Regional Environment [Field observation and investigation III] (15) Future of Japanese Cities and Regions: General Discussion [Report presentation by students III]
Learning out of the school hour	Not only the following references, but basic knowledge which is described in some references such as about the architectural history (Japan and Western architectural history), structure engineering (structural dynamics), material characteristics (material engineering), equipment engineering (air conditioning sanitation equipment science) and building regulations etc should be finished learning already.
Performance criteria	Evaluation is made comprehensively based on reports and presentations (70%) and explanations during field observation (30%).
Texts	Not specified
Reference literature	Reference literature is introduced as appropriate during the lecture.
Course requirements	
Precautions and requirements	Besides lectures, the course may take the form of field observation or investigation around Nagoya City, nearby cities or resource centers, etc. Students are required to attend all such course activities. As this lecture aims to get the licence for the exam of "Japan Architects Profession", it is essential to have learned already the knowledge of the history, structure, equipment etc. to entry this lecture.

Year of course	Academic year 2022
Subject	Advanced Study of Landscape Design
Supervising faculty member	Akihiko Ono
Number of credits	2 credits
Course level / day of week / period	1st semester, Wednesday, 1th period and 2th period
Language	Japanese (English also acceptable)
Subtitle	Understanding philosophy of gardens and landscape architectures
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to understand philosophy of landscape architects and japanese gardeners through model making, spatial analyses.
Key words	Landscape Architecture, garden design, vegetation design
Related diploma policy	
Attainment goal	Through this lecture, you can learn skills to read and analysis garden design and landscape architectures and apply it to design
Grade evaluation criteria	A: achieve desirable result B: achieve average result C: achieve minimum result
Outline of course	You should research and analysis historical gardens or spaces with a theme I will tell you in the introduction. You should have presenatition about your results with diagrams and models. After research phase, you apply the result to design for a competition or project.
Program of course	1 Introduction 2-3 presentation 1 (historical garden research) 4-5 presentation 2 (historical garden research) 6-7 presentation 3 (historical garden research) 8-9 Esquisse 1 10-11 Esquisse 2 11-12 Esquisse 3 13-14 Esquisse 4 15 Final presentation
Learning out of the school hour	You should visits several sites not only in Nagoya, maybe to Kyoto, Tokyo
Performance criteria	Evaluation is based on the results of your presentation
Texts	No specific text. Introduced as appropriate during the course.
Reference literature	Introduce some books as appropriate during the course.
Course requirements	Design skills (not necessary for landscape design and garden design)
Precautions and requirements	Design skills (not necessary for landscape design and garden design)
Active learning	We visit several gardens or landscape design projects for design
Office hours and contact information	Every Wednesday, 9:00 – 18:00
Remarks	

Year of course	Academic year 2022
Subject	Advanced Study of Urban and Regional Planning
Supervising faculty member	Yasuyuki Ito
Number of credits	2 credits
Course level / day of week / period	2nd semester, Wednesday, 1st period and 2nd period
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Lecture
Objective/ goal of course	This course aims to allow students to discover a variety of viewpoints for closely analyzing techniques for urban and regional spaces, and pursue the formation of important architecture making up modern urban spaces.
Key words	Map, Image, Movie, Painting
Related diploma policy	
Attainment goal	Students participating in the course aim to discover their own viewpoint.
Grade evaluation criteria	
Outline of course	This course proceeds with the following two main points of focus: 1) Urban space and scenery are captured in various forms in visual media, such as moving images and stationary images (e.g., maps, posters, magazines, comics). Students analyze the characteristics of urban space and scenery as captured by such diverse media. 2) Students go deep into the construction of modern and contemporary architecture particularly that which came into being during the period from the latter half of the 19th century to the present day, and critically examine their positions within urban space.
Program of course	The following eight lectures, 2-hour period every week, are planned: 1) Urban Space as Established in Moving Images 2) Modern and Contemporary Urban Architecture 1: Space, Time and Architecture 3) Urban Space as Established in Stationary Images 4) Modern and Contemporary Urban Architecture 2: Dawn and Bloom of Modern Architecture 5) Attitude of Contemporary Architecture toward Cities 6) Modern and Contemporary Urban Architecture 3: Delirious New York 7) Architecture, Arts and Urban Space at the Present Time (Adjunct Instructor Taro Igarashi) 8) Debrief and Discussion
Learning out of the school hour	Read the recommended books in the class and make reports in the next class.
Performance criteria	Evaluation is based on presentations at the debrief session.
Texts	Information materials are distributed as appropriate.
Reference literature	
Course requirements	
Precautions and requirements	
Active learning	Reading and discussion.
Office hours and contact information	Wednesday, 15:00 – 17:00 Students wishing to see the supervising faculty member are requested to make an appointment.

Remarks	
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Year of course	Academic year 2022
Subject	Studio for Architecture Design
Supervising faculty member	Yasuyuki Ito, Toshimitsu Kuno, Kouji Shida, Kenichi Suzuki, Masato Mizoguchi, Satoru Kaku, Takeshi Mukaiguch, Akihiko Ono
Number of credits	4 credits
Course level / day of week / period	
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Seminar
Objective/ goal of course	This course aims to allow students to acquire knowledge and techniques necessary for performing architectural design operations in the internship (Off-campus Internship Projects A and B) through assistance work of practical architectural design from planning to execution design according to the theme set by each supervising faculty member.
Key words	
Related diploma policy	
Attainment goal	Students aim to acquire practical techniques for architectural design from planning to execution design.
Grade evaluation criteria	
Outline of course	Students are assigned with assistance work of practical operations of architectural design (execution competitions, execution design, basic plot building work, etc.) in which each supervising faculty member is involved, with the intent to acquire techniques through OJT (on-the-job training), and learn how to proceed with architecture in accordance with the architectural design process.
Program of course	<p>One-year Master's course (15 classes): Design</p> <p>1st class: Examination of Architectural Program</p> <p>2nd class: Planning of Architectural Program</p> <p>3rd class: Analysis of Building Site 1 (Surrounding conditions)</p> <p>4th class: Analysis of Building Site 2 (Laws and Regulations, Geological Survey)</p> <p>5th class: Summary of Planning Conditions (Area)</p> <p>6th class: Volume Study</p> <p>7th class: Block Plan</p> <p>8th class: Examination of Plain Surface and Cross-Section Surface 1</p> <p>9th class: Examination of Plain Surface and Cross-Section Surface 2</p> <p>10th class: Examination of Plain Surface and Cross-Section Surface 3</p> <p>11th class: Examination of Structural Format 1</p> <p>12th class: Examination of Plain Surface, Cross-Section Surface, and Elevation Surface 1</p> <p>13th class: Examination of Structural Format 2</p> <p>14th class: Examination of Plain Surface, Cross-Section Surface, and Elevation Surface 2</p> <p>15th class: Preparation of 3D Renderings</p> <p>One-year Doctor's course (8 classes): Competition</p> <p>1st class: Understanding of Essential Points</p> <p>2nd class: Volume Study</p> <p>3rd class: Evolution of Concept</p> <p>4th class: Establishment of Concept</p> <p>5th class: Model Study</p> <p>6th class: Preparation of 3D Renderings</p> <p>7th class: Preparation of Drawings</p> <p>8th class: Preparation for Final Presentation</p>
Learning out of the school hour	Basic knowledges for architectural design which is described in some references such as about the architectural history (Japan and Western architectural history), structure engineering(structural dynamics), material characteristics (material engineering) and equipment engineering (air conditioning sanitation equipment science) should be finished learning already.
Performance criteria	Evaluation is based on assignment results.
Texts	
Reference literature	
Course requirements	
Precautions and requirements	
Active learning	
Office hours and contact information	
Remarks	For foreign students, check the Japanese proficiency by the faculty in charge of this lecture before registration.

Year of course	Academic year 2022
Subject	Studio for Architecture Design
Supervising faculty member	Takayoshi Aoki, Toshiaki Kimura
Number of credits	4 credits
Course level / day of week / period	
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Seminar
Objective/ goal of course	This course aims to allow students to acquire knowledge and techniques necessary for performing architectural structure design operations in the internship (Off-campus Internship Projects A and B) through practical seminars of architectural structure design from basics to execution design.
Key words	Structural design
Related diploma policy	
Attainment goal	Students aim to acquire practical techniques for architectural structure design from basics to execution design.
Grade evaluation criteria	
Outline of course	After learning the basic knowledge of architectural structure design, students are assigned with seminars of practical operations of architectural structure design (structural planning, structural calculation, etc.) for technical acquisition.
Program of course	<p>One-year Master's course: Acquisition of the basic knowledge of structural design, and training for primary design Students acquire techniques necessary for performing architectural structure design operations through seminars on reinforced concrete structures and steel structures. 1st class: Structural Planning and Structural Design, and Reinforced Concrete Structures 2nd class: Materials and Allowable Stress Intensity 3rd and 4th classes: Loads, and Calculation of Stress and Deformation 5th – 8th classes: Calculation of Elements, and Steel Structure 9th class: Materials and Allowable Stress Intensity 10th and 11th classes: Loads, and Calculation of Stress and Deformation 12th – 15th classes: Calculation of Elements</p> <p>One-year Doctor's course (8 seminars): Training for secondary design Students acquire techniques necessary for performing architectural structure design operations through seminars on the secondary design of reinforced concrete structures or steel structures 1st class: Outline of Secondary Design 2nd class: Examination of Story Drift 3rd class: Examination of Modulus of Rigidity and Eccentricity Ratio 4th – 8th classes: Examination of Horizontal Load Bearing Capacity</p>
Learning out of the school hour	
Performance criteria	Evaluation is based on assignment reports.
Texts	
Reference literature	(1) Architectural Institute of Japan, "Standards of and Commentary on Calculation of Reinforced Concrete Structures," AIJ, 2010 (2) Architectural Institute of Japan, "Standards of Steel Structure Design – Allowable Stress Intensity Design Technique," AIJ, 2005 Others
Course requirements	
Precautions and requirements	
Active learning	Presentation
Office hours and contact information	

Remarks	
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Year of course	Academic year 2022
Subject	Studio for Architecture Design
Supervising faculty member	Masayuki Harada, Gyuyoung Yoon, Tai Satoh
Number of credits	4 credits
Course level / day of week / period	
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Seminar
Objective/ goal of course	This course aims to allow students to acquire knowledge and techniques necessary for performing architectural equipment design operations in the internship (Off-campus Internship Projects A and B) through practical seminars on architectural equipment design from basics to execution design. Students also aim to enhance their equipment designing technique acquired through the internship.
Key words	Design of HVAC system, Value Engineering
Related diploma policy	
Attainment goal	Students aim to be able to apply the practical technique to design work from the basics to execution design of architectural equipment design.
Grade evaluation criteria	
Outline of course	In the Master's course, students perform the basic designing of an air-conditioning system. Students also set the management goal for Life Cycle Energy Management (LCEM) from the viewpoint of LCEM, and examine the introduction of energy-saving techniques to attain that goal. By the first half of the Doctor's course, students prepare the design specification diagram of an air-conditioning system. In the second half of the Doctor's course, students select the practical or near-practical design project of the air-conditioning system as an assignment, and conduct an examination related to the LCEM promotion and value engineering (VE).
Program of course	Master's course: < Assignment Setting and Design Concept Planning > 1st week: Selection of Equipment Design Target Building, and Setting of Design Assignment 2nd week: Plotting of Design Concept, etc. of Design Target Building, and Management Index Setting for PAL/CEC and LCEM < Basic Design > 3rd week: Heat Load Calculation, and Tool Usage 1 4th week: Heat Load Calculation, and Tool Usage 2 5th week: Basic Design of Air Conditioning Systems (Primary Side) 6th week: Basic Design of Air Conditioning Systems (Secondary Side) < Examination of Energy Saving Techniques for Air Conditioning Primary Systems > 7th week: Utilization of System Simulation 8th week: Optimization of Heat Source Capacity Selection, and Energy Saving 9th week: Streamlining of System Control, and Energy Saving 10th week: Examination of Introduction for Heat Storage System and Cogeneration System 11th week: Examination of Introduction for Natural and Untapped Energy < Examination of Energy Saving Techniques for Air Conditioning Secondary Systems > 12th week: Examination of Load Reduction Technique 13th week: Air Drift Analysis and Tool Utilization 14th week: Examination of Air Conditioning Efficiency Improvement Technique < LCEM Management Indexes > 15th week: Calculation and Evaluation of LCEM Management Indexes Doctor's course: < Preparation of Air Conditioning System Design Specification Diagram > 1st week: Preparation of Air Conditioning System Design Calculation Sheet 2nd week: Drawing of Pipe and Duct System Diagrams for Air Conditioning System 3rd week: Review of Design < Promotion of Design Project > 4th week: Outline of Designing Project, and Explanation of Schedule 5th week: Agenda, Case Extraction and Case Study 1 6th week: Agenda, Case Extraction and Case Study 2 7th week: Agenda, Case Extraction and Case Study 3 8th week: Overall Evaluation of Promotion Project
Learning out of the school hour	For items that were incompletely understood during the exercise, try repeatedly to make clear for them.
Performance criteria	Evaluation of design work is based on basic design of air conditioning system (70%) and design project promotion (30%).
Texts	Information materials are distributed during each seminar.
Reference literature	Association for the Study of Architectural Equipment Studies Textbooks (editor and author), "Technical Guidelines for Energy Saving for Housing/Non-housing Buildings and Equipment," newly revised, 2nd edition, Shokokusha Publishing "Handbook of Architectural Environment and Equipment," Ohmsha Society of Heating, Air-Conditioning and Sanitary Engineers of Japan, "Corpus of Architectural Equipment, and Office," Ohmsha Society of Heating, Air-Conditioning and Sanitary Engineers of Japan, "Practical Knowledge Air-Conditioning Equipment Operations," Ohmsha
Course requirements	
Precautions and requirements	Students are requested to attend the seminar on Advanced Study of Building Equipment Planning, as well.
Active learning	Making a presentation, after investigation and HVAC system design of real existing building
Office hours and contact information	Masayuki Harada: Master's course ... Wednesday, 9:00 – 12:00 Doctor's course ... Friday, 13:00 – 16:00 Yoon Gyuyoung: Master's course ... Monday, 9:00 – 12:00 Doctor's course ... Friday, 9:00 – 12:00

Remarks	
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Year of course	Academic year 2022
Subject	Studio for Urban Design
Supervising faculty member	Yasuyuki Ito, Satoru Kaku, Takeshi Mukaiguchi, Akihiko Ono
Number of credits	4 credits
Course level / day of week / period	
Language	Japanese (English also acceptable)
Subtitle	
Mode of class	Seminar
Objective/ goal of course	In accordance with the theme set by each supervising faculty member, this course aims to allow students to attend seminars on applied design for various assignments of urban planning and regional planning. Theme area set by each supervising faculty member: Satoru Kaku: Seminars on Applied Design for Regional Planning and Urban Redevelopment Akihiko Ono: Seminars on Applied Design for Landscape Designs Yasuyuki Ito, Takeshi Mukaiguchi: Seminars on Applied Design for Urban Planning
Key words	
Related diploma policy	
Attainment goal	Concerning various assignments related to the design of cities, regions and landscapes, students aim to acquire the ability to make a proposal based on various investigations.
Grade evaluation criteria	
Outline of course	Master's course: Each student selects one theme area set by each supervising faculty member, and undertakes the set assignment according to the following outline: Stage 1: Investigation Stage 2: Setting of Basic Concept Stage 3: Formation of Master Plan, etc. Stage 4: Editing of Proposal for Presentation Doctor's course: Each student selects one theme area set by each supervising faculty member, and undertakes the set assignment according to the following outline: Stage 1: Investigation Stage 2: Setting of Basic Concept Stage 3: Formation of Master Plan, etc. Stage 4: Edition of Proposal for Presentation Both the Master's course and the Doctor's course are guided by the same supervising faculty member.
Program of course	One-year Master's course: Training in planning and conception of urban design and regional design Students define the intent of urban design and regional design, and learn how to consider various problem solutions and constraint conditions, from the overall concept of urban planning and regional planning, to planning and management methods One-year Doctor's course: Training in the basic design stage of urban design and regional design Students learn how to realize safe and comfortable cities and regions based on the investigation contents at the planning and conceptual stage.
Learning out of the school hour	Basic knowledges for architectural design which is described in some references such as about the architectural history (Japan and Western architectural history), structure engineering(structural dynamics), material characteristics (material engineering) and equipment engineering (air conditioning sanitation equipment science) should be finished learning already.
Performance criteria	Evaluation is based on submitted proposals (100% in principle).
Texts	Texts are specified during the course.
Reference literature	Overview statements, including overviews of urban planning, regional planning, landscapes, etc.
Course requirements	
Precautions and requirements	
Active learning	
Office hours and contact information	
Remarks	For foreign students, check the Japanese proficiency by the faculty in charge of this lecture before registration.