

Graduate School
2019-2020 LIST OF ACADEMIC COURSES IN ENGLISH
FOR INTERNATIONAL/JAPANESE STUDENTS

FY: full year
fs: first semester / ss: second semester

Japanese Title	English Title	Lecturer	Duration	Day	Period	Credits	Level	Page Number
科目名	英文科目名	担当教員	開講期間	曜日	時限	単位	配当年次	ページ番号
法学研究科 / GRADUATE SCHOOL OF LAW								
特殊講義Ⅱ	Comparative Contract Law	KITAI, Tatsuya	ss	Mon	3	2	1,2	1
特殊講義Ⅱ	Comparative Civil Procedure	INOMATA, Takashi	ss	Tue	6	2	1,2	2
特殊講義Ⅱ	Introduction to Japanese Law	KITAI, Tatsuya	fs	Thu	3	2	1,2	3
特殊講義Ⅱ	Comparative Constitutional Law	KITAI, Tatsuya	ss	Thu	3	2	1,2	4
特殊講義Ⅱ	International Law From Japanese Perspectives	MIYANO, Hirokazu	fs	Mon	5	2	1,2	5
特殊講義Ⅱ	Comparative Criminal Law and Criminal Procedure (A)	NAKANOME, Yoshinori	fs	Mon	3	2	1,2	7
特殊講義Ⅱ	Comparative Criminal Law and Criminal Procedure (B)	NAKANOME, Yoshinori	ss	Tue	2	2	1,2	9
特殊講義Ⅱ	Contemporary Issues in Japanese Law	USHIJIMA, Hitoshi	fs	Wed	3	2	1,2	11
特殊講義Ⅱ	Comparative Corporate Law	ITO Hisaei	ss	Tue	4	2	1,2	13
特殊講義Ⅱ	Comparative Privacy and Data Protection Law in a Globalized World	USHIJIMA, Hitoshi	ss	Fri	2	2	1,2	14
特殊講義Ⅱ	Japanese Competition Law & Policy in Global Context	NISHIMURA Nobufumi	fs	Mon	4	2	1,2	16
JAPANESE LAW 1 (A)	JAPANESE LAW 1 (A)	Rosen, Daniel	fs	Thu	4	2	1,2	18
JAPANESE LAW 2 (A)	JAPANESE LAW 2 (A)	Rosen, Daniel	ss	Thu	4	2	1,2	19
特殊講義Ⅱ	Environmental Law and Policy in Japan	USHIJIMA, Hitoshi	fs	Wed	4	2	1,2	20
特殊講義Ⅱ	Administrative Law and Regulatory Policy	USHIJIMA, Hitoshi	fs	Wed	5	2	1,2	22
特殊講義Ⅱ	Environmental Law and Regulation	USHIJIMA, Hitoshi	ss	Wed	5	2	1,2	23
特殊講義Ⅱ	International Human Rights Law in Japan	KITAMURA Yasuzo	ss	Fri	1	2	1,2	24
特殊講義Ⅱ	International Law	NISHIUMI Maki	ss	Mon	3	2	1,2	25
特殊講義Ⅱ	International Law issues from Japanese and Korean Perspectives	NISHIUMI Maki	fs	Mon	3	2	1,2	26
外国法研究1 (C)	Legal Systems in Major Foreign Countries 1 (C)	Rosen, Daniel	fs	Thu	2	2	1,2	27
外国法研究2 (C)	Legal Systems in Major Foreign Countries 2 (C)	Rosen, Daniel	ss	Thu	2	2	1,2	28
行政学特講1 (C) (Advanced Introduction to Public Management)	Political Theory 1 (C)	KUDO, Hiroko	fs	Mon	6	2	1,2	29
行政学特講2 (C) (Advanced Introduction to Public Management)	Political Theory 2 (C)	KUDO, Hiroko	ss	Mon	6	2	1,2	31
行政学演習1 (C) (Public Governance)	Political Theory 1 (C) (Seminar)	KUDO, Hiroko	fs	Tue	3	2	1,2	32
行政学演習2 (C) (Public Governance)	Political Theory 2 (C) (Seminar)	KUDO, Hiroko	ss	Tue	3	2	1,2	33
商学研究科 / GRADUATE SCHOOL OF COMMERCE								
進化経済学 I	Evolutionary Economics I	ARUKA, Yuji	ss	Tue	3	2	1,2	35
金融論 I	Introduction to macroeconomics and monetary economics	FUJIKI, Hiroshi	fs	Thu	2	2	1,2	36
金融論 II	Introduction to banking and finance	ONO, Arito	ss	Tue	1	2	1,2	37
企業金融論 I	Fundamentals of Corporate Finance	KOIBUCHI, Satoshi	ss	Mon	2	2	1,2	38
応用経済学 I	Applied Economics I	EGUCHI, Kyota	fs	Wed	2	2	1,2	39
特殊講義 (7)	Modern Financial Macroeconomics	TAKAHASHI, Ichiro	ss	Mon	1	2	1,2	40
Microeconomics I	Microeconomics I	ARUKA, Yuji	fs	Tue	3	2	1,2	41
Social Research I	Social Research I	TAKEISHI, Chikako	fs	Fri	5	2	1,2	42
Coping with Crises in Complex Socio-Economic Systems Workshop	Coping with Crises in Complex Socio-Economic Systems Workshop	ARUKA, Yuji	ss	Tue	4	2	1,2	43
Financial dealings and the market economy (1)	Financial dealings and the market economy (1)	MORIYA, Hiroyuki				2		44
Financial dealings and the market economy (2)	Financial dealings and the market economy (2)	MORIYA, Hiroyuki				2		45
Modern Japanese History	Modern Japanese History	MASSARELLA, Derek Peter	ss	Wed	2	2	1,2	46
Artificial Intelligent Economics	Artificial Intelligent Economics	ARUKA, Yuji	fs	Thu	4	2	1,2	47
Artificial Intelligent Market Experiment	Artificial Intelligent Market Experiment	ARUKA, Yuji	fs	Thu	5	2	1,2	48
Service Sciences and the Related Economic Matters	Service Sciences and the Related Economic Matters	ARUKA, Yuji	fs	Tue	4	2	1,2	50
文学研究科 / GRADUATE SCHOOL OF LETTERS								
COMMUNITY PSYCHOLOGY	COMMUNITY PSYCHOLOGY	SASAO, Toshiaki				2		51
ACADEMIC WRITING AND PRESENTATION SKILLS IN PSYCHOLOGY	ACADEMIC WRITING AND PRESENTATION SKILLS IN PSYCHOLOGY	SASAO, Toshiaki				2		52
英語表現演習 I	English Scholarly Writing I	John Matthews	fs	Thu	1	2	1,2	54
英語学研究 (音声学・音韻論Ⅱ) A	Phonetics and Phonology II A	John Matthews	fs	Wed	3	2	1,2	55
英語学研究 (音声学・音韻論Ⅱ) B	Phonetics and Phonology II B	John Matthews	ss	Wed	3	2	1,2	56
総合政策研究科 / GRADUATE SCHOOL OF POLICY STUDIES								
英語プレゼンテーションの技法	Academic Presentations in English	LEE, Rika	ss	Sat	2	2	1,2	57
国際関係と外交	Advanced Theories of International Relations	IZUMIKAWA, Yasuhiro	fs	Fri	4	2	1,2	58
理工学研究科 / GRADUATE SCHOOL OF SCIENCE AND ENGINEERING								
連続体力学	Continuum Mechanics	Muneo Hori	fs	Tue	1	2	1,2	59
応用認知脳科学	Applied cognitive neuroscience	Ippelita Dan, Kyutoku Yasushi	fs	Mon	5	2	1,2	60
応用心理学	Applied Psychology	Ippelita Dan, Kyutoku Yasushi	ss	Mon	2	2	1,2	61
計算流体力学	Computational Fluid Mechanics	Kazuo Kohiyama	ss	Thu	1	2	1,2	62
洪水流の水理と河道設計	Flood Hydraulics and Channel Design	Kousuke Tabata	fs	Thu	3	2	1,2	63
河川管理論	Engineering Management of River Basin	Takashi Yuasa	ss	Wed	2	2	1,2	64
沿岸防災学	Coastal Disaster Management	Taro Arikawa	ss	Mon	6	2	1,2	65
応用水環境システム工学	Planning and Engineering of Drinking and Wastewater System	Hiroshi Yamamura	fs	Mon	4	2	1,2	66

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環境・エネルギーシステム	Environmental and Energy Systems	Yukihito Ochiai, Keiichi Sakaguchi, Yasuo Suzuki, Yoshizou Suzuki, Hiroyuki Hatano, Kei Matsuoka	fs	Thu	5	2	1,2	67
環境情報処理・リモートセンシング	Environmental Information Processing and Remote Sensing	Tomoo Fukuda, Hirokazu Muraki	fs	Wed	6	2	1,2	69
応用空間情報科学	Advanced Topics in Spatial Information Science	Ikuho Yamada	fs	Tue	3	2	1,2	70
都市人間環境プロジェクト第二	Topics in Advanced Organic Chemistry	Tomohiro Shishime, Masayoshi Tanishita, Izumi Washitani, Hotes Stefan	ss*	TBA	TBA	2	1,2	72
Academic Writing	Academic Writing	Nishikawa, Mary Yolanda	fs	Thu	4	2	1,2	73
有機金属化学特論第一	Advanced Organometallic Chemistry I	Youichi Ishii	ss	Tue	2	2	1,2	75
先端有機化学特論	Topics in Advanced Organic Chemistry	Shing Tony Kung Ming	ss	Tue	1	2	1,2	76
応用化学特別講義第8	Special Lecture on Applied Chemistry VIII	S.Moorthy Babu	fs*	TBA	TBA	1	1,2	77
応用化学特別講義第9	Special Lecture on Applied Chemistry IX	S.Moorthy Babu	fs*	TBA	TBA	1	1,2	78
理工学英語セミナー I	English Seminar in Science and Engineering I	ISHIDA Yasuhiro	fy	TBA	TBA	1	1,2	-
理工学英語セミナー II	English Seminar in Science and Engineering II	ISHIDA Yasuhiro	fy	TBA	TBA	1	1,2	-

Please note:

1. Courses in Graduate school of Law, Economics, Commerce, Letters and Policy Studies are given at the Tama Campus. Courses in Graduate school of Science and Engineering are given at the Korokuen Campus.
2. Courses are taken together with Japanese students and degree-seeking international students.
3. After the courses actually start, some courses might be given in Japanese at the request of attendants.
4. Academic courses offered by faculties other than the one that students are registered may be taken upon approval of the faculties concerned and according to the regulations of the faculties.
5. Course schedule and Room could be changed, checking the newest schedule would be recommended.

科目名: 特殊講義Ⅱ(Comparative Contract Law)

担当教員: 北井 辰弥

履修年度: 2019 学期: 後期

開講曜日時限: 月3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Students are recommended to register other courses on Japanese law in English.

授業の概要

For the benefit of students from the common law system and those new to Japanese law, the following may be worth noting. The authors of the Japanese Civil Code studied law in England, France and Germany, ultimately, the Pandekten system of the German Civil Code was adopted. As such, the principles of contract law are found throughout the various sections of the Japanese Civil Code rather than in any particular self contained section. Thus, traditionally, students of Japanese law are taught the principles of Japanese contract law (as part of their studies of the Japanese Civil Code) in the same order as such principles appear within the Japanese Civil Code, that is chronologically and not by topic as one would expect with a common law approach. However, on this course, for greater ease of comparison of contract law principles as found in the common law and the Japanese law systems, we shall approach the subject by taking the topic headings from the teachings of the common law system of contract law and then cross refer back to the Japanese Civil Code.

科目目的・到達目標

The main aim of the course is to introduce to students basic principles of Japanese law from comparative common law perspective. At the end of the course, students are expected to be able to demonstrate an understanding of the key characteristics of Japan

授業計画

1. Introduction to the Japanese Civil Code
2. Legal consciousness of contract in Japan.
3. Formation of contractual agreement: offer and acceptance
4. "Culpa in contrahendo" in Japan
5. Intention to create legal relationship: domestic agreements
6. Public policy
7. Vitiating factors affecting contracts: mistake
8. Vitiating factors affecting contracts: misrepresentation
9. Terms of the contract
10. Regulation of consumer contracts in Japan (1)
11. Regulation of consumer contracts in Japan (2)
12. Remedies for breach of contract: Article 416 of the Japanese Civil Code
13. Discharge of a contract
14. Student presentation

成績評価方法

Assessment will be based on class participation(20%), a class presentation(30%) and a final paper(50%).

テキスト・参考文献等

Readings and handouts will be distributed.

授業時間外の学習

Students should always review the lessons and, if specifically requested, also prepare for them.

その他特記事項

科目名: 特殊講義Ⅱ (Comparative Civil Procedure)

担当教員: 猪股 孝史、牛嶋 仁、大村 雅彦、萩澤 達彦、本間 佳子

履修年度: 2019 学期: 後期

開講曜日時限: 火6

配当年次: 1年次配当

参考URL: None

履修条件・関連科目等

None

授業の概要

This course deals with the main framework of the civil procedure and some other civil proceedings of Japan as well as a few related topics. Key concepts and legal cases in these fields will be discussed in English. We will focus on the basic ideas, statutes, rules, important precedents and cases, although the instructors will deal with some advanced topics, considering the response and interest of the students.

科目目的・到達目標

This course will lead students into the important principles of Japanese civil justice system from a comparative perspective. In addition, the instructors will also talk on the practical development of the system from various perspectives. At the end of the course, students will be expected to understand the basic characteristics of Japanese civil justice system and to be able to explain the differences between Japanese justice system and those of their home countries.

In particular, Master students are expected to explore inter-connection of issues, such as reflection of basic rules in specified topics, dealt in the course.

授業計画

In this course, following topics will be taught by the named instructors on the designated days respectively.

- 09/24 1. Introduction: Judicial System and Legal Profession (Inomata & Ushijima)
- 10/01 2. Basic Principles of Civil Procedure (Omura)
- 10/08 3. Burden of Proof (Omura)
- 10/15 4. Collection of Evidence and Proof-taking at the Trial (Hagizawa)
- 10/22 5. Res Judicata and Other Effects of Judgment (Hagizawa)
- 10/29 6. Multi-party Litigation and Collective Litigation for Consumers (Omura)
- 11/05 7. Implementing Creditor's Right: Civil Enforcement Proceeding (Hagizawa)
- 11/12 8. Bankruptcy (Insolvency) Proceeding (Hagizawa)
- 11/19 9. International Civil Procedure (Hagizawa)
- 11/26 10. Alternative Dispute Resolution (Hagizawa)
- 12/03 11. Suing Government: Litigation Challenging Governmental Decision-making (Ushijima)
- 12/10 12. International Assistance for Legislation of Civil Procedure Law in Cambodia (Homma)
- 12/17 13. Corporate Legal Department and its Vanguard (Kashiwagi)
- 01/07 14. Legal Ethics and Professional Responsibility (Homma)

成績評価方法

Each student will be requested to submit a term report, which is a short essay, on two of the 15 topics shown above.

Grading will be based on:

- (1) term report (60%), and
- (2) performance in the class (40%).

If you would be absent from the class more than 5 times or fail to submit a term report by the end of January, it will lead to "Fail" in grading.

テキスト・参考文献等

In place of a textbook, handouts of the lecture will be delivered in advance of each class. Lecture will be delivered based on those handouts.

Reference book for your self-teaching:

Carl F. Goodman, "Justice and Civil Procedure in Japan" (Oceana Publications Inc. 2004) can be recommended as one of the reliable books on Japanese Civil Procedure.

授業時間外の学習

Students are expected to read through the handouts delivered in advance to prepare for the class.

その他特記事項

Group discussion will be introduced in the class. Especially discussion between foreign students and Japanese students will be recommended to identify possible difference among various legal systems.

Contact to: omuram@tamacc.chuo-u.ac.jp (Professor M. Omura)

科目名: 特殊講義Ⅱ(Introduction to Japanese Law)

担当教員: 牛嶋 仁、木内 秀行、北井 辰弥、ソーントンピーター、西村 暢史

履修年度: 2019 学期: 前期

開講曜日時限: 木3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Students are expected to register other courses on Japanese law in English.

授業の概要

This is an introductory course to provide opportunities for lively discussion on various issues of Japanese law from comparative perspectives. Students will explore how law affects society and vice versa.

科目目的・到達目標

The aim of this course is to encourage students to understand basic principles of Japanese law from the historical, social and cultural perspectives. Students can expect understanding of key characteristics of Japanese law and their backgrounds.

In partic

授業計画

1. Why and how do we study Japanese law?
2. Modern history of Japanese law
3. Japanese legal system
4. Japanese In-house counsel
5. International legal aid by Japanese lawyer
6. Apology and law
7. Relationship between law and industrial policy (Introduction)
8. Relationship between law and industrial policy (Economic regulation)
9. Relationship between law and industrial policy (Social regulation)
10. Family registry law
11. Anti-discrimination laws
12. Criminal law
13. Criminal procedure
14. Student presentations

成績評価方法

Grading will be based on class participation(50%) and a paper that is required to submit at the end of the course (50%).

テキスト・参考文献等

Reading assignments and handouts will be distributed by each professor through this manaba system or at each class.

授業時間外の学習

Students are required to read materials in advance and contribute to in-class discussion.

その他特記事項

科目名: 特殊講義Ⅱ(Comparative Constitutional Law)

担当教員: 牛嶋 仁、北井 辰弥、佐藤 信行、ソーントン ピーター、宮下 紘

履修年度: 2019 学期: 後期

開講曜日時限: 木3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Students are recommended to register other courses on Japanese law in English.

授業の概要

This course focuses on the basics of the Japanese constitutional system including the governmental structure and human rights with comparative legal perspectives. Prospective participants of this course are requested to read and understand following remarks.

- (1) The course language is not Japanese but English.
- (2) Key concepts and cases will be taught through interactive class discussion.
- (3) This course is jointly taught by Prof. Tatsuya Kitai (Faculty of Law), Prof. Nobuyuki Sato (Law School), Prof. Peter Thornton (Faculty of Law) and Prof. Hitochi Ushijima (Faculty of Law).
- (4) This course is open to undergraduate students as well.

科目目的・到達目標

The main aim of the course is to describe the basic principles and concepts of Japanese constitutional law from a comparative and cultural perspective. At the end of the course, students are expected to do explain the key characteristics of the Japanese constitutional system.

授業計画

1. Introduction to the course
2. Introduction to the Japanese Constitutional Law: Brief history of the Constitution of Japan (CoJ)
3. Basic Structure of the CoJ (1): Sovereign
4. Basic Structure of the CoJ (2): Separation of Powers and Local Government
5. Basic Structure of the CoJ (3): Fundamental Human Rights
6. Specific theme and Cases (1): Equality Right
7. Specific theme and Cases (2): Voting Rights
8. Specific theme and Cases (3): Freedom of Expression
9. Specific theme and Cases (4): Mass Media and Freedom of Expression
10. Specific theme and Cases (5): Privacy Protection
11. Specific theme and Cases (6): Religions Right
12. Specific theme and Cases (7): Shintoinism
13. Specific theme and Cases (8): Administrative State and Human Rights
14. Specific theme and Cases (9): Society and State / Civil Code and Constitution

成績評価方法

Attendance 20%, presentation 30% and final essay 50%. Participants have to write and submit a short (at least single-spaced 2 pages) essay on the Constitution of Japan from a comparative point of legal studies in English.

テキスト・参考文献等

Text:
No textbook. Instead, handouts, materials and cases shall be delivered.
Reference:
Shigenori Matsui, "The Constitution of Japan: A Contextual Analysis (Constitutional Systems of the World)", Hart Publishing, 2011.

授業時間外の学習

Handouts, materials and cases shall be delivered at least 1 week prior to the class. Follow the instructions in the handouts.
If participants have questions out of class, they can reach Prof. Nobuyuki Sato via e-mail or his office at Ichigaya Campus (Rm. 1555).

その他特記事項

The official language of this course is English. This course is open to both undergraduate and graduate students, and both international and local students.

科目名: 特殊講義Ⅱ (International Law From Japanese Perspectives) 担当教員: 北村 泰三、小島 千枝、
竹内 雅俊、西海 真樹、
宮野 洋一、目賀田 周
一郎

履修年度: 2019 学期: 前期

開講曜日時限: 月5

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Minimum knowledge of basic international law desired but not obligatory.

授業の概要

The Course Structure:

The course will deal with some of the major international law problems concerning Japan:

Topics will include Japan's historical experience with international law, International Law in Japanese Diplomacy, International Human Rights Law in Japan, Japan's Territorial Disputes, International Law and culture, Law of the Sea, State (Non) Recognition, International Dispute Settlement and so forth. Key concepts and cases in these topics will be introduced and discussed in English. We will focus on the basic ideas, rules, important precedents and cases.

科目目的・到達目標

At the end of the course, students will be expected to understand the basic characteristics of Japanese international legal theory and practice.

授業計画

Course Outline

I. Introduction

01 Introduction to the course & A very short general introduction to international law
—“De-centralized” nature of International Law ~the basics of Jurisdiction <Miyano>

II International Law in Japanese Legal System - Part 1

02 Acceptance and Application of International Law <Megata>

①Relations between International Law and Domestic Law (General Theory)

②Effect of International Law in the Domestic Legal System(Case of Japan)

03 Application of International Law by Japanese Courts - Case Study <Nishiumi>

①in the Case of Treaty

②in the Case of Customary International Law

04 Implementation of the United Nations Convention on the Law of the Sea (UNCLOS) in Japan <Kojima>

III. International Law in Japanese Legal System - Part 2

05 Regulation on Navigation of Foreign Vessels in Japan <Kojima>

06 Diplomacy and its Democratic Control <Megata>

①Procedure of the conclusion of Treaties

②State recognition and Diplomatic Relations

07 The Protection of the Marine Environment and Japan <Kojima>

IV. Problems of International Human Rights Law in Japan

08 Implementation of international human rights treaties in Japan <Kitamura>

09 Major human rights issues in Japan from global perspectives <Kitamura>

10 Facts and defects on refugee recognition law in Japan <Kitamura>

V. Various Problems

11 Territorial Disputes between Japan and Her Neighbor Countries <Nishiumi>

12 International Responsibilities of Japanese Corporations <Takeuchi>

13 International Dispute Settlement: Comparative Case Studies <Miyano>

VI. Wrap up & responses

14 International Law from my country's (or my own) perspective:: Presentation by participants <Miyano>

成績評価方法

Grading will be based on class attendance(20%), active participation in class discussion(20%) and a final paper explained below(60%). Minimum attendance(80%) is required for getting any grading.

Participants must submit to professor, by the end of the semester, a paper of approximately 6000 English words, which is related to any topics included in the above parts of this book.

テキスト・参考文献等

Handout and/or reading materials will be provided for each topic.

For those who need a basic knowledge of international law in English:

Lowe, Vaughan, International Law: A very short Instruction (Oxford Univ.Pr., <Very short introductions ser.>, 2016) might be a handy and convenient Introduction.

References ; Iwasawa, Y., "Domestic Application of International Law", Collected Courses of the Hague Academy of International Law Vol.378, (2016) pp.9-262.; Yanagihara, M. "Significance of the History of the Law of Nations in Europe and East Asia", Collected Courses of the Hague Academy of International Law, Volume.371(2015); The Max Planck Encyclopedia of Public International Law(Oxford Univ.Pr.)

授業時間外の学習

Questions and request for instruction will be dealt with after each class.

その他特記事項

Official course language is English. This is an amalgamated class of undergraduate and graduate participants.

留学生のほかに日本人学生の受講も歓迎する。受講生の力量に応じて、授業内容やレベルを調整する。大学院生へも共同開講予定。
担当者は、目賀田、西海、宮野（法学部教授）、北村（法科大学院教授）のほか、小島千枝（武蔵野大学法学部准教授）、竹内雅俊（東洋学園大学グローバル・コミュニケーション学部専

科目名: 特殊講義Ⅱ(Comparative Criminal Law and Criminal Procedure)(A)

担当教員: 堤 和通、中野目 善則

履修年度: 2019 学期: 前期

開講曜日時限: 月3

配当年次: 1年次配当

参考URL: <URLs to be Referred to>

URLs may be suggested during the class as needs may arise.

履修条件・関連科目等

<Prerequisite Course>

Each participants should have understanding on administration of criminal justice, criminal law and procedure of your own country, which forms basis of comparison.

Constitutional course has close relationship with this course.

授業の概要

This course deals with a framework, rationales and structures of Japanese criminal law and criminal procedure. Characteristics of administration of criminal justice will be referred in comparison with other country. Main comparison will be between the legal system of Japan and that of the United States, in some case participants' countries' legal system will be compared with that of Japan.

In the field of administration of criminal justice, comparison between several countries and systems would illuminate striking difference between them, which would lead to further thinking on the underlying causes of the difference and features of administration of criminal justice.

科目目的・到達目標

The aim of this course is to have accurate and critical understanding of the basic concepts, principles and rules underlying Japanese criminal law and criminal justice system and to gain overview of its practice and recent trends through comparative perspectives.

授業計画

<Class Schedule and Contents>

- 1 Legal history of Japanese criminal procedure and transformation of constitutional law
2. Crimes and administration of criminal justice in Japan—statistical overview
3. Substantive criminal law – due process, requirements of punishment
4. Punishment
5. Actus reus, causation and mean rea
6. Arrest. post-arrest detention
7. Interrogation
8. principle of search and seizure
9. wiretapping and GPS tracking, and other investigative tools
10. cybercrime and its investigation
11. stop and question
12. the exclusionary rule
13. principle of trial
14. Comparison between Saiban-in trial, jury trial and Schaeffengericht system

・ There might be slight changes on some topics above

Additional notice to graduate students:

Graduate students participating in this course are expected to compare criminal Justice In Japan with that of their own country by putting main focus on her basic thinking and underlying rationale, which will give you deeper understanding of your own country as well as grasp of characteristics and background of criminal justice in Japan. The comparison would lead you to further thinking on sound administration of criminal justice in your own cultural settings

Graduate and Undergraduate classes are combined In this course.

成績評価方法

Grading and Evaluation

Evaluation will be based on your discussion and term report.

Your regular attendance and participation in discussion will be required.

Attendance and discussion will occupy 30% grading and evaluation.

Written term reports will be given higher weight.

Written term reports will occupy 70% of grading and evaluation.

The report will reflect your analytical thinking and organized thought.

Reports will be reviewed in terms of correct understanding of criminal justice and its administration in Japan and analysis of its rationale.

Comparative analysis of Japanese criminal procedure and that of your own country is recommended and especially in case of graduate students it is necessary.

Your report putting focus on "rationale" of each case laws and statutes should be given priority, rather than overview of the whole system, which would require much longer report or a book.

It is recommended to focus on a topic or topics talked in our class or related issues.

テキスト・参考文献等

<Textbooks and References>

Handouts and necessary materials will be distributed through MANABA or at our class.

"The Faces of Justice and State Authority: A Comparative Approach to the Legal Process" Revised ed. Edition, Kindle Edition, by Mirjan R. Damaska (Author) is one of recommended readings for you.

授業時間外の学習

<Work outside the Class>

Comparison between Japanese criminal law and criminal procedure and other western countries. Comparison of common law system and civil law system would be referred in the comparison, and further research is recommended in terms of the comparison.

"English" text of statutes and case laws translated into English is available, though there are exceptions.

その他特記事項

<Other Items to be Specified>

• The class will be conducted in English. But probably some legal terms that are specific to the Japanese system may be used in Japanese -- not with Kanji but with Alphabet.

科目名: 特殊講義Ⅱ(Comparative Criminal Law and Criminal Procedure)(B)

担当教員: 堤 和通、中野目 善則、
宮島 里史

履修年度: 2019 学期: 後期

開講曜日時限: 火2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

<Prerequisite Course>

Each participants should have understanding on administration of criminal justice, criminal law and procedure of your own country, which forms basis of comparison.

Constitutional course has close relationship with this course.

授業の概要

<Course Outline>

(1) Outline of the criminal procedure

This is an introductory course for the students to step into the law of Japanese criminal procedure. Japan has in a sense a unique background of law in general, i.e. it has always been influenced by foreign legal systems starting with Chinese one, then by European systems such as French and German, and then by Anglo-American ones after WWII. Against this historical background, some topics of interest will be picked up and discussed. I also want some discussion going on during the class.

(2) Outline of the administration of justice

This phase describes the current practice of the Japanese criminal justice, the practice of discretionary prosecution and the sentencing in particular, and the recent development of the criminal law, especially ones regarding the protection of a victim of crimes and the legislative measures coping with organized crime.

(3) Outline of the penal law

The penal law phase of this course introduces the students to the framework of the Japanese penal law. Japanese penal law has been under strong influence of the German law. The tripartite conception of criminality and the related way of reasoning and ideas such as conceptual analysis orientation and "substantive criminality." This course will present a comparative view of the framework of the Japanese penal law. Comparison will be made mainly with common law conception of criminality, one exemplified by the Model Penal Code in particular.

科目目的・到達目標

<Aims to be Accomplished>

(1) In this criminal procedure phase, students would be lead to familiarize themselves with the current criminal system and administration against the background written above and learn the basics of the Japanese justice system.

授業計画

<Class Schedule and Contents>

1st Week: Criminal Justice System of Japan in a historical perspective

2nd Week: Police Activities; Compulsory or Non-compulsory

3rd Week: Stop and Questioning; Reduced Substantive Cause or Diminished Privacy

4th Week: Arrest and Detention & Search and Seizure

5th Week: Interrogation of a Suspect, Right to Counsel

6th Week: Amending the Charge (Indictment) and Double Jeopardy

7th Week: Search for the Truth or Due Process?

8th Week: Administration of criminal justice: prosecutorial discretion and sentencing

9th Week: Legal response to organized crime including protection of victims of crime

10th Week: Conception of criminality (Tripartite structure and bipartite one)

11th Week: Subjective requirement and mens rea (recklessness in particular)

12th Week: Illegality and blameworthiness (or justifiability and excuse)

13th Week: Forms of criminality (principal, accomplice and organized crime)

14th Week: Summarization (and special presentations by the students if possible)

* The class schedule can be changed before the actual start of this class as this syllabus has to be turned in in January 2019, January, too early for the fall term class.

成績評価方法

<Grading and Evaluation>

The students are required to present an assignment for each phase of the course by the passage of two weeks after the end of each. Its topic and requirements will be announced by each instructor in class.

The reports occupy 70% of grading and evaluation.

Attendance and discussion in classes will occupy 30% of grading and evaluation.

The instructors will discuss and decide a student's grade.

テキスト・参考文献等

<Textbooks and References>

Students may be required to download some files from the Manaba site and read them prior to each class. Some mimeos may be handed out from time to time as is needed.

授業時間外の学習

<Work outside the Class>

It is a must to read the handouts and then students can bring in questions they come across so that we can discuss them in class. Each student may also work on some topic they choose that relates to this course outside

the class

その他特記事項

<Other Items to be Specified>

• The class will be conducted in English. But probably some legal terms that are specific to the Japanese system may be used in Japanese -- not with Kanji but with Alphabet.

科目名: 特殊講義Ⅱ(Contemporary Issues in Japanese Law)

担当教員: 一政 史織、岩田 太、牛
嶋 仁、小林 寛、庄司
克宏、寺田 麻佑、富井
幸雄、坂野 維子、リッ
テイビッド

履修年度: 2019 学期: 前期

開講曜日時限: 水3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

The course of "Environmental Law and Policy in Japan" is one of suggested courses.

授業の概要

This course deals with contemporary issues in Japanese law from comparative perspectives. After the first class giving overview of the course and Japanese law, each class consists of introductory lecture by a professor and discussion by all the students and professors. As professors in charge of this course are distinguished experts, with legal studies abroad, majoring in a wide variety of areas in law in different universities and law firms, both Japanese and international students can expect to enjoy examining different issues at each class such as constitutional, regulatory, environmental, energy, criminal, labor, and business laws from diversified perspectives.

International students are expected to explain the current situation in home countries on issues raised in each class, while Japanese students are expected to explain the social background of the same issues. At each class, students are required to read materials in advance. They are also required to make a short in-class presentation on their own mini research-topics at the end of the course that will be catalyzed to their own term paper after receiving some comments from professors.

At a class, Master students are generally required to respond to more sophisticated questions, while undergraduate students are generally required to respond to rather introductory questions.

科目目的・到達目標

Students will have opportunities to consider contemporary issues in Japanese Law that are shared by other legal systems as well. They will consider these issues by exchanging diversified ideas in a full-fledged manner. In particular, Master students are expected to explore the social background of these issues and their connection with a variety of legal areas.

授業計画

The following professors will be in charge of this course (Alphabetical Order for Adjunct Professors).

Hitoshi USHIJIMA (Professor, Chuo University)
Shiori ICHIMASA (Professor, Chuo University)
Masako BANNO (Attorney at Law)
Futoshi IWATA (Professor, Sophia University)
Hiroshi KOBAYASHI (Professor, Shinshu University)
David G. LITT (Professor, Keio University)
Katsuhiro SHOJI (Professor, Keio University)
Mayu TERADA (Associate Professor, International Christian University)
Yukio TOMI'I (Professor, Tokyo Metropolitan University)

The following schedule is subject to change.

- 1 (April 10)
Introduction: Contemporary Issues in Japanese Law (Ushijima)
- 2 (April 17)
Law and Society in Japan: Reform of Legal Education and Role of Lawyers (Ushijima)
- 3 (April 24)
Law and Culture in Japan: Animal Abuse (Ushijima)
- 4 (May 8)
Dispute Resolution in Japan: Why does Japan have the small number of court cases? (Ushijima)
- 5 (May 15)
Liability and Compensation of Marine Oil Spill by Ships (Kobayashi)
- 6 (May 22)
Energy Law and Policy (Litt)
- 7 (May 29)
Law and Development (Ushijima)
- 8 (June 5)
AI and the Law (Terada)
- 9 (June 12)
Japan's Trade Law and Policy: Japan-EU Economic Partnership Agreement (EPA) (Shoji)
- 10 (June 19)
Law & Medicine in Japan: End of Life Decisions and Patients' Wishes (Iwata)
- 11 (June 26)
Regulation on New Types of Investment (Banno)
- 12 (July 3)
Corporate Governance of Japanese Companies (Banno)
- 13 (July 10)
Immigration and Emigration in Japan (Ichimasa & Ushijima)
- 14 (July 17)
National Security in Japan (Tomi'i)

成績評価方法

Class Participation 70%, Essay 30%

テキスト・参考文献等

Course materials will be provided.

授業時間外の学習

Students are required to read materials in advance.

その他特記事項

This course is a part of Japanese Law courses in English.

科目名： 特殊講義Ⅱ(Comparative Corporate Law)**担当教員： 伊藤 壽英**

履修年度：2019 学期：後期

開講曜日時限： 火4

配当年次：1年次配当

参考URL：

履修条件・関連科目等

とくに履修前提要件はないが、授業は英語で実施される。

授業の概要

本講義は、日本の会社法における基本原則と近時の改正課題を扱う。とくに、コーポレート・ガバナンス構造の重要な違いについて、主として英米法・大陸法の比較を通じて検討する。個々の授業では、多数の事例とその分析、および論点の検討とその解決について取り上げることをとする。

科目目的・到達目標

本講義の目的は、履修者に対して、比較法的視点から、日本の会社法の基本原則を理解してもらうことである。本講義終了の時点で、履修者は、日本の会社法の特徴とコーポレート・ガバナンスに関する重要論点について理解したことを、表明できることを期待される。さらに、将来、国際的な領域で法実務に関わることを希望する履修者には、国を超えた法社会において、専門的な議論にも参画するように学修してもらいたい。

授業計画

- 第1回 企業形態
- 第2回 企業の理論とコーポレート・ガバナンス
- 第3回 会社の目的外の行為
- 第4回 閉鎖会社における株式譲渡
- 第5回 株主総会
- 第6回 取締役会と代表取締役
- 第7回 取締役の義務
- 第8回 取締役の競業避止義務
- 第9回 取締役の報酬
- 第10回 監査役
- 第11回 取締役の第三者に対する責任
- 第12回 株主代表訴訟
- 第13回 敵対的買収
- 第14回 総括：比較法的問題の検討と課題レポートの作成

成績評価方法

成績評価の基準は、平常点30%（出席およびクラスでの議論への参加）、期末課題レポート70%とする。本学の学生については、英語でのレポート課題を義務づける。留学生については、期末レポート課題を2題、課すものとする。正当な理由なく5回以上欠席した場合は、「E」判定とする。

テキスト・参考文献等

開講時に、教材を配付する。

授業時間外の学習

毎回授業前に、manabaに掲載される資料に目を通し、設問への解答を準備すること。

その他特記事項

科目名: 特殊講義Ⅱ(Comparative Privacy and Data Protection Law in a Globalized World)

担当教員: 牛嶋 仁、加藤 隆之

履修年度: 2019 学期: 後期

開講曜日時限: 金2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Japanese students will be screened before registration.

授業の概要

Due to the technological advancement which made it possible gross information storage and exchange, personal data protection has been attracting a great attention throughout the world for a couple of decades. Protection of privacy has a longer history than data protection, but the core idea remains unsettled. As a result, the relationship between them remains unclear, nevertheless they are overlapping with each other. This course will help students to understand the primary privacy value while learning up-to-date data protection topics.

In the first half of the course, we will examine cases and articles of Ireland, Japan, and the UK and relevant to privacy. By taking comparative approach, students should ponder and try to find the common and underlying value of privacy.

In the last half of the course, students will examine data protection legal systems and cases of the above three countries and discuss how data protection differs from privacy and how we can apply privacy theory to data protection issues.

At a class, Master students are generally required to respond to more sophisticated questions, while undergraduate students are generally required to respond to rather introductory questions.

科目目的・到達目標

The aim of this course is to explore the difference between the theories and mechanisms of privacy and those of data protection through a comparative law approach. Privacy has been recognized as one of the fundamental rights in most democratic societies, because personal data protection laws seem to have a common value, while the idea or content of privacy varies depending on culture, tradition, and customs.

After completing this course, students should be equipped to:

- Critically analyze the significance of privacy concept, privacy remedies, the limits of the remedies when conflicting with other interests such as freedom of expression through various cases in Ireland, Japan and the UK.
- Recognize the interface or estrangement between public and private law in the context of privacy law.
- Outline the legislation, principles, applications and cases of data protection law of the EU, Ireland, Japan and the UK.
- Identify the disparity between the underlying value of privacy and data protection and the necessity of taking distinctive approaches.

授業計画

Professor Hitoshi USHIJIMA will be in charge of the first class and Professor Takayuki KATO will be in charge of all the classes.

This class schedule is subject to change.

1 Introduction to privacy law: Legal history and non-legal history

2 Irish case 1

McGee v Attorney General [1974] IESC 284.

Gray v Minister for Justice [2007] IEHC 52.

3 Irish case 2

Herrity v Associated Newspapers [2008] IEHC 249.

Hickey & Anor v Sunday Newspapers Ltd [2010] IEHC 349.

Sullivan v Boyan & Ors [2013] IEHC 104.

4 England case 1

Campbell v MGN Limited [2004] UKHL 22.

Douglas v Hello! [2005] EWCA Civ 595.

McKennitt v Ash [2006] EWCA Civ 1714.

Murray v Big Pictures (UK) Ltd [2008] EWCA Civ 446.

Mosley v News Group Newspapers Ltd [2008] EWHC1777 (QB).

Weller and Ors v Associated Newspapers Ltd [2015] EWCA Civ 1176.

5 England case 2

Google Inc v Judith Vidal-Hall [2015] EWCA Civ 311.

6 Japanese case 1

Three significant novel cases disclosing privacy — “After a Banquet” case, “Reversal” case, “Swimming over a Stone” case

7 Japanese case 2

Disclosure of criminal record case

8 Japanese case 3

Waseda University case

9 Analyzing and Comparing privacy laws in the three countries

10 Personal data protection in EU

11 Personal data protection in Ireland and the UK

12 Personal data protection in Japan

13 Analyzing and Comparing personal data protection laws in the three countries

14 Intersection of privacy and personal data protection

成績評価方法

Assessment in this course is based on class participation (50%) and essays (50%). Class attendance and preparation for the class is strongly required. Students will be also required to submit essay at several times.

テキスト・参考文献等

To be notified before or during classes.

授業時間外の学習

Students are required to read materials in advance.

その他特記事項

This course is a part of Japanese Law courses in English.

科目名: 特殊講義Ⅱ (Japanese Competition Law & Policy in Global Context)

担当教員: 西村 暢史

履修年度: 2019 学期: 前期

開講曜日時限: 月4

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

1. This course will be taught in English and all of the course materials are in English. Foreign exchange students who have had opportunities for taking English-speaking classes before will be able to enroll this class.
2. The other students whose mother language is Japanese may enroll this class and be welcomed.

授業の概要

1. This class examines the various laws and policies and a number of the regulations, such as competition law, telecom law, energy law, and transportation law.
2. It also includes the comparative legal studies and analysis of the practices by the courts and authorities among the States.

科目目的・到達目標

1. The main objective of this course is to gain a good understanding of how government intervention has actually played out in various industries in Japan.
2. At the end of this course, participants are expected to explain the essential concepts of Japanese Competition Law and Sector-specific regulations, discuss the role of such law and regulations, and identify/evaluate the legal consequences of the certain business activities in global context.

授業計画

The contents of this course would be constituted as follows:

- (1)
Introductory questions & basic concepts of Competition Law & Policy
Is your Smartphone SIM-free? & what's wrong with the price below the cost?
Market, Competition, and Regulation (State)
- (2)
Competition Law (1): pricing, Part 1
Low price & price discrimination
- (3)
Competition Law (2): pricing, Part 2
RPM & price-fixing (cartels)
- (4)
Competition Law (3): conditional deal
Restrictive terms on trading (selective distribution)
- (5)
Competition Law (4): conditional deal
Tying & abuse of superior bargaining power
- (6)
Competition Law (5): refusal to deal
Boycott, etc.
- (7)
Competition Law (6): merger & acquisitions
Market & Theory of Harm
- (8)
Midterm exam in class: short essay (country reports)
- (9)
Competition Law (7): international dimensions
Cross-border transactions & Extraterritorial application of domestic law
- (10)
Economic Regulation (1): telecommunications
Competition in/for the mobile telecom markets
- (11)
Economic Regulation (2): aviation & taxi
De-regulation or Re-regulation
- (12)
Economic Regulation (3): electricity & gas
Re-structuring the whole energy industry
- (13)
TBA
- (14)
Japanese Competition Law & Policy in Global Context: Wrap Up Class

成績評価方法

Class attendance is required and your overall grade in the class will be calculated according to the following process:

- Midterm exam in class: 40%,
- Term-end examination (essay questions): 60%, and
- A fraction of in-class contribution (Classroom discussions)

テキスト・参考文献等

Materials for this course (treaty provisions, statutes, regulations, court and administrative decisions) are mainly available on the Internet (manaba) and the instructor will distribute the handouts as he thinks right. The following textbook highly recommended.

WAKUI, Masako, Antimonopoly Law: Competition Law and Policy in Japan (Second Edition)

Independently published (2018/10/24)

ISBN-10: 1729188699

ISBN-13: 978-1729188699

授業時間外の学習

The students need to read and analyze the materials in every class.

その他特記事項

1. Spring term class for 2 credit.
 2. There are no particular prerequisites for this course.
 3. The students shall inform their instructors of dates they will miss class due to an excused absence prior to the date of that anticipated absence.
 4. The students are expected to attend all classes and be on time and turn in assignments when they are due.
 5. The students are to read the assigned materials carefully before the classes and to prepare for the discussion about the cases or topics in those materials.
-

科目名: JAPANESE LAW 1 (A)

担当教員: ローゼン ダニエル ア
ン

履修年度: 2019 学期: 前期

開講曜日時限: 木4

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

No particular evidence of English ability (for example, TOEFL or TOEIC) is required. However, students should be willing to devote the time and energy to studying materials primarily written in English.

授業の概要

The content will depend on the needs and interests of the students who enroll. In past years, we have considered topics such as:

- *Legal and administrative regulation of the Tsukiji fish market
- *Issues in family law, including Japan's entry to the international convention on child abduction
- *Competing Japanese and Chinese legal arguments on control of the oceans and access to resources
- *Interpretation of the Constitution and the role of courts
- *Protection (or lack of protection) for whistleblowers
- *Corporate culture and law

科目目的・到達目標

Chuo has a rich array of courses in the law of Japan taught from the perspective of Japanese lawyers and scholars. This course offers an outside perspective. The reading will involve books and articles about Japan written by people from other countries. It is primarily intended for students from other countries, but it also is open to Japanese students interested in considering a different point of view.

Enrollment is open to graduate students and advanced undergraduate students.

Graduate students will be expected to engage in some research on a topic, to be decided upon consultation with the instructor.

授業計画

Weekly reading assignments will be made, and we will discuss the content during the class hours. Plenty of opportunity will be provided for students to test out their ideas of law in Japan, based on what they have experienced. The following outline is a projection. However, it is subject to change both as to content and the amount of time devoted to each topic.

1. Introduction
2. Japanese law's place within legal systems of the world
3. Pre-modern period
4. Pre-modern period (continued)
5. Search for a "modern" system in Meiji period
6. Search for a "modern" system in Meiji period (continued)
7. Meiji Constitution
8. Meiji Constitution (continued)
9. Postwar drafting of current Constitution
10. Postwar Constitution
11. Article 9 (renunciation of belligerency and armed forces)
12. Erosion of Article 9
13. Individual rights
14. Individual rights (continued)

成績評価方法

Evaluation will be based on class discussion (50%) and a final written report in English (50%). The report topic will be announced several weeks before the due date.

Graduate students will be expected to produce a final paper that is longer and in greater depth than that required of undergraduates. Their class participation will also be judged by a higher standard.

テキスト・参考文献等

The material we will study will be selected in order to meet the needs and interests of those students who actually enroll.

授業時間外の学習

Diligently read and consider the assignments in order to engage in fruitful class discussion.

その他特記事項

科目名: JAPANESE LAW 2(A)

担当教員: ローゼン ダニエル ア
ラ
ン

履修年度: 2019 学期: 後期

開講曜日時限: 木4

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

No particular evidence of English ability (for example, TOEFL or TOEIC) is required. However, students should be willing to devote the time and energy to studying materials primarily written in English.

授業の概要

The content will depend on the needs and interests of the students who enroll. In past years, we have considered topics such as:

- *Legal and administrative regulation of the Tsukiji fish market
- *Issues in family law, including Japan's entry to the international convention on child abduction
- *Competing Japanese and Chinese legal arguments on control of the oceans and access to resources
- *Interpretation of the Constitution and the role of courts
- *Protection (or lack of protection) for whistleblowers
- *Corporate culture and law

科目目的・到達目標

Chuo has a rich array of courses in the law of Japan taught from the perspective of Japanese lawyers and scholars. This course offers an outside perspective. The reading will involve books and articles about Japan written by people from other countries. It is primarily intended for students from other countries, but it also is open to Japanese students interested in considering a different point of view.

Enrollment is open to graduate students and advanced undergraduate students.

Graduate students will be expected to engage in some research on a topic, to be decided upon consultation with the instructor.

授業計画

Weekly reading assignments will be made, and we will discuss the content during the class hours. Plenty of opportunity will be provided for students to test out their ideas of law in Japan, based on what they have experienced. What follows is general projection. However, it is subject to change. The second semester is intended to highlight recent issues. So, we will let current events guide us both as to content and the amount of time devoted to the topics.

1. Introduction
2. Recollection of the Spring Semester: Japanese Law up to the postwar Constitution
3. Marriage and the family
4. Marriage and the family (continued)
5. Status of people from other countries
6. Status of people from other countries (continued)
7. Labor law issues
8. Labor law issues (continued)
9. Corporate governance
10. Corporate governance (continued)
11. Courts and judges
12. Lay judge system
13. Legal education
14. Legal education (continued)

成績評価方法

Evaluation will be based on class discussion (50%) and a final written report in English (50%). The report topic will be announced several weeks before the due date.

Graduate students will be expected to produce a final paper that is longer and in greater depth than that required of undergraduates. Their class participation will also be judged by a higher standard.

テキスト・参考文献等

The material we will study will be selected in order to meet the needs and interests of those students who actually enroll.

授業時間外の学習

Diligently read and consider the assignments in order to engage in fruitful class discussion.

その他特記事項

科目名: 特殊講義Ⅱ(Environmental Law and Policy in Japan)**担当教員: 牛嶋 仁、小林 寛、寺田 麻佑、リット デイビッド**

履修年度: 2019 学期: 前期

開講曜日時限: 水4

配当年次: 1年次配当

参考URL: Ministry of Environment, Japan
<http://www.env.go.jp/en/index.html>**履修条件・関連科目等**

The course of "Contemporary Issues in Japanese Law" is one of suggested courses.

授業の概要

This course deals with environmental law and policy in Japan from comparative perspectives. In this course, students will gain overview of Japanese environmental law and major issues shared by other legal systems such as: history of Japan's environmental law, environmental legal system, environmental torts, environmental impact assessment, pollution prevention, waste disposal and material-cycled society, biodiversity preservation, energy policy, and Rio Principle 10. As environmental law is intertwined with policy, students will discuss policy choice and its relevancy supported by laws and regulations and their interpretation.

After the first class giving overview of the course and Japanese law, each class consists of introductory lecture by a professor and discussion by all the students and professors.

International students are expected to explain the current situation in home countries on issues raised in each class, while Japanese students are expected to explain the social background of the same issues. At each class, students are required to read materials in advance. They are also required to make a short in-class presentation on their own mini research-topics at the end of the course that will be catalyzed to their own term paper after receiving some comments from professors.

At a class, Master students are generally required to respond to more sophisticated questions, while undergraduate students are generally required to respond to rather introductory questions.

科目目的・到達目標

Students will gain overview of Japanese environmental law and major issues shared by other legal systems. They will consider these major issues by exchanging diversified ideas in a full-fledged manner.

In particular, Master students are expected to explore the social background of these issues and their connection with a variety of legal and policy areas.

授業計画

The following professors will be in charge of the course.
Hitoshi USHIJIMA (Professor, Chuo University)
Hiroshi KOBAYASHI (Professor, Shinshu University)
David G. LITT (Professor, Keio University)
Mayu TERADA (Associate Professor, International Christian University)

The following schedule is subject to change.
Professor Ushijima will be in charge unless otherwise noted.

- 1 (April 10)
Introduction: Environmental Law and Policy in Japan
- 2 (April 17)
Japan's Experiences: Minamata, Mercury Poisoning
- 3 (April 24)
Japan's experiences: Fukushima, Human Error v. Act of God
- 4 (May 8)
Sustainable Development and Rio Principle X
- 5 (May 15)
Renewable Energy (Kobayashi)
- 6 (May 22)
Energy Regulation (Litt)
- 7 (May 29)
Overview of Japanese Environmental Law
- 8 (June 5)
Environmental Impact Assessment
- 9 (June 12)
Regulatory Governance in Environmental Law (Terada)
- 10 (June 19)
Environmental Justice: Waste Disposal Site Setting
- 11 (June 26)
Transnational Chemical Regulation
- 12 (July 3)
Cultural Heritage Protection
- 13 (July 10)
In-Class Presentation (1)
- 14 (July 17)
In-Class Presentation (2)

成績評価方法

Class Participation 70%, Essay 30%

テキスト・参考文献等

Course materials will be provided.

授業時間外の学習

Students are required to read materials in advance.

その他特記事項

科目名: 特殊講義Ⅱ(Administrative Law and Regulatory Policy)

担当教員: 牛嶋 仁

履修年度: 2019 学期: 前期

開講曜日時限: 水5

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

"Environmental Law and Regulation" is a suggested course.

授業の概要

This course deals with Japanese administrative law from comparative perspectives. In this course, students will gain overview of Japanese administrative law and major issues shared by other legal systems such as: rule of law, rules and regulations, administrative procedure and Administrative Guidance, administrative enforcement, judicial review of administrative action, Freedom of Information, citizen's suits and local governments, regulatory reform, and governmental torts. As administrative law is intertwined with policy, students will discuss policy choice and its relevancy supported by laws and regulations and their interpretation.

After the first class giving overview of the course and Japanese administrative law, each class consists of introductory lecture by a professor and discussion by all the students and professor.

International students are expected to explain the current situation in home countries on issues raised in each class, while Japanese students are expected to explain the social background of the same issues. At each class, students are required to read materials in advance and participate in discussion. They are also required to make a short in-class presentation on their own research topics at the end of the course that will be catalyzed to their own term paper after receiving some comments from a professor.

科目目的・到達目標

Students will gain overview of Japanese administrative law and major issues shared by other legal systems. They will consider these major issues by exchanging diversified ideas in a full-fledged manner.

授業計画

The following schedule is subject to change.

1. Introduction: Japanese Administrative Law in History
2. Introduction: Japanese Administrative Law from a Comparative Perspective
3. How does Administrative Law relate to Regulatory Policy?
4. Why does Japan have the limited number of Administrative Litigation?
5. (Non)Delegation Doctrine
6. Administrative or Judicial Enforcement
7. Administrative Procedure and Guidance
8. Announcement of Adverse Information
9. Standing
10. Judicial Review of Administrative Action
11. Governmental Torts
12. Japan's FOIA
13. Citizen's Suits Challenging Local Government
14. In-Class Presentation

成績評価方法

Class Participation 70%, Essay 30%

テキスト・参考文献等

Course materials will be provided.

授業時間外の学習

Students are required to read materials in advance.

その他特記事項

科目名: 特殊講義Ⅱ(Environmental Law and Regulation)

担当教員: 牛嶋 仁

履修年度: 2019 学期: 後期

開講曜日時限: 水5

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

"Administrative Law and Regulation" is a suggested course.

授業の概要

This course deals with Japanese environmental law from comparative perspectives. In this course, students will gain overview of Japanese environmental law and major issues shared by other legal systems such as: history of Japan's environmental law, environmental legal system, environmental impact assessment, pollution prevention, waste disposal and material-cycled society, biodiversity preservation, and Rio Principle X. As environmental law is intertwined with policy, students will discuss policy choice and its relevancy supported by laws and regulations and their interpretation.

After the first class giving overview of the course and Japanese environmental law, each class consists of introductory lecture by a professor and discussion by all the students and professor.

International students are expected to explain the current situation in home countries on issues raised in each class, while Japanese students are expected to explain the social background of the same issues. At each class, students are required to read materials in advance and participate in discussion. They are also required to make a short in-class presentation on their own research topics at the end of the course that will be catalyzed to their own term paper after receiving some comments from a professor.

科目目的・到達目標

Students will gain overview of Japanese environmental law and major issues shared by other legal systems. They will consider these major issues by exchanging diversified ideas in a full-fledged manner.

授業計画

The following schedule is subject to change.

1. Introduction: Environmental Law and Policy in Japan
2. Japan's Experiences: Minamata, Mercury Poisoning
3. Japan's experiences: Fukushima, Human Error v. Act of God
4. Principles of Environmental Law (1): PPP
5. Principles of Environmental Law (2): Precautionary Principle
6. Environmental Justice: Waste Disposal Site Setting
7. Environmental Impact Assessment
8. Sustainable Development and Rio Principle X
9. Tools of Environmental Policy: Hard Law v. Soft Law
10. Quest for Material-Cycled Society
11. Climate Change and Energy Policy
12. Eminent Domain and Cultural Heritage Protection
13. Preserving Biodiversity
14. In-Class Presentation

成績評価方法

Class Participation 70%, Essay 30%

テキスト・参考文献等

Course materials will be provided.

授業時間外の学習

Students are required to read materials in advance.

その他特記事項

科目名: 特殊講義Ⅱ (International Human Rights Law in Japan)

担当教員: 北村 泰三

履修年度: 2019 学期: 後期

開講曜日時限: 金1

配当年次: 1年次配当

参考URL: The United Nations Human Rights Centre

<http://www.ohchr.org/EN/Pages/Home.aspx>

The Council of Europe; European Court of Human Rights

<https://www.coe.int/en/web/human-rights-convention/home>

履修条件・関連科目等

interests in human rights law are required.

授業の概要

An introductory study of general framework of international human rights law, including the UN Charter system and major human rights treaties. The course provides guidance on some domestic human rights problems in Japan through analyzing the present status of implementation of human rights treaties in Japan basically from critical standpoints. The topics include the death penalty problem, refugee and asylum, women's rights, prisoner's rights, and status of foreign workers, etc.

科目目的・到達目標

The main object of this course is to understand how and why States (especially Japan) are obliged to respect and protect international human rights norms, arising from the international human rights treaties.

授業計画

Part 1 Basics of international human rights law

- (1) History of international human rights in global perspectives
- (2) UN Charter and global human rights
- (3) Human rights treaties adopted by the UN
- (4) European regional human rights protection system
- (5) Domestic status of human rights treaties in Japan

Part 2 Diversity and non-discrimination

- (1) Japanese culture and universal human rights in historical perspective
- (2) Nationality and human rights
- (3) Status of foreign workers

Part 3 Prisoner's rights in Japan

- (1) Death penalty under the human rights treaties
- (2) Death penalty in Japan
- (3) Other prisoners's rights

Part 4 Refugee problems in japan: some critical views

- (1) Concept of refugees under the 1951 Refugee Convention and its development
- (2) Problems on refugee recognition law and procedure in Japan
- (3) Future refugee and migrant policy in Japan

成績評価方法

Students are required to attend the class and submit an essay at the term end. Evaluation is based on the attendance (20%) and the end-term essay (80%).

テキスト・参考文献等

Texts of human rights treaties are provided by electric data
Related materials are available on the internet.
Reading materials are provided in the first class.

授業時間外の学習

Students are required to read some assignments.

その他特記事項

科目名: 特殊講義Ⅱ (International Law)

担当教員: 西海 真樹

履修年度: 2019 学期: 後期

開講曜日時限: 月3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Minimum knowledge of basic international law desired but not obligatory.

授業の概要

In this class, we read the following book:

ONUMA Yasuaki, International Law in a Transcivilizational World, Cambridge University Press, 2017.

With the resurgence of Asian nations such as China, India and Korea, lasting west-centric perspective of international law is now in the course of changing. There is a pressing need to address these changes within international legal studies and overcome potential conflicts between existing and emerging powers. This structural transformation also demands a change in understanding of existing ideas and institutions in general. This book explores a transcivilizational approach to international law which supplements and modifies two other prevalent perspectives: international and transnational. By considering these three layered viewpoints, this book highlights the complex phenomena surrounding the history and development of international law.

科目目的・到達目標

At the end of the course, students will be expected to understand the basic framework of trans-civilizational approach to international law.

授業計画

In this semester, we will read Introduction(pp. 1-29) and Chapter 1(pp. 30-84). Participants are requested to read attentively these parts of this book. In the end of each session of the class, there will be a question-response time between professor and participants.

- 01 introduction(1)
- 02 introduction(2)
- 03 international law as the law of international society(1)
- 04 international law as the law of international society(2)
- 05 international law as the law of international society(3)
- 06 international law as the law of international society(4)
- 07 international law as an inter-subjective product of humankind(1)
- 08 international law as an inter-subjective product of humankind(2)
- 09 international law as an inter-subjective product of humankind(3)
- 10 international law as an inter-subjective product of humankind(4)
- 11 international law in a multi-centric and multi-civilizational world(1)
- 12 international law in a multi-centric and multi-civilizational world(2)
- 13 international law in a multi-centric and multi-civilizational world(3)
- 14 international law in a multi-centric and multi-civilizational world(4)

成績評価方法

Grading will be based on class attendance(20%), active participation in class discussion(20%) and a final paper explained below(60%). Minimum attendance(80%) is required for getting any grading.

Participants must submit to professor, by the end of the semester, a paper of approximately 6000 English words, which is related to any topics included in the above parts of this book.

テキスト・参考文献等

Handout and/or reading materials will be provided for each topic. For those who need a basic knowledge of international law in English: Lowe, Vaughan, International Law: A very short Instruction (Oxford Univ.Pr., < Very short introductions ser.>, 2016) might be a handy and convenient Introduction.

References: Iwasawa, Y., "Domestic Application of International Law", Collected Courses of the Hague Academy of International Law Vol.378, (2016) pp.9-262.; Yanagihara, M. "Significance of the History of the Law of Nations in Europe and East Asia", Collected Courses of the Hague Academy of International Law, Volume.371(2015); The Max Planck Encyclopedia of Public International Law(Oxford Univ.Pr.), Onuma Yasuaki, Le droit international et le Japon: une vision trans-civilisationnelle du monde, Pedone, 2016.

授業時間外の学習

Participants can freely consult professor about the paper and other matters concerning his or her study programme.

その他特記事項

科目名: 特殊講義Ⅱ (International Law issues from Japanese and Korean Perspectives)

担当教員: 西海 真樹

履修年度: 2019 学期: 前期

開講曜日時限: 月3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Minimum knowledge of basic international law desired but not obligatory.

授業の概要

The purpose of this class is to consider and discuss the public international law issues which are related to Japan and Korea, such as the reception and application of modern international law by these two countries ; the relationship between international law and national law in these two countries ; the attitude of these two countries towards international human rights law, international trade law, international environmental law, international cultural law etc ; the territorial dispute between these two countries ; the problem of war responsibility between these two countries etc.

科目目的・到達目標

At the end of the course, students will be expected to understand the basic characteristics of Japanese and Korean international legal theory and practice.

授業計画

- 01 introduction to the course : a very short general introduction to international law
- 02 reception and application of modern international law by these two countries(1)
- 03 reception and application of modern international law by these two countries(2)
- 04 colonization of Korea by Japan from the view point of international law
- 05 territorial dispute between these two countries
- 06 problem of war and post-war responsibility between these two countries
- 07 relationship between international law and national law in these two countries(1)
- 08 relationship between international law and national law in these two countries(2)
- 09 attitude of these two countries towards international human rights law
- 10 attitude of these two countries towards international economic law
- 11 attitude of these two countries towards international environmental law
- 12 attitude of these two countries towards international law of the sea
- 13 attitude of these two countries towards international security law
- 14 synthesis : international law from my perspective (presentation by participants)

Participants of this class are requested to choose a topic, prepare his or her presentation with brief paper (résumé) including the reference information, and make a presentation followed by question and response with other participants.

成績評価方法

Grading will be based on class attendance(20%), active participation in class discussion(20%) and a final paper explained below(60%). Minimum attendance(80%) is required for getting any grading.

Participants must submit to professor, by the end of the semester, a paper of approximately 6000 English words, which is related to any topics included in the above parts of this book.

テキスト・参考文献等

- *IWASAWA Yūji, " Domestic Application of International Law", Collected Courses of the Hague Academy of International Law Vol.378, (2016) pp.9-262.
- *YANAGIHARA Masayasu, "Significance of the History of the Law of Nations in Europe and East Asia", Collected Courses of the Hague Academy of International Law, Volume.371(2015).
- *ONUMA Yasuaki, International Law in a Transcivilizational World, Cambridge University Press, 2017.
- *ONUMA Yasuaki, Le droit international et le Japon : une vision trans-civilisationnelle du monde, Pedone, 2016.

授業時間外の学習

In each class, professor will give the reference for the participants to prepare the next class. Each reporter is required to make the résumé, the other participants to read attentively the books or the articles concerning the subject of the next class.

その他特記事項

Of course, participants can freely consult professor about the presentation, the paper and other matters concerning his or her study programme.

科目名: 外国法研究1(C)

担当教員: ローゼン ダニエル ア
ラ
ン

履修年度: 2019 学期: 前期

開講曜日時限: 木2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Prior study of American law is not required. Students, however, should be willing to spend the time necessary to read and understand original text legal material in English. No particular level of English (for example, TOEFL or TOEIC) is required; only th

授業の概要

We will read decisions of the United States Supreme Court from the most recent term, in the original text. In this way, students will have the opportunity to develop the skill of understanding such decisions and knowing what to look for in them. At the same time, this approach will give us the opportunity to learn about some of the most important recent developments in American law.

科目目的・到達目標

To become proficient in reading judicial decisions from United States courts.

授業計画

We will typically discuss one decision each week or across two weeks. The citation will be provided a week in advance, and students can download the case from the following source:

<http://supct.law.cornell.edu/supct/index.html>

The following list is only an illustration. The actual cases we will study, and in what order, depends on when the Supreme Court issues its opinions.

- 第1回: Introduction
- 第2回: Overview of U.S. court system and practices of the Supreme Court
- 第3回: Discuss MASTERPIECE CAKESHOP V. COLORADO CIVIL RIGHTS COMMISSION
- 第4回: Continue discussion of MASTERPIECE CAKESHOP V. COLORADO CIVIL RIGHTS COMMISSION
- 第5回: Discuss NAT' L ASSOCIATION OF MANUFACTURERS V. DEPT. OF DEFENSE
- 第6回: Continue discussion of NAT' L ASSOCIATION OF MANUFACTURERS V. DEPT. OF DEFENSE
- 第7回: Discuss CLASS V. UNITED STATES
- 第8回: Continue discussion of CLASS V. UNITED STATES
- 第9回: Discuss NJ THOROUGHBRED HORSEMEN V. NCAA
- 第10回: Continue discussion of NJ THOROUGHBRED HORSEMEN V. NCAA
- 第11回: Discuss JESNER V. ARAB BANK
- 第12回: Continue discussion of JESNER V. ARAB BANK
- 第13回: Reconsideration of all cases discussed during the semester
- 第14回: Student presentations about report topics

成績評価方法

Evaluation will be based on class discussion, an oral presentation on a recent case of the student's choosing, and a written report on that same case, which will be due at the end of the semester. All in English. However, perfect or excellent English is not expected. Just do your best.

Class participation will account for 50% of the grade. The other 50% will be based on the oral presentation and written report.

テキスト・参考文献等

<http://supct.law.cornell.edu/supct/index.html>

授業時間外の学習

Diligently read and consider the court decisions assigned.

その他特記事項

科目名: 外国法研究2(C)

担当教員: ローゼン ダニエル ア
ラ
ン

履修年度: 2019 学期: 後期

開講曜日時限: 木2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Prior study of American law is not required. Students, however, should be willing to spend the time necessary to read and understand original text legal material in English. No particular level of English (for example, TOEFL or TOEIC) is required; only th

授業の概要

We will read decisions of the United States Supreme Court from the most recent term, in the original text. In this way, students will have the opportunity to develop the skill of understanding such decisions and knowing what to look for in them. At the same time, this approach will give us the opportunity to learn about some of the most important recent developments in American law.

科目目的・到達目標

To become proficient in reading judicial decisions from United States courts.

授業計画

We will typically discuss one decision each week or across two weeks. The citation will be provided a week in advance, and students can download the case from the following source:

<http://supct.law.cornell.edu/supct/index.html>

The following list is only an illustration. The actual cases we will study, and in what order, depends on when the Supreme Court issues its opinions.

- 第1回: Introduction
- 第2回: Overview of U.S. court system and practices of the Supreme Court
- 第3回: Discuss RUBIN V. IRAN
- 第4回: Continue discussion of RUBIN V. IRAN
- 第5回: Discuss SAS INSTITUTE INC. V. MATAL, INTERIM DIR., US PATENT & TRADEMARK OFFICE
- 第6回: Continue discussion of SAS INSTITUTE INC. V. MATAL
- 第7回: Discuss ORTIZ V. UNITED STATES
- 第8回: Continue discussion of ORTIZ V. UNITED STATES
- 第9回: Discuss PATCHAK V. ZINKE, SEC. OF INTERIOR
- 第10回: Continue discussion of PATCHAK V. ZINKE, SEC. OF INTERIOR
- 第11回: Discuss TEXAS V. NEW MEXICO & COLORADO
- 第12回: Continue discussion of TEXAS V. NEW MEXICO & COLORADO
- 第13回: Reconsideration of all cases discussed during the semester
- 第14回: Student presentations about report topics

成績評価方法

Evaluation will be based on class discussion, an oral presentation on a recent case of the student's choosing, and a written report on that same case, which will be due at the end of the semester. All in English. However, perfect or excellent English is not expected. Just do your best.

Class participation will account for 50% of the grade. The other 50% will be based on the oral presentation and written report.

テキスト・参考文献等

<http://supct.law.cornell.edu/supct/index.html>

授業時間外の学習

Diligently read and consider the court decisions assigned.

その他特記事項

科目名: 行政学特講1(C)(Advanced Introduction to Public Management)

担当教員: 工藤 裕子

履修年度: 2019 学期: 前期

開講曜日時限: 月6

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

The course is in English and is flipped class, thus the participants are asked to read the assigned chapters in advance and are encouraged to be active in discussion.
Basic knowledge of political science, administrative science, and public administration

授業の概要

The course has five major topics, which are the goals as well;

- 1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.
- 2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.
- 3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.
- 4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.
- 5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

The course would be divided in five parts according the topics above mentioned. In each section, course participants will be provided a pack of reading materials, which would be discussed after the introductory lecture of the instructor. The course uses flipped classroom arrangement and stress is given on discussions during the class.

Participants are asked to find cases (Japanese or those of their countries of origin) to be examined and be presented during the course. Selected cases would be discussed at the end of the course. Term paper should be on the cases.

科目目的・到達目標

The course has five major topics, which are the goals as well;

- 1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.
- 2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.
- 3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.
- 4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.
- 5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

授業計画

1. Course introduction; Concepts, issues and characteristics of public sector
2. Theories and practices in public sector (1) Major theories until 1980s
3. Theories and practices in public sector (2) Major theories after 1990s
4. Traditional public administration
5. Traditional public administration to public management
6. New Public Management (NPM) (1) Theories and characteristics
7. New Public Management (NPM) (2) Cases and practices
8. Post New Public Management and New Public Governance
9. Discussion on presentation topic (1) First half of the participants
10. Discussion on presentation topic (2) Second half of the participants
11. Wrap up on the topics and issues
12. Participants' presentation (1) First half of the participants
13. Participants' presentation (2) Second half of the participants
14. Wrap up on presentations and term paper submission

成績評価方法

Contribution to the class: 30%
Presentation: 20%
Term paper: 50%

If you fail to attend at least 60% of the classes without justification, you cannot get the grade.

テキスト・参考文献等

Owen E. Hughes (2018), Public Management and Administration: An Introduction, 5th Edition, Palgrave Macmillan
Christopher Pollitt (2016), Advanced Introduction to Public Management and Administration, Edward Elgar Publishing

授業時間外の学習

Participants are asked to read assigned chapters in advance to the class. The class is a flipped class and participants are encouraged to take part in an active discussion.

Participants are asked to make presentation on selected topics and write an essay

その他特記事項

科目名: 行政学特講2(C)(Advanced Introduction to Public Management)

担当教員: 工藤 裕子

履修年度: 2019 学期: 後期

開講曜日時限: 月6

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

The course is in English and is flipped class, thus the participants are asked to read the assigned chapters in advance and are encouraged to be active in discussion.
Basic knowledge of political science, administrative science, and public administration

授業の概要

The course has five major topics, which are the goals as well;

- 1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.
- 2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.
- 3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.
- 4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.
- 5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

The course would be divided in five parts according the topics above mentioned. In each section, course participants will be provided a pack of reading materials, which would be discussed after the introductory lecture of the instructor. The course uses flipped classroom arrangement and stress is given on discussions during the class.

Participants are asked to find cases (Japanese or those of their countries of origin) to be examined and be presented during the course. Selected cases would be discussed at the end of the course. Term paper should be on the cases.

科目目的・到達目標

The course has five major topics, which are the goals as well;

- 1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.
- 2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.
- 3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.
- 4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.
- 5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

授業計画

1. Issues and new challenges of public management
2. Examples of public management (1) Modern cases
3. Examples of public management (2) Recent cases
4. Public management in Japan: issues and characteristics (1) Until 1980s
5. Public management in Japan: issues and characteristics (2) After 1990s
6. Actors of Japanese public sector
7. Issues, strategies, policies, and practices of Japanese public management (1) Until 1980s
8. Issues, strategies, policies, and practices of Japanese public management (2) After 1990s
9. Case (1): decentralization and multi-level governance
10. Case (2): privatization, deregulation, and agencification
11. Cases (3): e-Government and ICT
12. Participants' presentation (1) First half of the participants
13. Participants' presentation (2) Second half of the participants
14. Wrap up on presentation and term paper submission

成績評価方法

Contribution to the class: 30%
Presentation: 20%
Term paper: 50%

If you fail to attend at least 60% of the classes without justification, you cannot get the grade.

テキスト・参考文献等

Owen E. Hughes (2018), Public Management and Administration: An Introduction, 5th Edition, Palgrave Macmillan
Christopher Pollitt (2016), Advanced Introduction to Public Management and Administration, Edward Elgar Publishing

授業時間外の学習

Participants are asked to read assigned chapters in advance to the class. The class is a flipped class and participants are encouraged to take part in an active discussion.
Participants are asked to make presentation on selected topics and write an essay

その他特記事項

科目名: 行政学演習1(C)(Public Governance)**担当教員: 工藤 裕子**

履修年度: 2019 学期: 前期

開講曜日時限: 火3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

The seminar is in English and uses flipped class, thus the participants are asked to read the assigned chapters in advance and are encouraged to actively participate in discussion.

Basic knowledge of political science, administrative science, and public

授業の概要

The course has several major topics, which are the goals as well;

1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.

2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.

3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.

4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.

5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

The course would be divided in five parts according the topics above mentioned. In each section, course participants will be provided a pack of reading materials, which would be discussed after the introductory lecture of the instructor. The course uses flipped classroom arrangement and stress is given on discussions during the class.

Participants are asked to find cases (Japanese or those of their countries of origin) to be examined and be presented during the course. Selected cases would be discussed at the end of the course. Term paper should be on the cases.

科目目的・到達目標

The course has several major topics, which are the goals as well;

1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.

2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.

3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.

4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.

5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

授業計画

1. Course introduction; Concepts, issues and characteristics of public sector
2. Historical evolution on theories and practices in public sector
3. Discussion on historical evolution on theories and practices in public sector
4. Traditional public administration
5. Discussion on traditional public administration
6. Public administration to public management
7. Discussion on public administration to public management
8. New Public Management (NPM)
9. Discussion on New Public Management (NPM)
10. Post New Public Management and New Public Governance
11. Discussion on post New Public Management and New Public Governance
12. Presentation of research (1) First half of the participants
13. Presentation of research (2) Second half of the participants
14. Wrap up on presentations and term paper submission

成績評価方法

Contribution to the class: 30%

Presentation: 30%

Term paper: 40%

If you fail to attend at least 60% of the classes without justification, you cannot get the grade.

テキスト・参考文献等

Owen E. Hughes (2018), Public Management and Administration: An Introduction, 5th Edition, Palgrave Macmillan
 Christopher Pollitt (2016), Advanced Introduction to Public Management and Administration, Edward Elgar Publishing

授業時間外の学習

Participants are asked to read assigned chapters in advance to the class. The class is a flipped class and participants are encouraged to take part in an active discussion.

Participants are asked to make presentation on selected topics and write an essay

その他特記事項

科目名: 行政学演習2(C)(Public Governance)**担当教員: 工藤 裕子**

履修年度: 2019 学期: 後期

開講曜日時限: 火3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

The seminar is in English and uses flipped class, thus the participants are asked to read the assigned chapters in advance and are encouraged to actively participate in discussion.

Basic knowledge of political science, administrative science, and public

授業の概要

The course has several major topics, which are the goals as well;

1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.

2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.

3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.

4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.

5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

The course would be divided in five parts according the topics above mentioned. In each section, course participants will be provided a pack of reading materials, which would be discussed after the introductory lecture of the instructor. The course uses flipped classroom arrangement and stress is given on discussions during the class.

Participants are asked to find cases (Japanese or those of their countries of origin) to be examined and be presented during the course. Selected cases would be discussed at the end of the course. Term paper should be on the cases.

科目目的・到達目標

The course has several major topics, which are the goals as well;

1) To understand the basic theories and concepts of public management. In this regards, evolution from traditional public administration theories and practice to public management, and then toward public governance would be illustrated, analysed and discussed.

2) To understand the issues and challenges of public management. Especially financial crisis, austerity measures, and ageing society would be discussed.

3) To understand the major techniques of public management through cases and acquire the ability to apply them to solve problems. Exercises would be provided to improve the problem-solving capacity of the participants.

4) To understand the Japanese public management in international context. Since this course is offered in Japan, special attention will be paid at its characteristics and uniqueness from comparative point of view.

5) To understand the issues and challenges of Japanese public management. Major issues in recent years would be explored and discussed.

授業計画

1. Issues and new challenges of public management
2. Discussion on Issues and new challenges of public management
3. Examples of public management (1) Two choices from participants' interests
4. Examples of public management (2) Other two choices from participants' interests
5. Discussion on examples (1) First half
6. Discussion on examples (2) Second half
7. Public management in Japan: issues and characteristics
8. Discussion on public management in Japan
9. Case (1): decentralization and multi-level governance
10. Case (2): privatization, deregulation, and agencification
11. Cases (3): e-Government and ICT
12. Presentation of research (1) First half of the participants
13. Presentation of research (2) Second half of the participants
14. Wrap up on presentation and term paper submission

成績評価方法

Contribution to the class: 30%

Presentation: 30%

Term paper: 40%

If you fail to attend at least 60% of the classes without justification, you cannot get the grade.

テキスト・参考文献等

Owen E. Hughes (2018), Public Management and Administration: An Introduction, 5th Edition, Palgrave Macmillan
Christopher Pollitt (2016), Advanced Introduction to Public Management and Administration, Edward Elgar Publishing

授業時間外の学習

Participants are asked to read assigned chapters in advance to the class. The class is a flipped class and participants are encouraged to take part in an active discussion.

Participants are asked to make presentation on selected topics and write an essay

その他特記事項

科目名: 進化経済学 I

履修年度: 2019 学期: 後期

参考URL:

担当教員: 有賀 裕二

配当年次: 1年次配当

履修条件・関連科目等

Requirements to join in this lecture are not specified.

授業の概要

To use my favorite phrase, an air fighter is no longer an air fighter in the sense that stability is no longer part of its structural design. Car has a similar story. The control of modern vehicles is becoming further removed from human input with an adaptive cruising system. This also applies to the market. The revisionist approach depending on the individualistic rationality therefore does not fully describe the essential transformations emerging in the world.

The lecture will in principle refer to the leucutre's own new book:
Yuji Aruka, Evolutionary Foundations of Economic Science: How Can Scientists Study Evolving Economic Doctrines from the Last Centuries?, Series: Evolutionary Economics and Social Complexity Science, Vol. 1, Springer, November2014, 223pp.

Another book of the reader will be helpful to aid study:
Yuji Aruka, Complexities of Production and Interacting Human Behaviour, Physica Verlag[Springer Heidelberg], April 2011, 272pp.

科目目的・到達目標

Evolutionary economics is interested in re-dominating the basic variables to accommodate an essentially evolving socio-economics system. It may also be demonstrated that an economic system cannot stand by itself irrespective of a particular institution and/or history. So human rationality does not necessarily play a main role in economic disciplines. This kind of approach will be connected with the idea of "social complexity science".

授業計画

The plan of the weeks:

1. Historical Reviews Around Evolving Ideas of the Invisible Hand
2. Some Myths of Modern Economics
3. The Historic Design of the Demand Law and Its Reconstruction
4. Reconstructing Demand theory
5. Network Analysis of Production and Its Renewal
6. historical Background to Network Thinking
7. Matching Mechanism Differences Between Classical and Financial Markets
8. The Matching Mechanism in the U-Mart Experiment
9. The Evolution of the Market and Its Growing Complexity
10. Some Instances of Technological Revolution
11. The Complexities Generated by the Movement of the Market Economy
12. Heavy Tail Distributions with heavier Randomness
13. Trader Dynamics to Generate Financial Complexity
14. Avatamsaka Stochastic Process

成績評価方法

Two ways for grade the credit:

1. Do a paper on the given subjects at the end of then semester.
2. Days attended

テキスト・参考文献等

Yuji Aruka, Evolutionary Foundations of Economic Science: How Can Scientists Study Evolving Economic Doctrines from the Last Centuries?, Series: Evolutionary Economics and Social Complexity Science, Vol. 1, Springer, November2014, 223pp.

Yuji Aruka, Complexities of Production and Interacting Human Behaviour, Physica Verlag[Springer Heidelberg], April 2011, 272pp.

授業時間外の学習

The distributed materials brought at lecture should be carefully kept. Each time when lecture is finished, you should make your short comment/opinion to the lecture. You are also recommended to read the textbooks in the above.

その他特記事項

科目名: **金融論 I (Introduction to macroeconomics and monetary economics)**

担当教員: **藤木 裕**

履修年度: 2019 学期: 前期

開講曜日時限: 木2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

英語での履修ができること The official language of this class is English

授業の概要

Makiw教授の「マクロ経済学(英文の原書)」を輪読します
学生は教科書を読破のうえ、分担して各章を報告します

Students must read and present several chapters of N. Gregory Mankiw, *Macroeconomics*, 9th edition, 2016, Worth Publishers.

科目目的・到達目標

マクロ経済学、金融論の大学院初級の知識を得ます
Introduction to macroeconomics and monetary economics

授業計画

以下の予定に従い、教科書の輪読を行う

- 第1講. The Science of Macroeconomics (Chapter 1 of the text)
- 第2講. The Data of Macroeconomics (Chapter 2 of the text)
- 第3講. National Income (Chapter 3 of the text)
- 第4講. The Monetary System (Chapter 4 of the text)
- 第5講. Inflation (Chapter 5 of the text)
- 第6講. Unemployment (Chapter 7 of the text)
- 第7講. Introduction to Economic Fluctuations (Chapter 10 of the text)
- 第8講. Aggregate Demand I: Building the IS-LM Model (Chapter 11 of the text)
- 第9講. Aggregate Demand II: Applying the IS-LM Model (Chapter 12 of the text)
- 第10講. Aggregate Supply and the Short-run Tradeoff Between Inflation and Unemployment (Chapter 14 of the text)
- 第11講. A Dynamic Model of Aggregate Demand and Aggregate Supply (Chapter 15 of the text)
- 第12講. Alternative Perspectives on Stabilization Policy (Chapter 18 of the text)
- 第13講. The Financial System (Chapter 20 of the text)
- 第14講. Summary

Schedule

- 1. The Science of Macroeconomics (Chapter 1 of the text)
- 2. The Data of Macroeconomics (Chapter 2 of the text)
- 3. National Income (Chapter 3 of the text)
- 4. The Monetary System (Chapter 4 of the text)
- 5. Inflation (Chapter 5 of the text)
- 6. Unemployment (Chapter 7 of the text)
- 7. Introduction to Economic Fluctuations (Chapter 10 of the text)
- 8. Aggregate Demand I: Building the IS-LM Model (Chapter 11 of the text)
- 9. Aggregate Demand II: Applying the IS-LM Model (Chapter 12 of the text)
- 10. Aggregate Supply and the Short-run Tradeoff Between Inflation and Unemployment (Chapter 14 of the text)
- 11. A Dynamic Model of Aggregate Demand and Aggregate Supply (Chapter 15 of the text)
- 12. Alternative Perspectives on Stabilization Policy (Chapter 18 of the text)
- 13. The Financial System (Chapter 20 of the text)
- 14. Summary

成績評価方法

輪読への参加 (80%) と期末レポート(20%)

Students must present several chapters of the text. (80%) A take home final exam. (20%)

テキスト・参考文献等

テキスト: Textbook:

N. Gregory Mankiw, *Macroeconomics*, 9th edition, 2016, Worth Publishers.

ISBN-10: 1464182892

ISBN-13: 9781464182891

授業時間外の学習

予習を行うこと。

Students must read the assigned readings before each class.

The Economistの記事を一月に数個は読むこと。

Students should go over the weekly magazine, The Economist, at least a couple of times a month.

その他特記事項

英語での授業になります

The official language of this class is English.

科目名: 金融論Ⅱ (Introduction to banking and finance)**担当教員: 小野 有人**

履修年度: 2019 学期: 後期

開講曜日時限: 火1

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Understanding of undergraduate level Microeconomics and Macroeconomics is prerequisite. The course will be delivered in English, unless there is no student who wishes to do so.

授業の概要

This course will cover the following topics: overview of the financial system, management of banks and other financial intermediaries, industrial organization of banks, financial regulation, and financial crises. Students will be required to (i) present in turn the reading material covered in each class, (ii) prepare for discussions in classes, and (iii) give a final presentation on the paper(s) that he/she is interested in.

科目目的・到達目標

This course is a graduate level introduction to banking and finance. The objective is to provide students with a firm grounding in the concepts and theories of banking and finance.

授業計画

The outline below should be considered a rough guide; detailed outline will be provided after discussing with students who will take the course.

1. Introduction (guidance of the textbook, assignment of presentations, etc.)
2. An Overview of the Financial System (Mishkin and Eakins [1] Chapter 2, pp. 57-75)
3. Interest rates and valuation (1) (Mishkin and Eakins [1] Chapter 3, pp. 78-92)
4. Interest rates and valuation (2) (Mishkin and Eakins [1] Chapter 3, pp. 92-103)
5. Term structure of interest rates (1) (Mishkin and Eakins [1] Chapter 5, pp. 129-143)
6. Term structure of interest rates (2) (Mishkin and Eakins [1] Chapter 5, pp. 143-153)
7. Financial Institutions (1) (Mishkin and Eakins [1] Chapter 7, pp. 175-187)
8. Financial Institutions (2) (Mishkin and Eakins [1] Chapter 7, pp. 187-202)
9. Banking (1) (Mishkin and Eakins [1] Chapter 17, pp. 433-449)
10. Banking (2) (Mishkin and Eakins [1] Chapter 17, pp. 449-457)
11. Risk management (1) (Mishkin and Eakins [1] Chapter 23, pp. 604-609)
12. Risk management (2) (Mishkin and Eakins [1] Chapter 23, pp. 609-620)
13. Final presentations (1)
14. Final presentations (2)

If students want to focus more on "banking," we may skip some of the chapters above and instead discuss following topics: Structure and competition in banking (Mishkin and Eakins [1] Chapter 19), Insurance companies and pension funds (Mishkin and Eakins [1] Chapter 21), Investment banks, security brokers and dealers, and venture capital firms (Mishkin and Eakins [1] Chapter 22)

If students want to focus more on "finance," we may skip some of the chapters above and instead discuss following topics: Efficient market hypothesis (Mishkin and Eakins [1] Chapter 6), Bond market (Mishkin and Eakins [1] Chapter 12), Stock market (Mishkin and Eakins [1] Chapter 13), Financial derivatives (Mishkin and Eakins [1] Chapter 24)

成績評価方法

Class attendance is essential; absence without notice is subject to severe penalty (point deduction). Grade will be based on the assigned presentations of the course material (60%), final presentation (30%), and class discussions & homework (10%)

テキスト・参考文献等

The suggested text book is Mishkin and Eakins [1]. Alternatively, we may use Mishkin [2] or Greenbaum, Thakor, and Boot [3].

[1] Mishkin, Frederic S., and Stanley Eakins (2015), Financial Markets and Institutions, 8th edition, Global edition, Pearson, ISBN: 9780133423624

[2] Mishkin, Frederic S. (2015), The Economics of Money, Banking and Financial Markets, 11th edition, Global edition, Pearson, ISBN: 9781292094182

[3] Greenbaum, Stuart I., Anjan V. Thakor, and Arnoud W.A. Boot (2016), Contemporary Financial Intermediation, Third edition, Academic Press, ISBN: 9780124051966

授業時間外の学習

Students will be required to (i) present in turn the reading material covered in each class, (ii) prepare for discussions in classes, and (iii) give a final presentation on the paper(s) that he/she is interested in.

その他特記事項

For students who may take the course, send me an email by April 6th: a-ono@tamacc.chuo-u.ac.jp

科目名: 企業金融論 I (Fundamentals of Corporate Finance)
履修年度: 2019 学期: 後期 開講曜日時限: 月2

担当教員: 鯉淵 賢
配当年次: 1年次配当

参考URL:

履修条件・関連科目等

学部3・4年生の履修可能

授業の概要

この講義はオプション価格についての理論を学習します。

科目目的・到達目標

本講義の内容は、商学部春学期「企業金融論」(3年次以上配当科目)の内容を理解した者に対して、より上級の論点を講義するものである。今年度はオプション価格付けについて講義を行う。学部・大学院共通科目として設置してあるので、学部の企業金融論を春学期に受講したのち、秋学期にほぼ同内容で英語の講義を経験してみた学部生の受講を歓迎する。

授業計画

- [1] Introduction for Financial Options
- [2] Financial Options (1): Option Basics / Put-Call Parity
- [3] Financial Options (2): Put-Call Parity / Factors affecting Option Prices
- [4] Financial Options (3): Exercising Option early / Options and Corporate Finance
- [5] Summary and Quiz 1
- [6] Option Valuation (1): The Binomial Option Pricing Model
- [7] Option Valuation (2): The Black-Scholes Formula
- [8] Option Valuation (3): Calculating the Black-Scholes Option Price
- [9] Option Valuation (4): Risk-neutral Probability / Risk and Return of an Option
- [10] Special session: Using the Bloomberg database
- [11] Risk Management (1): Insurance / Commodity Risk
- [12] Risk Management (2): Exchange Rate Risk
- [13] Risk Management (3): Interest Rate Risk
- [14] Final presentation

成績評価方法

授業出席、授業態度(質問の積極性など)、小テスト(70%)
講義最終日におけるプレゼンテーション(30%)

テキスト・参考文献等

Reference
Corporate Finance, 2nd/3rd/Global Edition, Jonathan Berk and Peter DeMarzo, Pearson Education, 2011, ISBN: 0136089437.

授業時間外の学習

特になし

その他特記事項

科目名: 応用経済学 I**担当教員: 江口 匡太**

履修年度: 2019 学期: 前期

開講曜日時限: 水2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

このクラスを履修するにあたり、基本的なミクロ経済学と微積分の知識を前提とします。

授業の概要

人事の経済学の基本的なテーマを講義します。人事の経済学とは経済学の一つの応用分野であり、人事管理や契約理論と深い関係にあります。主なトピックは、採用、解雇、報酬制度、昇進、技能形成、賃金交渉などです。

科目目的・到達目標

この授業の目的は、人事の経済学の理論の基本的な考え方を身に着けることです。様々な人事制度や法制度の背後にある基本原理、人はインセンティブに反応することを理解し、望ましい制度デザインの在り方を考えます。

授業計画

最初に需要と供給という市場の理論の復習を行い、人事の経済学の内容に入っていきます。不確実性下の意思決定、成果主義的報酬制度、昇進、技能形成、長期雇用の是非、チーム生産などを扱います。

講義予定

1. イントロダクション
2. 労働市場1: 需要と供給
3. 労働市場2: 最低賃金
4. リスクとインセンティブ1: 不確実性下の意思決定
5. リスクとインセンティブ2: 成果主義的報酬制度
6. リスクとインセンティブ3: リスクとは何か
7. マルチタスクとインセンティブ
8. 絶対評価と相対評価
9. 昇進1: 理論
10. 昇進2: エビデンス
11. 技能形成1: ベッカーの定理
12. 技能形成2: 企業特殊技能と日本企業
13. 賃金プロファイルと長期雇用
14. チーム生産

内容は変更されることがあります

成績評価方法

平常点 (50%) と課題提出 (50%)

テキスト・参考文献等

授業で使用するスライドなどはmanabaにアップする予定です。

以下の本は授業の理解に役立つと思われます:

"The Modern Firm" by J. Roberts (Oxford UP)

"Personnel Economics" by E. Lazear (MIT Press)

"Personnel Economics for Managers" by E. Lazear (Wiley)

"Economics, Organization, and Management" by P. Milgrom & J. Roberts (Prentice Hall)

授業時間外の学習

受講する学生は最初の授業に必ず出席すること。

受講生は受講前に、授業に使う資料を各自ダウンロードし、準備すること。

その他特記事項

科目名: 特殊講義(7)(Modern Financial Macroeconomics)**担当教員: 高橋 一郎**

履修年度: 2019 学期: 後期

開講曜日時限: 月1

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

The exposition of this course requires the basic understanding of macroeconomics. Specifically, you should have taken Principles of Macroeconomics.

授業の概要

This course aims to give a solid foundation in modern financial macroeconomics. We start with compiling national accounts statistics for a hypothetical economy. Then, we study the financial intermediary by tracing changes in balance sheets of commercial banks and the central bank. We will learn the fundamental working of our capitalist economy with a fractional reserve banking system. We will explore (1) whether a capitalist economy is inherently unstable or stable, and (2) what factors would stabilize or destabilize the economy. The course also gives an introduction to a new promising approach to macroeconomics: agent-based macroeconomics.

科目目的・到達目標

You will gain rich understanding of money and banking, macroeconomic interactions between real and financial sectors, and methods of analyzing them. This course will enable you to develop insights for understanding a variety of "real-world" macroeconomy.

授業計画

Preliminary Course Outline (subject to change):

- (1) Course Outline, Value-added and National Accounts Statistics
- (2) Exercise in National Account Statistics
(You are expected to compile a GDP account of a hypothetical economy.)
- (3) Balance sheet approach to Money and Banking, The Art of Central Banking
- (4) Exercise on money supply and interest rate
- (5) Debt Deflation Model by Irving Fisher
- (6) Financial instability: Minsky's Theory (1)
- (7) Financial instability: Minsky's Theory (2)
- (8) Financial Accelerator model
- (9) Financial crisis and systemic risk: Cascade model
- (10) Disequilibrium Dynamics by Iwai (1): The Keynesian Theory of Slump
- (11) Disequilibrium Dynamics by Iwai (2): The Wicksellian Theory of Crisis
- (12) agent-based Keynes--Wicksell macroeconomic model: (1) model description
- (13) agent-based Keynes--Wicksell macroeconomic model: (2) results and discussions
- (14) Exam

成績評価方法

Grading Policy:
Four Problem Set 40%
Final exam 60%

テキスト・参考文献等

There is no required textbook. The following books are useful.

Katsuhito Iwai, (1981), "Disequilibrium Dynamics,"
New Haven and London: Yale University Press

Hyman P. Minsky, (1986), "Stabilizing an unstable economy,"
New Haven: Yale University Press.

Basil J. Moore, (1988), "Horizontalists and Verticalists: the macroeconomics of credit money,"
Cambridge University Press.

授業時間外の学習

Assignments:

I will post course materials, including reading assignments in "manaba". The students are expected to read and understand them before attending class.

There are four problem sets to be graded.

At the end of each class, I will give assignments. You are expected to solve them before the next class.

その他特記事項

We meet the second period on Friday, during the Spring semester, 2019.
Office hour: 17:00-18:00, Friday.

科目名: Microeconomics I

履修年度: 2019 学期: 前期

開講曜日時限: 火3

担当教員: 有賀 裕二

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Requirements to join in this lecture are not specified.

授業の概要

The traditional microeconomic theory is studying the working of the market economy in view of household and firm sector, whose agents are homogenous. In contrast to the traditional ideas, in our lecture, we argue the next issues.

(1) The human basis of the market system is replaced with the algorithmic basis. The typical example is the HFT (High Frequency Trading). Here human decision is alienated from the market transaction. A new market design in conformity with the new system must be reconsidered.

(2) The traditional attention was much paid to homo economicus. It is well known that the law of demand cannot be derived without making the income effect positive. In order to keep it positive, however, we need to assume the heterogenous consumption patterns among the different income classes. We will also examine the production set to follow some heterogenous combination of technologies by taking into account the heterogeneous technologies where the same input is not necessarily allowed to produce the same output.

(3) The game theoretic approach became popular. But even the prisoner's dilemma cannot give a realistic solution. In our daily life, cooperation is often rather preferred. The individualistic solution cannot explain our daily solution. We will look for several selection rules in evolutionary game theory. It much more matters for us to measure the performance in the environment of fully random iterated games. We are rather interested in a selection with redundancies.

科目目的・到達目標

Our society is undergoing a great change. The social ICT (Information and Communication Technology) is rapidly penetrating into the economic order at almost every layer. The modern market system has also encountered a great transformation due the algorithmic intelligence at millisecond or microsecond basis. Furthermore, the advent of blockchain technology is replacing the traditional platforms of micro-market with a new one like "Ethereum". In a new presence of algorithmic advances of economic processing, thus, there may be much weakened human decision makings on the main economic activities. So we must reconstruct a new microscopic view without resort to the subjective decision theory of homo economicus.

授業計画

1. The nature of technology and the present social complexities
2. The traditional perspective of the relationship between the production function and the cost function (The implicit function theorem and the envelope theorem)
3. Production technology and the Zonotope production set (A new measure of heterogeneity of firm technologies at the industrial level)
4. The notion of individualistic rationality and its historical background
5. The mechanism of the classical commodity exchange
6. The mechanism of the stock exchange in view of the artificial intelligent market simulator
7. The algorithm of a stock price generation and the standard configuration of the traditional strategy set to realize any set of spot price time series
8. The prisoner's dilemma and its evolutionary interpretation
9. The elementary proof of a utility function based on the individualistic preference ordering
10. The derivation of demand function based on an individualistic utility maximization
11. An elementary proof of a core allocation (a limit theorem) by coalition formation
12. The multi-nomial logit utility applied to an interpersonal framework
13. The discrete choice theory and the problem of imperfect identification
14. The essential problem of voting and auction theories and the technology of blockchain

成績評価方法

Two ways for grade the credit:

1. Do a paper on the given subjects.
2. Days attended over 90 percent

テキスト・参考文献等

Yuji Aruka, Evolutionary Foundations of Economic Science: How Can Scientists Study Evolving Economic Doctrines from the Last Centuries?, Series: Evolutionary Economics and Social Complexity Science, Vol. 1, Springer, November 2014, 223pp.

Yuji Aruka, Complexities of Production and Interacting Human Behaviour, Physica Verlag [Springer Heidelberg], April 2011, 272pp.

授業時間外の学習

The distributed materials brought at lecture should be carefully kept. Each time when lecture is finished, you should make your short comment/opinion to the lecture. You are also recommended to read the textbooks mentioned in the above.

その他特記事項

科目名: Social Research I

履修年度: 2019 学期: 前期

参考URL:

担当教員: 武石 智香子

配当年次: 1年次配当

開講曜日時限: 金5

履修条件・関連科目等

英語の教科書を理解できることを前提とします。履修条件とする科目はありませんが、数学の基本とシンボル表記の基礎知識が必要です。

授業の概要

本科目では、「多様な社会の量的分析」に関する教科書を使って統計の基本概念的簡単なおさらいから始め、 χ^2 検定、t検定、分散分析、回帰分析に進みます。

科目目的・到達目標

セメスターの終わりには、統計の基本と回帰分析の考え方を理解できるようになることが目標です。

授業計画

1. Introduction to Social Statics for a Diverse Society
2. The What and the Why of Statistics
3. Frequency Distribution
4. Graphic Presentation
5. Central Tendency
6. Variability
7. Nomal Distribution
8. Sampling Distribution
9. Estimation
10. Testing Hypotheses
11. Bivariate Tables
12. Chi-square Test
13. ANOVA
14. Regression and Correlation

成績評価方法

毎回の授業への準備と参加 (50%)
期末課題 (50%)

テキスト・参考文献等

Frankfort-Nachmias & Leon-Guerrero, Social Statistics for a Diverse Society: Sage.

授業時間外の学習

毎回、教科書の該当章を事前に読んでくること。期末のプレゼンを準備しておくこと。

その他特記事項

科目名: **Coping with Crises in Complex Socio-Economic Systems Workshop**

担当教員: **秋山 英三、有賀 裕二、池田 裕一、磯谷 明德、井上 寛康、田中 美栄子、谷本 潤、橋本 敬、藤原 義久**

履修年度: 2019 学期: 後期

開講曜日時限: 火4

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

No requirement; This lecture is open mainly for students from overseas. But Japanese students also are much welcome.

授業の概要

The present world indeed is fulfilled with many such serious crises as environmental crises, the collapse of transportation systems, as well as financial and social crises such as poverty, social conflicts or wars. Complexity then is one of the key features for understanding the modern world with volatile, fluctuating, and disruptive phases, many of which might give rise to crises in the above, in particular, socio-economic systems: unstable and dangerous situations that are characterized by abrupt and large-scale changes. In the recent studies, similar common phases are often found in many different fields between society and nature: business, marketing, finance, economy, innovation, urban/traffic system, artificial/web intelligence, human behaviour/population/epidemics, biology, physics and so on. Analyzing these issues and integrating such insights could contribute to discover any useful mean for managing such a crisis. Incidentally, this is a serial lecture of visiting lectures of various fields, though Yuji Aruka, the coordinator, always gives guidance and introduction in advance, as well as comments in the classroom.

科目目的・到達目標

This lecture is served for reconsiderations of the current socio-economic crisis in view of evolutionary and institutional aspects.

授業計画

The coordinators of this serial lecture (workshop) will arrange the prominent lecturers inside and outside our university, sometimes, internationally, to argue and discuss these issues in order to solve our pressing problems. As the respective lecture depends on the lecturers' ongoing studies, the subject arrangement has not yet confirmed in advance. However, speaking generally, the current subjects of evolutionary games, socio-physics, econo-physics, and knowledge science will be argued. It is noted that these subjects are mutually connected as he/she argues them. Network analysis is a typical instance which is ranging between them. We suggest the case of the Winter 2015 lectures. The lecturers and their subjects usually are almost fixed. But the lecture date is not fixed at all.

[The case of Winter 2015]

1. (Sept 29) Yuji Aruka Faculty of Commerce:(guidance) Evolutionary Foundations for Economic Science:How Can Scientists Study Evolving Economic Doctrines from the Last Centuries?
2. (Oct 6) Bertram Schefold, Goethe University, Frankfurt a/M:The applicability of modern economics to forms of capitalism in antiquity: Some theoretical considerations and textual evidence. [This speaker is an international guest who happened to visit Japan.]
3. (Oct 13) Yuji Aruka Faculty of Commerce:Historical Reviews Around Evolving Ideas of the Invisible Hand
4. (Oct 20) Hideaki Aoyama, Kyoto University(Physics): Deflation and Money
5. (Oct 27) Yuji Aruka Faculty of Commerce:Matching Mechanism Differences Between Classical and Financial Markets
6. (Nov 3) Mieko Tanaka, Tottori University(computer Science): The Strongest Strategies Evolved in the IPD
7. (Nov 10) Eizo Akiyama, Tsukuba University(Informatics and engineering): Researches on the Evolution of Cooperation
8. (Dec 8-1) Shigeaki Ogibayashi, Chiba Institute of Technology: Introduction to agent-based modelling and simulation of macroeconomic systems (I)
9. (Dec 8-2) Shigeaki Ogibayashi, Chiba Institute of Technology: Introduction to agent-based modelling and simulation of macroeconomic systems (II)
10. (Dec 15) Hiroyasu Uemura, Yokohama National University:The Comparative Analysis of the Japanese and Chinese Economies: Institutions, Industries and Growth
11. (Dec 22-1) Jun Tanimoto, Kyushu University:Socio-physics approach on social networks & evolutionary games(I)
12. (Dec 22-2) Jun Tanimoto, Kyushu University(Interdisciplinary School of Engineering Sciences): Socio-physics approach on social networks & evolutionary games(II)
13. (Jan 5) Yoshi Fujiwara, Hyogo University(Physics/Simulation): Fiscal Sustainability and Sovereign Debt Network: Data and Discussion
- 14 (Jan 20-1) Takashi Hashimoto, Japan Advanced Institute of Technology(Knowledge Science):Knowledge Science

成績評価方法

Two ways for grade the credit:

1. Do a paper on the given subjects.
2. Days attended over 90 percent

テキスト・参考文献等

Yuji Aruka, Evolutionary Foundations of Economic Science: How Can Scientists Study Evolving Economic Doctrines from the Last Centuries?, Series: Evolutionary Economics and Social Complexity Science, Vol. 1, Springer, November2014, 223pp.

授業時間外の学習

The distributed materials brought by lecturers should be carefully kept. Each time when lecture is finished, you should make your short comment/opinion to the lecture.

その他特記事項

科目名: Financial dealings and the market economy (1)**担当教員: 森谷 博之**

履修年度: 2019 学期: 夏季集中

開講曜日時限: 他

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

No requirement: This lecture is open to everyone who is interested in trading, investment and funding strategies.

授業の概要

This lecture discusses how an investment/funding opportunity has emerged and what type of an investment/funding strategy has been implemented in the turbulent financial and economic environment. The globalization of financial markets, the evolution of financial technology and many other changes have been taking place in the world. These changes caused many complex phenomena, such as Black Wednesday, Asia Crisis, LTCM Crisis, Sub-Prime Shock and the most recent phenomenon, Euro Crisis, China shock, Brexit. The impact on these phenomena into investment returns and funding costs was a highly-diverse. We analyze these phenomena by taking a multidisciplinary approach especially focusing on theories and observations.

科目目的・到達目標

This program provides students with an opportunity to grasp broad views of trading/investment/funding activities in the global financial markets.

授業計画

- week 1
1: The history of financial innovation
2: The role of technology in financial innovation
3: Circular flow of money and financial system
- week 2
4: A random walk and its definition
5: Introduction to Capital Assets Pricing Model
6: Introduction to financial derivatives: swaps and options
7: Introduction to structured products
- week 3
8: The basics of risk management
9: Price trends on stocks and other financial products
10: Types of trading/investment strategies
11: Hedge fund strategies and its economic impacts
- week 4
12: Financial products and their economic impacts
13: Financial policies/regulations and their economic impacts
14: Extreme events in financial markets: the Euro crisis, China shock, Brexit, Lehman shock

If students agree, we will use Jupyter(IPython) notebook for presentations.

Hiroyuki Moriya, a director of Quasars22, has had many experience in finance with working for commercial banks, multilateral development bank, investment banks and hedge fund. Currently he has run the investment businesses in Singapore and Japan, and taught trading and risk managements in several organizations in Japan.

成績評価方法

Participation: 50%
Final Report: 50%

テキスト・参考文献等

- Joseph Stiglitz. The Roaring Nineties: Why we're paying the price for the greediest decade in history. Penguin Books, 2003
- Joseph E. Stiglitz and Bruce Greenwald. Towards a New Paradigm in Monetary Economics. Cambridge University Press, 2003
- Peter L. Bernstein, Against the Gods, John Wiley & Sons, Inc., 1996
- Peter L. Bernstein. Capital Ideas: The improbable origins of modern wall street, John Wiley & Sons, Inc., 2005
- Peter L. Bernstein, Capital Ideas Evolving, John Wiley & Sons, Inc., 2009
- Milton Friedman. Capitalism and Freedom. The University of Chicago Press, 1962
- Raghuram G. Rajan and Luigi Zingales. Saving Capitalism from the Capitalists. Princeton University Press, 2003
- Robert J. Shiller. Irrational Exuberance. Broadway Books, 2005
- Robert J. Shiller. The Subprime Solution: How today's Global Financial Crisis Happened, and What to Do about it. Princeton University Press, 2008
- Nicolas Darvas, How I made \$2,000,000 in the stock market, Martino Publishing
- Brian Christian and Tom Griffiths, Algorithms to live by, William Collins 2016

授業時間外の学習

Preparation of handouts and references

その他特記事項

科目名: Financial dealings and the market economy (2)**担当教員: 熊谷 善彰、森谷 博之**

履修年度: 2019 学期: 冬季集中

開講曜日時限: 他

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

No requirement: This lecture is open to everyone who is interested in trading, investment and funding strategies.

授業の概要

This lecture discusses how an investment/funding opportunity has emerged and what type of an investment/funding strategy has been implemented in the turbulent financial and economic environment. The globalization of financial markets, the evolution of financial technology and many other changes have been taking place in the world. These changes caused many complex phenomena, such as Black Wednesday, Asia Crisis, LTCM Crisis, Sub-Prime Shock, and the most recent phenomenon, Euro Crisis, China shock, Brexit. The impact on these phenomena into investment returns and funding costs was a highly-diverse. We analyze these phenomena by taking a multidisciplinary approach especially focusing on theories and observations.

科目目的・到達目標

This program provides students with an opportunity to grasp broad views of trading/investment/funding activities in the global financial markets.

授業計画

Week 1

- 1: Introduction of the course (Moriya, Kumagai)
- 2: Globalization and International Capital Market (Moriya)
- 3: History of Japanese banking and finance from Meiji era (Kumagai)

Week 2

- 4: Currency market, foreign exchange risk and risk management (Moriya)
- 5: Hedging strategies of currency risk (Moriya)
- 6: Currency risk and economic impacts (Moriya)
- 7: Offshore/global financial center (Moriya)

Week 3

- 8: Pricing of bond and stock; Discount Cash Flow Model (Kumagai)
- 9: Optimal Capital Structure: MM theory, tax shield, financial distress and leverage effect (Kumagai)
- 10: Asymmetric information in finance; signaling and agency problem (Kumagai)
- 11: Modern Portfolio theory; Expected utility hypothesis and diversification effect (Kumagai)

Week 4

- 12: Capital Asset Pricing Model (Kumagai)
 - 13: FinTech and new ear of finance (Moriya)
 - 14: Summary of the course (Kumagai, Moriya)
- Sometime, we invite visiting speakers from industries.

Hiroyuki Moriya, a director of Quasars22, has had many experience in finance with working for commercial banks, multilateral development bank, investment banks and hedge fund. Currently he has run the investment businesses in Singapore and Japan, and taught trading and risk managements in several organizations in Japan.

成績評価方法

Participation: 50%
Final Report: 50%

テキスト・参考文献等

- Joseph Stiglitz. The Roaring Nineties: Why we're paying the price for the greediest decade in history. Penguin Books, 2003
- Joseph E. Stiglitz and Bruce Greenwald. Towards a New Paradigm in Monetary Economics. Cambridge University Press, 2003
- Peter L. Bernstein, Against the Gods, John Wiley & Sons, Inc., 1996
- Peter L. Bernstein. Capital Ideas: The improbable origins of modern wall street, John Wiley & Sons, Inc., 2005
- Peter L. Bernstein, Capital Ideas Evolving, John Wiley & Sons, Inc., 2009
- Milton Friedman. Capitalism and Freedom. The University of Chicago Press, 1962
- Raghuram G. Rajan and Luigi Zingales. Saving Capitalism from the Capitalists. Princeton University Press, 2003
- Robert J. Shiller. Irrational Exuberance. Broadway Books, 2005
- Robert J. Shiller. The Subprime Solution: How today's Global Financial Crisis Happened, and What to Do about it. Princeton University Press, 2008
- Nicolas Darvas, How I made \$2,000,000 in the stock market, Martino Publishing
- Brian Christian & Tom Griffiths, Algorithms to live by, 2016, William Collins

授業時間外の学習

Preparation of handouts and references

その他特記事項

科目名: Modern Japanese History**担当教員: マサレラ デレク ピーター**

履修年度: 2019 学期: 後期

開講曜日時限: 水2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

No requirement.

授業の概要

Modern Japanese History. The territorial disputes between Japan and China and Korea and the election of a right-wing LDP government in 2012 and 2014 that advocates 'nationalist' policies at home and abroad, remind us of the necessity to understand the historical relations between these three very important global powers. This class will focus on Japan's modern history within the context of east Asian history and, more broadly, within the context of Euro-US-Asian relations, especially from the middle of the nineteenth century. The essential point of this class is that a proper understanding of Japan's present global situation must be based on knowledge and understanding of history.

科目目的・到達目標

To examine Japan's foreign relations in historical perspective.

授業計画

We will examine and discuss subjects which relate to the main theme of the class. These subjects will include the Meiji Restoration; Japan's relations with east Asia; Japan's relations with Europe and the United States; and the Japanese empire 1895-1945. This class will be conducted more as a seminar than as a lecture class. The syllabus is quite flexible:

Week 1: Introduction and Japan's foreign relations in the early nineteenth century..

Weeks 2-3: The fall of the Tokugawa.

Weeks 4-5: The Meiji Restoration.

Weeks 6-7: The Meiji State.

Weeks 8-9: Japanese imperialism.

Weeks 10-11: The Japanese empire: Korea.

Weeks 12-13: The Japanese empire: Taiwan and Manchuria.

Week 14: Conclusions.

Students will be given material which they must read at home and which will be the starting point for discussion in class the following week. Students are also free to suggest topics which they are interested in and would like to study. It is intended that this class will be very much discussion-driven.

成績評価方法

Active participation in class 50 percent;

One report 50 per cent.

テキスト・参考文献等

Students will be given material which they should read at home and which will be the starting point for discussion in class the following week. Recommended background reading:

Marius B. Jansen, *The Making of Modern Japan*, Cambridge MA, 2000.

Kenneth Pomeranz, *The Great Divergence*, Princeton, 2000.

John Darwin, *After Tamerlane*, London, 2007.

Ronald Finlay and Kevin H. O'Rourke, *Power and Plenty*, Princeton, 2007.

授業時間外の学習

Students will be given material which they must read at home and which will be the starting point for discussion in class the following week.

その他特記事項

The purpose of the class is to stimulate discussion and debate. Therefore, students should be prepared to ask questions and engage in discussion.

科目名: Artificial Intelligent Economics

担当教員: 有賀 裕二、喜多 一、
小山 友介、谷口 和久、
出口 弘、寺野 隆雄、中
島 義裕、森 直樹

履修年度: 2019 学期: 前期

開講曜日時限: 木4

配当年次: 1年次配当

参考URL: <http://www.u-mart.org/html/index.html>**履修条件・関連科目等**

Requirements to join in this lecture are not specified.

授業の概要

The U-Mart System is an artificial intelligent market system to implement a virtual futures market with reference to the actual stock price index arbitrarily chosen, by the use of agent-based simulation techniques. This system, mutatis mutandis, contains a spot market trading as a special case. It is also noteworthy to point out two outstanding features of the U-Mart system. First of all, any agent, either machine or human, does not presume a certain personal rational demand function in advance. Secondly, this system adopts a hybrid approach in a sense that a human agent can always join in the machine agent gaming setting. The latter is a technological feature, a new network innovation of artificial intelligent market system. The former is featured by an alternative approach to the neoclassical method.

科目目的・到達目標

We use a platform called "U-Mart system" in order to study Artificial Intelligent Market. This AI market simulator in essence is actually the same as the existing index futures trading at Osaka Stock Exchange (OSE). It is noted that the idea of U-Mart preceded the actual one. This simulator at its origin equipped with a hybrid transaction of human and algorithmic agents. The latter can imitate a so-called high frequency transaction (HFT) by the acceleration experiment. So U-Mart is a progressive simulator to imitate the reality.

First of all, we should state our U-Mart project. Originally in 1998 U-Mart Project started as V-Mart (Virtual Mart). Now it however becomes re-nominated U-Mart. The U-Mart Project has published an English textbook (Shiozawa et. al. 2008) as one of Springer Series on Agent Based Social Systems in Spring 2008. The development of the U-Mart system during these 10 years rather was mainly engineers-driven. Now the U-Mart system is internationally recognized as a good platform for AI markets. Our project has now marked Version 4 which could be compatible with spot and futures market as well as batch and double auction.

Our U-Mart Lectures consists of two parts: one is this class. The other is the class for experiment, or training program. Both lectures normally are integrated into a single Aims and Scope of U-Mart lectures. So you are recommended to join into both classes of Artificial Intelligent Economics and Artificial Intelligent Market Experiment.

授業計画

This class will refer to the theories of the market mechanism or auction of the financial market. In particular, U-Mart simulator imitates the fundamental profile of Tokyo Stock Exchange (TSE) as well as Osaka Stock Exchange (OSE). Now TSE and OSE are integrated into Japan Exchange Group. We will learn two methods of dealing: Itayose (Batch Auction) and Zaraba (Continuous Double Auction). The institutional settings in TSE is also explicated. Moreover, you will learn the agent based simulation in general on which the U-Mart simulator is based.

1. Introductory Guidance of AI market
2. (Prof. Yoshihiro Nakajima, Osaka City University) Introduction to the U-Mart System
3. (Prof. Yusuke Koyama, Shibaura Institute of Technology) Institution of Futures Market
4. (Prof. Kazuhisa Taniguchi, Kinki University) Market and pricing
5. (Prof. Naoki Mori, Osaka Prefectural University) Elementary Introduction of JAVA programming
6. (Prof. Yoshihiro Nakajima) Random Walk and Time Series Analysis of Prices
7. A Short Tour to Tokyo Stock Exchange
8. A Short Tour to AI Laboratory of Tokyo Institute of Technology
9. (Prof. Hajime Kita, Kyoto University) Review on the Standard Agent Set of the U-Mart System
10. (Prof. Yoshihiro Nakajima) Phase Transition and Power Law Distribution
11. (Prof. Hiroshi Deguchi, Tokyo Institute of Technology) A New Application of Gaming Simulation
12. (Prof. Takashi Yamada, Yamaguchi University) The Analysis of Price Time Series
13. (Prof. Naoki Mori, Osaka Prefectural University) JAVA Programming of U-Mart Machine Agent
14. (Prof. Takao Terano, Tokyo Institute of Technology) A New Application of Agent Base Simulation
15. Summing up

成績評価方法

Two ways for grade the credit:

1. Do a paper on the given subjects.
2. Days attended

テキスト・参考文献等

Y. Shiozawa, Y. Nakajima, H. Matsui, Y. Koyama, K. Taniguchi, and F. Hashimoto, Artificial Market Experiments with the U-Mart System, Springer ABSS Series Vol. 4, 2008, Springer-Verlag;
Kita, Hajime, Taniguchi, Kazuhisa, Nakajima, Yoshihiro (Eds.) Realistic Simulation of Financial Markets: Analyzing Market Behaviors by the Third Mode of Science, Springer Evolutionary Economics and Social Complexity Science, Vol. 4, forthcoming, 2017

授業時間外の学習

You will be allocated the original materials each opportunities. After each lecture, you are obliged to check the materials. It is also recommended to read the textbooks for U-Mart.

その他特記事項

This class is given conjointly in association with the lecture titled Artificial Intelligent market Experiment.

科目名: Artificial Intelligent Market Experiment

担当教員: 有賀 裕二、喜多 一、
小山 友介、谷口 和久、
出口 弘、寺野 隆雄、中
島 義裕、森 直樹

履修年度: 2019 学期: 前期

開講曜日時限: 木5

配当年次: 1年次配当

参考URL: <http://www.u-mart.org/html/index.html>**履修条件・関連科目等**

Requirements to join in this lecture are not specified.

授業の概要

The U-Mart System is an artificial intelligent market system to implement a virtual futures market with reference to the actual stock price index arbitrarily chosen, by the use of agent-based simulation techniques. In our experiments, we will have not only the training program for dealings as a human agent in the futures market but also for making a machine agent by JAVA programming. Our program is quit rudimentary only for beginners. . So we encourage you to join in our classes.

科目目的・到達目標

We use a platform called "U-Mart system" in order to study Artificial Intelligent Market. This AI market simulator in essence is actually the same as the existing index futures trading at Osaka Stock Exchange (OSE). It is noted that the idea of U-Mart preceded the actual one. This simulator at its origin equipped with a hybrid transaction of human and algorithmic agents. The latter can imitate a so-called high frequency transaction (HFT) by the acceleration experiment. So U-Mart is a progressive simulator to imitate the reality.

First of all, we should state our U-Mart project. Originally in 1998 U-Mart Project started as V-Mart (Virtual Mart). Now it however becomes re-nominated U-Mart. The U-Mart Project has published an English textbook (Shiozawa et. al. 2008) as one of Springer Series on Agent Based Social Systems in Spring 2008. The development of the U-Mart system during these 10 years rather was mainly engineers-driven. Now the U-Mart system is internationally recognized as a good platform for AI markets. Our project has now marked Version 4 which could be compatible with spot and futures market as well as batch and double auction.

Our U-Mart Lectures consists of two parts: one is this class. The other is the class for experiment, or training program. Both lectures normally are integrated into a single Aims and Scope of U-Mart lectures. So you are recommended to join into both classes of Artificial Intelligent Economics and Artificial Intelligent Market Experiment.

授業計画

The U-Mart learning will be constructed by the next parts.

- I. The introductory lessons for training market trades as a human agent
- II. The network experiments for human trading
- III. The introductory lessons for JAVA programming for making a machine agent
- IV. The network experiments for machine agents

The latter parts of III and IV seem advanced. The learning of the latter parts depend on the ability of participants. So we will mainly concentrate the first parts I and II in our lessons.

1. Introductory Guidance of the U-Mart System
2. (Prof. Yoshihiro Nakajima, Osaka City University) Play the elementary experiment
3. (Prof. Yusuke Koyama, Shibaura Institute of Technology) Play the traditional version of Itayose (Batch Auction)
4. (Prof. Kazuhisa Taniguchi, Kinki University) Learn the Analysis of the Market Experiment in the case of Itayose (Batch Auction)
5. (Prof. Naoki Mori, Osaka Prefectural University) Play the traditional version of Zaraba (Double Auction)
6. (Prof. Yoshihiro Nakajima) Learn the Analysis of the Market Experiment in the case of Zaraba (Double Auction)
7. A Short Tour to Tokyo Stock Exchange
8. A Short Tour to AI Laboratory of Tokyo Institute of Technology
10. (Prof. Yoshihiro Nakajima) An elementary method to design the market simulation by the use of the Excel sheet
11. (Prof. Hiroshi Deguchi, Tokyo Institute of Technology) A New Application of Gaming Simulation (continued from the last lecture unit)
12. (Prof. Takashi Yamada, Yamaguchi University) The Analysis of Price Time Series (continued from the last lecture unit)
13. (Prof. Naoki Mori, Osaka Prefectural University) Try to make a new machine agent
14. (Prof. Takao Terano, Tokyo Institute of Technology) A New Application of Agent Base Simulation (continued from the last lecture unit)
15. Summing up

成績評価方法

Two ways for grade the credit:

1. Do a paper on the given subjects.
2. Days attended

テキスト・参考文献等

Y. Shiozawa, Y. Nakajima, H. Matsui, Y. Koyama, K. Taniguchi, and F. Hashimoto, Artificial Market Experiments with the U-Mart System, Springer ABSS Series Vol. 4, 2008, Springer-Verlag;
Kita, Hajime, Taniguchi, Kazuhisa, Nakajima, Yoshihiro (Eds.) Realistic Simulation of Financial Markets: Analyzing Market Behaviors by the Third Mode of Science, Springer Evolutionary Economics and Social Complexity Science, Vol. 4, forthcoming, 2017

授業時間外の学習

Each virtual transaction experiment you should analyse the market result containing your own result. The analysis will improve your understand of the market transaction. The analytical method will be taught during a series of lectures step by step.

その他特記事項

This class is given conjointly in association with the lecture titled "Artificial Intelligent Economics" to understand the theories and institutions of the financial auction mechanism like Tokyo Stock Exchange.

科目名: Service Sciences and the Related Economic Matters

担当教員: 有賀 裕二、和泉 潔、井出 明、佐藤 浩、澤谷 由里子、田中 美栄子、橋本 敬、日高 一義、水田 秀行、水野 貴之

履修年度: 2019 学期: 前期

開講曜日時限: 火4

配当年次: 1年次配当

参考URL: <http://www.thesrii.org/>**履修条件・関連科目等**

Requirements to join in this lecture are not specified.

授業の概要

Service Science is a new field developed by the initiative of IBM since 2004, in particular, Almaden Research Center. Now many universities and institutions created the programs specialized for this filed. This is a study of business methods to create and capture value, technology tools to reengineer processes and organizational culture to motivate and align people, and their collective impact on evolution of effectiveness and efficiency in the performance of services. Incidentally, we invite active (or former) senior researchers from IBM Research - Tokyo and eminent professors from universities (University of Tokyo, or Tokyo Institute of Technology, for example), who are committed to studying service sciences. Incidentally, this is a serial lecture of various visiting lectures, though Yuji Aruka, the coordinator, always gives guidance and introduction in advance, as well as comments in the classroom.

科目目的・到達目標

We aims at understandings on "services" as decisive factor in the modern mode of production. We have several newly added modern features on our society and economic system. One feature is that our society is dominated by Information and Communication Technologies (ICT). In ICT field, it is needless to say that the idea of "service" is decisively important. Another is that the service class of the society is newly emerging. The new class is also getting powers to the new society. These points of view will suggest a new science, a new service innovation, and also provide you with a new idea of social system design. See the URL of Service Research and Innovation Institute (for Deriving Innovation for IT Enabled Services): <http://www.thesrii.org>

授業計画

The class plan will be arranged in the following manner:

1. What is Service Science?
2. Analyzing the main characteristics of the economy of service providing activities by agent-based modeling or econophysics.
3. Analyzing some human behavior in service related matters.
4. The tourism in view of service science

In details as follows:

1. Introductory Guidance of Service Science
2. (Prof. Kazuyoshi Hidaka, Tokyo Institute of Technology, a former manager of IBM Research) A General theory of Service Science
3. (Dr. Hideyuki Mizuta, Senior Researcher, IBM) Service Science and Big Data Application
4. (Prof. Sawatani, Tokyo University of Technology, formerly an IBM researcher) Service Science and Its Development
5. (Prof. Yuriko Sawatani, Tokyo University of Technology, formerly an IBM researcher) Service Science and Its Innovation
6. (Professor Hiroshi Sato, National Defense Academy) Service Science and Machine Learning
7. (Professor Kiyoshi Izumi, University of Tokyo) Data/Text Mining in the Financial System,
8. (Prof. Takayuki Mizuno, National Institute of Informatics) Econophysics
9. (Professor Takashi Hsahimoto, JAIST) Knowledge Science
10. (Professor Takashi Hsahimoto, JAIST) Language Game
11. (Professor Mieko Tanaka, Meiji University) Randomness Test, and Visualization of Big Data
12. (Professor Mieko Tanaka, Meiji University) Financial System in view of Big Data
13. (Prof. Akira Ide, Otomon Gakuin University) Tourism as Service Science
14. (Prof. Akira Ide, Otomon Gakuin University) Dark Tourism

成績評価方法

Two ways for grade the credit:

1. Do a paper on the given subjects.
2. Days attended

テキスト・参考文献等**授業時間外の学習**

The distributed materials brought by lecturers should be carefully kept. Each time when lecture is finished, you should make your short comment/opinion to the lecture.

その他特記事項

科目名: COMMUNITY PSYCHOLOGY

担当教員: 笹尾 敏明

履修年度: 2019 学期: 夏季集中

開講曜日時限: 他

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

This course assumes that students are fairly motivated and in good academic standing, having already taken some of the following courses: Introductory Psychology and possibly other courses in psychology.

授業の概要

Because of our societal concerns about the rising rate of social problems, the application of psychological knowledge and methods has grown tremendously in recent years. Psychologists have begun to do research and offer policy recommendations on many real

科目目的・到達目標

Course Objectives

(a) to develop an understanding of the role of social-historical factors in the development of community psychological perspectives;

(b) to develop a working knowledge of different theoretical approaches for prevention of social and psychological problems in the community and begin to think about how these can be practically implemented;

(c) to understand and critically analyze the community psychological research literature; and

(d) to acquire basic research skills necessary for community-based research in developing and evaluating prevention interventions.

授業計画

Please note that the following schedule pertains to the 2013 schedule so it is subject to change.

Session #1: Introduction & Course Overview: Before Our Trip
Session #2-3: What is Community Psychology?: History, Values, & Assumptions
Session #4: Embracing Social Change
Session #5: Empowerment and Community Participation Approaches
Session #6-7: Ecological and Environmental Approaches
Session #8: Approaching and Affirming Human Diversity
Session #9-12: Prevention, Strengths and promotion Approaches
Session #13: Stress and Coping Strategies: A Community Psychology Perspective
Session #14: Community Psychology into the New Era?

成績評価方法

テキスト・参考文献等

A course reader consisting of the articles and book chapters will be provided as a set of pdf files. Also, the following is highly recommended for the course: Shinn, M. & Thaden, E. (2010). Current directions in community psychology: Readings from the Ass

授業時間外の学習

Students are expected to engage in serious review of the course materials before and after each class session outside of classrooms, and to complete all the course assignments before due dates.

その他特記事項

Late submission of Assignments. As a rule, no late submissions are accepted. However, for any reasons discussed with the instructor and/or in cases of emergencies (e.g., car/scooter/bike accidents, arrest, death of relatives), an extension of assignments

科目名: **ACADEMIC WRITING AND PRESENTATION SKILLS IN PSYCHOLOGY**

担当教員: 笹尾 敏明

履修年度: 2019 学期: 冬季集中

開講曜日時限: 他

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Desired Preparations (if not prerequisites): Well-versed in the basic foundations of univariate and multivariate statistics; basic skills in writing in English; and capacity and skills to do data-analytic skills in quantitative data analysis with access to some quantitative data.

授業の概要

This course is taught mostly in English; however, some Japanese may be used if need be.

科目目的・到達目標

This course is designed to provide an advanced, rigorous introduction to academic writing and presentation skills in the behavioral and social sciences. The major goal of the course is twofold: (a) to become comfortably familiar with academic writing in professional journals and oral presentation skills at conferences and/or professional meetings and (b) to provide opportunities to practice such skills in the classroom setting. The language of instruction is primarily English with some Japanese if necessary. Throughout the term, students are expected to participate actively in classroom activities (e.g., presentation, critiques, discussion), to complete weekly exercises and other requirements.

Focusing on professional articles and other academic papers using experimental and survey methods, the writing guidelines found in the Publication Manual of the American Psychological Association (6th edition) (APA, 2010) will be followed for writing purposes. Please note that this course is not about how to translate your already-written Japanese articles into English, nor is it an English composition class typically offered through the language department. Please note also that it is not the purpose of this course to edit your completed or co-authored paper with your faculty advisor or your significant other (whoever that is).

授業計画

Please note that since this course will be offered as an winter intensive course, the following is likely to change as necessary.

Session #1: Introduction & Overview
 Session #2: Optimizing the Quality of Your Paper (& Acceptance of Your Paper!) & Writing in APA Style
 Session #3: Issues in Academic Writing for Non-native Speakers of English
 Session #4 & 5: Writing Your "Introduction" (incl. Literature Review) and "Method" sections
 Session #6: Writing Your "Results" section
 Session #7: Writing Your "Discussion" section
 Session #8: Writing Your Abstract and Coming up with an Effective Title
 Session #9-11: Learning how to do proofreading and revising your manuscript over and over again!
 Session #12: Peer Review practices
 Session #13: Preparing for Academic Presentation
 Session #14: Student Presentations

成績評価方法

1. One Full Report using APA style (and drafts) - 30%
One full report of your own concoction will be required. You might wish to use your own analyzed data to write this paper.
2. Mock Presentations - 10%
You will be doing at least two or three oral presentations in class in a mock conference context. Students' presentations will be video-recorded for post-class review.
3. Take-Home Exercises - 50%
You will be given a series of take-home exercises to complete on your own at home. The purpose of these exercises is mainly to develop a compendium of useful phrases extracted from relevant journal articles.
4. Class Participation & Attendance - 10%
Your active participation in class discussion is very important for the maximum gain from this class. Of course, your attendance is highly recommended. As we run this course mostly in English, it is important to use as much English as possible in communicating with each other.

テキスト・参考文献等

Please note that the following are highly recommended readings and internet resources for developing your skills in writing good journal articles and oral presentations. Nonetheless, the best strategy for better writing is to write even a single page everyday! The required readings are noted with a single asterisk(*), and highly recommended with two asterisks (**).

*American Psychological Association (2010). Publication manual of the American Psychological Association (5th ed.). Washington, D.C.: Author.

**American Psychological Association (2005). Concise rules of APA style. Washington, D.C.: American Psychological Association.

**Gelfand, H., Walker, C.J., & American Psychological Association. (2002). Mastering APA style: Student's workbook and training guide. Washington, D.C.: American Psychological Association.

**Gowers, E. (1973). The complete plain words (revised by Bruce Fraser). London: Her Majesty's Stationery Office.

**Kupfersmid, J. & Wonderly, D.M. (1994). An author's guide to publishing better articles in better journals in the behavioral sciences. Brandon, VT: Clinical Psychology Publishing Co. (out of print?)

*Miller, J.E. (2005). The Chicago guide to writing about multivariate analysis. Chicago: The University of Chicago Press.

*Nicol, A.A.M., & Pexman, P.M. (1999). Presenting your findings: A practical guide for creating tables. Washington, D.C.: American Psychological Association.

**Nicol, A.A.M., & Pexman, P.M. (2003). Displaying your findings: A practical guide for creating figures, posters, and presentations. Washington, D.C.: American Psychological Association.

*Silvia, P.J. (2007). How to write a lot: A practical guide to academic writing. Washington, D.C.: American Psychological Association.

*Strunk, W., Jr., & White, E.B. (2000). The elements of style (4th ed.). New York: Longman

授業時間外の学習

Students are expected to engage in pre- and post-session review of all course materials, and actively participate in class activities.

その他特記事項

科目名: 英語表現演習 I**担当教員: マシューズ ジョン**

履修年度: 2019 学期: 前期

開講曜日時限: 木1

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

特になし。

授業の概要

This is an advanced course in academic writing. Students will learn how to follow all of the standard rules for preparing a manuscript for scholarly publication and thesis submission. By the end of the course, they will have developed an explicit understanding of the steps necessary for preparing a complete research paper, ready for submission to a journal, conference proceedings, or as a dissertation.

科目目的・到達目標

By first reading published articles and carefully examining them not for their content but for their structure and organization, students will learn to distinguish well written texts from poorly structured writing. Then, through a series of writing exercises, students will produce successive drafts of increasing completeness. Students will learn to offer constructive criticism of the writings of others and how to accept criticism on their own writing.

授業計画

1. Academic writing and the organization of texts
2. Scholarship, attribution, and plagiarism
3. Gathering materials: Using databases and other library resources
4. Previous research and literature review
5. Summarizing and synthesizing information
6. Presenting your own contribution
7. Word-processing software and writing tools
8. Outlines and organization before writing
9. Producing a first draft
10. Presenting data in graphs, tables, and figures
11. Rewriting, revising, and proofreading
12. Formatting a final draft
13. Incorporating feedback from peer review
14. Summary and review

成績評価方法

- 10% Participation
- 50% Writing assignments
- 40% Term paper

テキスト・参考文献等

"Scientific Research Writing: For non-native speakers of English," by Hilary Glasman-Deal. London: Imperial College Press. ISBN: 978-1-84816-310-2

授業時間外の学習

This course provides a general guide to scholarly writing, which will require students to complete reading assignments from the text as well as associated writing exercises. In order to learn the appropriate methodology for organizing texts involved in a student's own sub-field, he or she must also identify and analyze relevant papers from the research literature.

その他特記事項

科目名: 英語学研究(音声学・音韻論Ⅱ)A

担当教員: マシューズ ジョン

履修年度: 2019 学期: 前期

開講曜日時限: 水3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

特になし。

授業の概要

This course is a graduate level introduction to phonetic science. It begins with the precise descriptions of articulatory phonetics as the basis for distinctive features that are used for distinguishing speech sounds from one another. Then, the focus moves to the acoustic properties of sound in general and then the characteristics of human speech in particular. Students will learn how to measure and analyze these acoustic properties using the phonetic analysis software Praat and then apply the techniques they have learned to the measurement of duration, intensity, pitch (fundamental frequency), formant frequencies, formant transitions, stop bursts, and Voice-Onset Time (VOT). The course ends with the application of phonetic analysis techniques to issues in second language (L2) phonetics.

科目目的・到達目標

This course introduces students to the scientific analysis of speech sounds. Students will learn to apply theoretical descriptions to familiar and unfamiliar data sets from English, Japanese, and other languages. They will become proficient in measuring the acoustic properties of speech with the phonetic analysis software Praat (no prior experience with computing is required). Students will also gain an understanding of the fundamentals of speech perception and the interaction between how speech sounds are heard and how they are produced. Finally, students will learn to apply their knowledge of phonetics to issues in second language speech, including their own spoken English and/or other non-native language(s).

授業計画

1. Overview and outline of the course
2. Articulatory phonetics
3. Distinctive feature theory
4. Segmental inventories
5. Acoustics of speech
6. Acoustic phonetics
7. Phonetic analysis - Praat
8. Measuring VOT and vowel length
9. Measuring C-V and V-C transitions
10. Pitch, stress, and intonation
11. Speech perception
11. Perceptual assimilation model (PAM)
13. L2 phonetics
14. Summary and review

成績評価方法

- 10% Participation
- 20% Problem sets
- 20% Acoustic analysis assignments
- 20% Written homework exercises
- 30% Final project

テキスト・参考文献等

Materials to be provided by the instructor.

授業時間外の学習

In addition to reading material to support and extend the contents presented in lectures, there will be data analysis problems and speech analysis assignments that must be completed outside of class time.

その他特記事項

科目名: 英語学研究(音声学・音韻論Ⅱ)B**担当教員: マシューズ ジョン**

履修年度: 2019 学期: 後期

開講曜日時限: 水3

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

特になし。

授業の概要

This course provides a thorough introduction to the phonology of English and a general introduction to theoretical phonology. Starting with individual speech sounds and the features that define them, we will study the distributions of vowels in consonants across the world's languages and then across the dialects of English spoken around the world. We will then study the rule-based framework that guided most of linguistic research in the 20th century. This will give way to the representation centered approach of feature geometry. Then, we will study the prosodic hierarchy including syllables, feet, and prosodic words. Finally, we will study the constraint-based approach to phonology that has largely dominated the field during the 21st century, focusing specifically on Optimality theory.

科目目的・到達目標

Through this course students will learn techniques for theoretical analysis of phonological data. They will also have, by the end of this course, a fairly comprehensive understanding of the facts of English phonology. This will include the details of voicing and place assimilation, vowel laxing, unstressed vowel reduction, stress shift, and more. In addition, students will learn about the scientific process of theoretical advancement as we follow the historical changes as phonological theory shifted its focus from rules to representations to constraints.

授業計画

1. Phonology: The grammar of sounds in language
2. Phonetics: The sounds in spoken language
3. Distinctive feature theory
4. Segmental inventories
5. Dialects of English around the world
6. Rule-based phonology
7. Phonological operations
8. Feature Geometry
9. Syllable theory
10. Sound change in the history of English
11. Metrical theory
12. English stress patterns
13. Constraint-based phonology
14. Optimality theory

成績評価方法

- 10% Participation
- 30% Problem sets
- 30% Take-home test
- 30% Final report

テキスト・参考文献等

Materials will be provided by the instructor.

授業時間外の学習

There will be reading required outside of class time in addition to data sets that must be solved using the methods of analysis learned and practiced during class.

その他特記事項

科目名: 英語プレゼンテーションの技法**担当教員: 李 里花**

履修年度: 2019 学期: 後期

開講曜日時限: 土2

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

自己表現できるだけの英語力を有すること。TOEFL450点～500点以上が望ましい。

授業の概要

この授業は、自分の研究を英語で発表していくために必要となるスキルや考え方を習得するクラスです。英語で研究発表をするためには、英語独特の文章構造や論理的展開、文章表現を理解した上で、それを効果的にプレゼンしていく工夫が必要です。そのためこの授業では、まず英文プレゼンテーションの原稿を書きながら、文章の構成方法やプレゼン独特の英語表現を学びます。その上で、いかに論理的かつ魅力的にプレゼンできるか、英語プレゼンテーションの実践を想定した練習を繰り返し行います。

科目目的・到達目標

- ・英語プレゼンテーションの構成や技法について理解を深めること
- ・英語プレゼンテーションを論理的かつ効果的にプレゼンできる能力を身につけること
- ・自分の研究を英語でプレゼンテーションできること

授業計画

- 第1回 オリエンテーション、TEDに見る英語プレゼンテーションの特徴
 - 第2回 教科書 Unit 1 Let's get started, Unit 2 Today's topic is...
 - 第3回 教科書 Unit 3 My next slide shows, Unit 4 As you can see from this graph
 - 第4回 教科書 Unit 5 To sum up, Unit 6 Any questions?
 - 第5回 実践①研究紹介 (TED形式) 1回目報告
 - 第6回 実践①研究紹介 (TED形式) 2回目修正報告
 - 第7回 実践①研究紹介 (TED形式) 3回目最終報告
 - 第8回 実践②学会報告 (1) 1回目報告
 - 第9回 実践②学会報告 (1) 2回目修正報告
 - 第10回 実践②学会報告 (1) 3回目最終報告
 - 第11回 実践③学会報告 (2) 1回目報告
 - 第12回 実践③学会報告 (2) 2回目修正報告
 - 第13回 実践③学会報告 (2) 3回目最終報告
 - 第14回 総括・まとめ、最終プレゼン
- *履修者の人数や英語力によって進度が変わることがあります。

成績評価方法

平常点50%、プレゼン50%

テキスト・参考文献等

テキスト

Marion Gurssendorf, English for Presentations (Oxford Business English, Express Series) 2007, ISBN 978-0-19-457936-0,

参考文献

Adrian Wallwork, English for Presentations at International Conferences, Second Edition (Springer) 2016, ISBN 978-3-319-26328-1

授業時間外の学習

教科書の指定された箇所を事前に読み、問題を解いてくること。プレゼンテーションの原稿やヴィジュアルを準備すること。2時間～3時間程度。

その他特記事項

英語が得意でなくても、自己表現の英語力がある程度身につけていれば授業を履修できます。英語が得意であっても、得意でなくても、教科書を事前に必ず読み、問題を解き、原稿やヴィジュアルの準備に十分な時間をあててください。また原稿やパワーポイントを何度も加筆・修正するつもりで授業に参加してください。

科目名: 国際関係と外交 (Advanced Theories of International Relations)

担当教員: 泉川 泰博

履修年度: 2019 学期: 前期

開講曜日時限: 金4

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

学部レベルの国際関係論、国際政治学の基礎的知識および専門の論文を読む英語能力を身につけていること。

授業の概要

授業は全て英語で行う。各授業では、学生の発表をもとに教員が解説を加え、さらに全員でディスカッションを行っていく。学生は、担当する教科書の一部や論文についてレジュメを作成し、受講生に配布できるよう準備しておく。他の学生も毎回すべてのリーディングを行い、質問・コメントを用意しておく。

科目目的・到達目標

当該科目の目的は、国際関係理論および外交政策分析に関する大学院レベルの研究を行う上で必要最低限の概念的・理論的基礎を受講生に習得してもらうことにある。そのうえで、同分野における主な理論的論争や見解の相違についても紹介していく。

受講生は、当該科目を受講することで以下の目標を達成することが期待される。

- ①国際関係および外交政策立案に関する基本概念・理論を習得し、その特徴を理解する。
- ②国際関係に関する重要な理論的争点を理解し、議論できるようになる。
- ③自らの研究しようとする国際問題あるいは関心のある

授業計画

1. Orientation
2. Concept, Theory, and Paradigm: What is theory, causality, scientific progress?
3. Realism (1): Overview and Basic Concepts (Power, Anarchy, Security Dilemma, etc.)
4. Realism (2): Structural Realism and After
5. Liberalism (1): Economic Interdependence, Domestic Politics, and Neoliberal Institutionalism
6. Realism vs. Liberalism: Game Theories and Cooperation/Conflicts in International Relations
7. Formal Model Theories and International Relations
8. Summary So Far
9. Constructivism (1): Overview
10. Constructivism (2): System, Norms, Actors
11. Critical Approaches
12. Student Presentations 1
13. Student Presentations 2
14. Conclusion

成績評価方法

授業参加50%、期末レポート50%

授業参加については、作成したレジュメ、発表および授業中の発言（回数及び授業への貢献度）で評価する。期末レポートは、授業で扱った理論などに関する批判的考察、あるいは学生が教員の許可を得て選んだ国際政治・国際関係上の問題を理論的に分析したものを提出する。

テキスト・参考文献等

テキスト 特に指定しない。必要に応じて英語の文献（全て英語の学術テキスト・論文）を配布。

授業時間外の学習

学生は、課題の読書を精読し、授業で議論できるように準備するとともに、日頃からCNN, FOX Newsや海外の新聞を見たり読んだりして、国際情勢を認識しておくこと。

その他特記事項

科目名: 連続体力学**担当教員: 堀 宗朗**

履修年度: 2019 学期: 前期

開講曜日時限: 火1

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

線形代数と微分方程式の基礎知識が必要である。やや高度であるが、微分幾何学と変分法の基本を把握しておくことが望ましい。

授業の概要

連続体力学を支える物理と数理の基本的事項を整理した後、連続体力学の基礎と応用を概説する。基礎では構造力学を連続体力学の枠組みで再構築することを行う。応用では破壊・波動問題を取り上げ、また、解析力学の枠組みでみた連続体力学も紹介する。

科目目的・到達目標

基礎となる数理と物理に基づいた、連続体の力学の基礎を体系的に理解することが目的である。構造力学が連続体力学の問題の実用的な解法であることが理解できることが望ましい。また、破壊、波動等の連続体力学の応用の理解も目的とする。なお、応用力学以外の応用物理学への理解が容易となるよう、物理と数理をできるだけ区別することが望まれる。

授業計画

- 第1回 数理の準備 (1) : ベクトルとテンソル
- 第2回 数理の準備 (2) : フーリエ級数展開と離散化
- 第3回 力学の枠組み (1) : 変形・つり合い・材料
- 第4回 力学の枠組み (2) : 場の式, 支配方程式, 等価な問題
- 第5回 連続体の基礎 (1) : 力学の枠組みでみた連続体の物理 変形
- 第6回 連続体の基礎 (2) : 力学の枠組みでみた連続体の物理 つり合い
- 第7回 連続体の基礎 (3) : 力学の枠組みでみた連続体の物理 材料
- 第8回 連続体の基礎 (4) : 連続体の数理 支配方程式
- 第9回 連続体の基礎 (5) : 連続体の数理 ラグランジュアン
- 第10回 構造力学と連続体力学 (1) : 1次元問題
- 第11回 構造力学と連続体力学 (2) : 2次元問題
- 第12回 連続体力学の応用 (1) 破壊: 脆性破壊と延性破壊
- 第13回 連続体力学の応用 (2) 波動
- 第14回 連続体力学の応用 (3) ハミルトニアン

成績評価方法

宿題 (演習) とレポート

テキスト・参考文献等

下記, 参考文献として一読を薦める。

M. Hori, Introduction to computational earthquake engineering, 3rd edition, World Science, 2018.

授業時間外の学習

特になし。

その他特記事項

科目名: 応用認知脳科学

履修年度: 2019 学期: 前期

開講曜日時限: 月5

担当教員: 久徳 康史、檀 一平太

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

統計検定2級程度の統計的素養は必要。また、TOEIC700点程度の英語力は必須。受講希望者は英語力の証明を行なうこと。これらの条件を満たさない者は、履修前に要相談

授業の概要

本講義においては、全ての認知科学、脳科学研究における方法論的な基礎となる、多変量解析の英語テキストを毎回読み込んでいく。毎回、冒頭には講師による概説を行い、その後、前回に習得した内容について、受講者は簡単なプレゼンテーションを行う。さらに、関連するトピックが一段落した段階で、実際の英語原著研究論文において、どのような手法が用いられているか、方法論の解説を受講者自身が行う。

科目目的・到達目標

本講義の目的は、多様化する認知科学、脳科学分野において、いかなる応用にも耐えうる研究の基礎力を身につけることである。このため、認知脳科学分野の基礎となる多変量解析のテキストを習得する。

授業計画

- (1) 認知脳科学分野で使用する統計手法のレビュー1
- (2) 認知脳科学分野で使用する統計手法のレビュー2
- (3) Multiple regression 1
- (4) Multiple regression 2
- (5) Factor analysis 1
- (6) Factor analysis 2
- (7) Presentation 1
- (8) Structural equation modeling 1
- (9) Structural equation modeling 2
- (10) Presentation 2
- (11) ANCOVA/MANCOVA 1
- (12) ANCOVA/MANCOVA 2
- (13) Logistic regression
- (14) Presentation 3

成績評価方法

出席点、講義貢献点、発表点の総合評価によって決定する。

テキスト・参考文献等

Using Multivariate Statistics. Sixth Edition. By Tabachnick, B.G., Fidell, L. S., Pearson. 購入を推奨するが、必要箇所は抜粋して参照可能とする。ANOVAに関しては、別途、資料を配付予定。

授業時間外の学習

徹底した予習が必要。

その他特記事項

参加型の講義であるため、履修については事前に相談していただきたい。自身のPCにSPSSかSASをインストールしておくこと。

科目名: 応用心理学

履修年度: 2019 学期: 後期

開講曜日時限: 月2

担当教員: 久徳 康史、檀 一平太

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

心理学に関するリテラシーと統計検定2級程度の統計的素養は必要。また、TOEIC700点程度の英語力は必須。受講希望者は英語力の証明を行なうこと。これらの条件を満たさない者は、履修前に要相談

授業の概要

本講義においては、心理学的研究における方法論的な基礎となる、実験デザインと統計解析について、分散分析に主眼を置いて学習する。関連する英語テキストを毎回読み込んでいく。毎回、冒頭には講師による概説を行い、その後、前回に習得した内容について、受講者は簡単なプレゼンテーションを行う。さらに、関連するトピックが一段落した段階で、実際の実験データに基づき、それぞれが得意とするソフトウェアを用いて、方法論の解説を受講者自身が行う。

科目目的・到達目標

本講義の目的は、実験心理学やサイコメトリクスの基礎となる実験デザインと統計学的な基礎力を身につけることである。この習得を通じて、実践的な研究能力の向上を目指す。

授業計画

- (1) Review on statistical methods in psychological studies 1
- (2) Distribution
- (3) Review on basic statistical analyses
- (4) General linear model
- (5) ANOVA: one-way, randomized design
- (6) Presentation 1
- (7) ANOVA: one-way, repeated-measures
- (8) ANOVA: two-way, randomized design
- (9) ANOVA: further analyses
- (10) Presentation 2
- (11) ANOVA: two-way, repeated measures
- (12) ANOVA: mixed-model
- (13) Link to regression analyses
- (14) Presentation 3

成績評価方法

出席点、参加点、発表点を総合評価

テキスト・参考文献等

Experimental Designs Using Anova. By Tabachnick, B.G., Fidell, L. S., Duxbury Pr. 購入を推奨するが、必要箇所は抜粋して参照可能とする。

授業時間外の学習

講義で用いるテキストの読み込みは必須

その他特記事項

参加型の講義であるため、履修については事前に相談していただきたい。自身のPCにSPSS、SAS、MATLAB、Rなどの統計ソフトをインストールしておくこと。

科目名: 計算流体力学

担当教員: 櫻山 和男

履修年度: 2019 学期: 後期

開講曜日時限: 木1

配当年次: 1年次配当

参考URL: <http://www.civil.chuo-u.ac.jp/lab/keisan/index.html> kaz@civil.chuo-u.ac.jp

履修条件・関連科目等

「計算力学特論第一」を履修済みであることを前提に講義する。

授業の概要

計算流体力学 (Computational Fluid Dynamics) における各種離散化解析手法について講義する。なお、講義に関連した演習を随時行う予定である。

科目目的・到達目標

計算流体力学 (Computational Fluid Dynamics) における各種離散化解析手法の基礎について理解する。

授業計画

- 第1回 流れの支配方程式とその特徴・離散化解析手法
- 第2回 有限差分法 (1) : 差分近似 (空間・時間の離散化)
- 第3回 有限差分法 (2) : 安定化手法
- 第4回 有限差分法 (3) : 一般化座標
- 第5回 有限体積法 (1)
- 第6回 有限体積法 (2)
- 第7回 有限要素法 (1) : 移流拡散方程式
- 第8回 有限要素法 (2) : Navier-Stoke 方程式
- 第9回 有限要素法 (3) : 安定化有限要素法
- 第10回 有限要素法 (4) : 直接法と分離型解法
- 第11回 有限要素法 (5) : 要素の近似特性
- 第12回 乱流モデル、自由表面流れ
- 第13回 連成問題、並列計算法、
- 第14回 可視化手法、到達度評価とまとめ

成績評価方法

到達度評価 (授業内の一部で行う) 30%, 平常点 (レポート・出席) 70%

テキスト・参考文献等

- 参考書: 土木学会編「いまさら聞けない計算力学の常識」丸善(3,200円+税)
- 参考書: 竹内則雄, 櫻山和男, 寺田賢二郎著「計算力学」森北出版 (3,400円+税)

授業時間外の学習

毎回授業前にWebページに掲載する講義資料に必ず目を通して出席すること。復習は特に力を入れ、次回までに曖昧な事項や疑問点を持ち越さないようにする。課題でレポートの提出がある場合は、必ず期日までに作成し、提出すること。

その他特記事項

科目名： 洪水流の水利と河道設計**担当教員： 田端 幸輔**

履修年度：2019 学期：前期

開講曜日時限： 木3

配当年次：1年次配当

参考URL：

履修条件・関連科目等**授業の概要**

洪水流の水利現象に対して、現在までに、水理学で学んだ開水路基礎をベースとしたさまざまな解析手法が開発され、実際の河道設計に用いられている。この講義では、洪水流の水理解析手法の基本原則と河道設計への適用法を学ぶ。また、河川の合流や分派、構造物等さまざまな要素から構成された実河川の洪水問題への水理解析技術の応用や、河川構造物の水利的役割、今後の河道設計・河川管理技術の展望等について概説する。

科目目的・到達目標

目的：

現地河川で起こっている水利現象を理解し、河道設計に必要な技術を水利学的視点から学ぶことを目的とする。

到達目標：

洪水流の水理解析法の基本原則、河道設計の基本的考え方を理解すること。また、さまざまな水利的課題とその解決に向けたアプローチについて、自らの考えを説明できるようになることを目標とする。

授業計画

1. 河道設計の目的、意義
2. 洪水外力と河道の応答
3. 洪水水面形観測の目的と意義
3. 種々の洪水流解析手法とその適用範囲
4. 洪水流解析法(1)：一次元洪水流解析手法
5. 洪水流解析法(2)：平面二次元洪水流解析手法
6. 洪水流解析法(3)：準二次元洪水流解析手法
7. 河床変動解析法
8. 数値計算の基礎：河道の計算格子作成方法と留意点
9. 数値計算の基礎：基礎方程式の離散化
10. 数値計算の基礎：圧力の収束計算
11. 日本の河道計画の概要と河道設計の基本的考え方
12. 堤防の破壊機構と安全性評価
13. 日本の河川の様々な水利的課題と今後の河川技術の展望
14. 到達度確認と授業の総括・解説

成績評価方法

平常点40%，レポート点60%

テキスト・参考文献等

テキスト：福岡捷二著 洪水の水利と河道の設計法，2005，森北出版，ISBN-10：4627495714

参考文献：水利公式集（平成11年版）土木学会，ISBN：978-4-8106-0201-2

授業時間外の学習

毎回授業後にスライドをアップロードするので、1.5時間を目安に必ず復習し、必要に応じて学生同士でディスカッションすること。

本講義内容、洪水流の水利と河道の設計法をより深く学ぶためには原著論文を参考すること。原著論文は当研究室HPよりダウンロード可能である。

HP(<http://c-faculty.chuo-u.ac.jp/~sfuku/>)

レポート課題の作成時間は4時間程度を目安とする。

必ず参考文献の収集を行い、レポートに明記すること。

その他特記事項

科目名： 河川管理論**担当教員： 湯浅 岳史**

履修年度：2019 学期：後期

開講曜日時限： 水2

配当年次：1年次配当

参考URL：メールアドレス：takashi.yuasa@tk.pacific.co.jp

履修条件・関連科目等

特になし

授業の概要

日本および世界の河川、湖沼、海域等の水域管理の現状、課題、あるべき姿を学ぶ。事例を紹介し、問題の背景・原因を探り、問題解決方法を授業の中で考察する。取り扱う内容は、水質・水環境を中心に、水資源、治水、水文、水理、流域管理・流域水循環、気候変動影響 等である。現地調査も実施予定である。

科目目的・到達目標

科目目的：

日本および世界の河川、湖沼、海域における水域管理問題の事例を紹介し、問題の背景・原因を探り、問題解決方法を授業の中で考察する。

到達目標：

水域の諸問題の解決に資する知識・能力の習得を目指す。水環境工学、河川工学、水理学、水文学、生態学、物理学、化学、社会学、人文学、経済学、地理学等の広範な知識・経験を用いた、統合的なソリューションの提案力を身につける。

授業計画

- (1) 水環境
- (2) 水文・水理
- (3) 流域管理、水循環
- (4) 水質保全
- (5) 地下水
- (6) 水資源管理
- (7) 水辺利活用の促進
- (8) 気候変動による水環境影響
- (9) 世界の水環境・水管理
- (10) 治水対策
- (11) 水質保全計画の実践
- (12) 水辺生態系
- (13) 現地での事例研究① 河川・水辺利活用の促進
- (14) 現地での事例研究② 水域保全、流域負荷削減対策

成績評価方法

評価方法：レポート、平常点により総合的に評価する。レポート課題は事前に提示し、講義の中で発表し、講評する。
達成基準：水環境問題について問題要因を推定し、これに対する適切な対策を立案することができる。

テキスト・参考文献等

テキスト：毎週配布する資料

参考図書：

土木学会水工学委員会環境水理部会「環境水理学」、丸善出版、2015年発行、2400円

日本水環境学会編著「日本の水環境行政 改訂版」ぎょうせい、2009年発行、3500円

授業時間外の学習

授業時に出す課題について各自回答を準備し、翌回の授業に臨むこと。復習には力を入れ、次回までに曖昧な事項や疑問点を持ち越さないようにする。

その他特記事項

科目名: 沿岸防災学

担当教員: 有川 太郎

履修年度: 2019 学期: 後期

開講曜日時限: 月6

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

授業の概要

津波や高潮など自然外力から沿岸域をどのように防護するかということは、東日本大震災以降、大きく変化しつつある。そのなかで、本授業では、災害の歴史、被害のメカニズム、防護施設の役割などを学び、沿岸域における防護のあり方を議論する

科目目的・到達目標

沿岸域における防災のあり方を体系的に理解することを目的とする

授業計画

- (1) 自然災害における安全と安心
- (2) 津波災害の歴史とメカニズム(1)
- (3) 津波災害の歴史とメカニズム(2)
- (4) 高潮災害の歴史とメカニズム(1)
- (5) 高潮災害の歴史とメカニズム(2)
- (6) 自然災害と法律(1)
- (7) 自然災害と法律(2)
- (8) 津波・高潮からの避難(1)
- (9) 津波・高潮からの避難(2)
- (10) 津波・高潮災害からの復旧・復興(1)
- (11) 津波・高潮災害からの復旧・復興(2)
- (12) 津波・高潮災害に適応した沿岸のまちづくり(1)
- (13) 津波・高潮災害に適応した沿岸のまちづくり(2)
- (14) 津波・高潮災害に適応した沿岸のまちづくり(3)

成績評価方法

出席 30%、最終レポート70%

テキスト・参考文献等

- 「海岸—50年のあゆみ—」, 国土交通省河川局海岸室監修, 社団法人全国海岸協会, 2008年
「巨大地震・巨大津波—東日本大震災の検証—」, 平田直・佐竹健治・目黒公郎・畑村洋太郎 著, 2011年
「東日本大震災合同調査報告 共通編2 津波の特性と被害」, 東日本大震災合同調査報告書編集委員会 編
「人はなぜ逃げ遅れるのか」, 広瀬弘忠 著, 2004年
「防災人間科学」, 矢守克也 著, 2009年

授業時間外の学習

現場見学を予定する

その他特記事項

(前提知識)
数学(これまでに習った範囲全体)および水理系の科目(特に海岸・港湾工学)の内容を理解していると話が分かりやすい。ただし、必要な数学等については適宜復習もしくは補習する予定である。

科目名: 応用水環境システム工学**担当教員: 山村 寛**

履修年度: 2019 学期: 前期

開講曜日時限: 月5

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Taking the following classes is preferable for deeper understanding.

授業の概要

The advanced water environmental system engineering is aiming to gain your skills and knowledge about the next-generation water management, including water treatment technology and water basin control. First, the basic contents about water treatment technology will be reviewed. This will be very brief one, so if you feel the lackage of your knowledge, you have to catch up by reading textbooks.

The main contents of this study is the use of IoT technology for water treatment and water management. We will learn Brief Python languages with following one examples of neural network programming. This also will help you to lean the basic of machine learning. And the latter section of the class is to make your own deep learning program which is applicable to water treatment. I will provide you the dataset and you have to propose some ideas which enable the smart water management.

Finally, you will give a presentation to the water consulting company and they will give you a comment to brush up your ideas.

科目目的・到達目標

- (1) to understand basics about drinking water and wastewater management
- (2) to gain your programming skills of Python
- (3) to be able to suggest AI based management system
- (4) to overview future smart water technology

授業計画

- (1) Guidance and overlook of this course
- (2) Registration of your ID and review the current drinking water technology
- (3) Review the history of wastewater technology and current challenges
- (4) Overlook of the current innovative water treatment tehcnologies
- (5) Basics of the python language
- (6) Fundamentals of python languages
- (7) Neural network and their history
- (8) Deep leaning and their history
- (9) Listing up the Theme and examples
- (10) Exercisel
- (11) Exercise2 and presentation of your concept
- (12) Exercise3
- (13) Exercise 4 and presentation of your results
- (14) Final presentation to the consulting company

成績評価方法

Attendance and contribution to class with Q&A: 20%
Final presentation: 80%

テキスト・参考文献等

Text will be distributed with Manaba and printed paper.

授業時間外の学習

- (1) Catching up the basic knowledge about water treatment
- (2) Self study about python program

その他特記事項

This class will be given by English.
Basic English skills will be needed to catch up.

科目名: 環境・エネルギーシステム

担当教員: 落合 幸仁、阪口 圭一、
鈴木 康夫、鈴木 善三、
幡野 博之、松岡 慶

履修年度: 2019 学期: 前期

開講曜日時限: 木5

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

授業の概要

3.11以降のエネルギー供給状況を踏まえ、専任教員と兼任教員6名から主として再生可能エネルギーを利用していく上で重要な技術や基礎について学ぶ。具体的にはバイオマス資源の現状や維持・管理についての国際的な取り組み、地熱エネルギー、廃棄物処理設備の設計・製作、企業や国の研究所との共同研究成果の実用化といった内容について授業を行う。

これらは、単に机上の知識だけでは得られない各種ノウハウなども含めた内容のため、非常に貴重な経験となると考えている。

科目目的・到達目標

本科目では我が国で実用化されている環境エネルギーシステムを導入する場合の成立条件について理解できるようになることを目的とする。実用化する際の留意項目が自身の研究の中で活用できるようになることを到達目標とする。

授業計画

- (担当教員: 幡野博之)
- 全体概要説明と再生可能エネルギー利用のための熱力学 (外燃機関、内燃機関、風力、水力等の効率)
予習: 各種機関について概要を調べておく
復習: 各機関がどのような環境システムに使われているかまとめる
 - (担当教員: 落合幸仁)
2 森林系バイオマスの基礎 (日本や東アジア圏におけるバイオマス植生、維持、管理、賦存量)
予習: 本や東アジアにおける森林資源やその他のバイオマス資源にどのようなものがあるか調べておく
復習: 日本や東アジアにおけるバイオマス資源維持にかかる問題と解決策についてまとめる
 - (担当教員: 鈴木康夫)
3 我が国における廃棄物系バイオマス処理の現状
予習: 我が国における廃棄物やバイオマスのエネルギー化施設について調べる
復習: 学習した処理方法についてまとめる
 - 4 廃棄物系バイオマス処理装置 (燃焼装置: ストーカー炉、キルン炉、移動層炉、流動層炉)
予習: 廃棄物とバイオマスの燃料としての特徴について調べておく
復習: 燃焼装置形式の特徴をそれぞれまとめておく
 - 5 廃棄物系バイオマス処理装置 (ガス化炉、メタン発酵、藻類バイオマスなど)
予習: 燃焼装置との相違を調べておく
復習: 学習した装置に関する特徴を燃焼装置との相違も含めてまとめる
 - (担当教員: 松岡慶)
6 再生可能エネルギー源としての廃棄物発電の位置づけ
予習: 廃棄物発電の導入状況、規模、効率を調べておく
復習: 廃棄物発電について授業中に与えられた課題を解く
 - 7 廃棄物からの資源・エネルギー回収プロセスの事例
予習: 発電以外のプロセスについて調べておく
復習: 授業中に与えられた課題を解く
 - 8 海外での廃棄物発電の事例および国内との比較
予習: 海外の廃棄物発電の例を調べておく
復習: 我が国の廃棄物発電の特徴と海外の特徴についてまとめ、相違の要因について考察する
 - (担当教員: 鈴木善三)
9 燃焼炉における環境問題 NO_x、SO_x、N₂O、ダイオキシン
予習: NO_x、SO_x、N₂O、ダイオキシンについて問題になる点について調べておく
復習: 対策方法についてまとめ、それが、効率にどのような影響を及ぼすか考察する
 - 10 過給型燃焼炉による新規下水道汚泥焼却プラント開発
予習: 下水道汚泥焼却プラントの特徴について調べておく
復習: 過給型下水道汚泥焼却プラントの優れた点についてまとめる
 - 11 バイオマスのエネルギー化に関わる研究開発
予習: エネルギー化可能なバイオマスの存在量について調べておく
復習: どのようなエネルギー化方法が環境にとって良いかまとめる
 - (担当教員: 坂口圭一)
12 地熱開発の現状と我が国における賦存状況
予習: 日本における地熱エネルギー利用状況を調べておく
復習: 日本における実施例を調べ、特徴をまとめる
 - 13 地熱エネルギー探査技術
予習: 地熱資源の探査技術について調べておく
復習: 地熱エネルギー探査技術について日本独特の方法をまとめる
 - 14 地熱エネルギー利用技術
予習: 発電以外の地熱エネルギーの利用例について調べておく
復習: 最適な地熱エネルギーの利用方法について考察する

成績評価方法

担当教員毎に課す課題を総合して評価する

テキスト・参考文献等

担当教員が準備するテキストを使用

参考書 多田豊偏 化学工学 改訂3版 朝倉書店2008年発行、架谷昌信 監修 新編 化学工学 共立出版 2012年発行 3,800

円＋税

越智、老固、吉本共著 熱機関工学 コロナ社 機械系教科書シリーズ20 2006年発行

小山敏行 「熱力学 基本のき」初版 森北出版 2010年発行 2800円

越智敏明、老固潔一、吉本隆光「熱機関工学」初版 コロナ社 2006年発行 2600円

石田 愈 エネルギーシステム創造学 初版 オーム社 2004年発行

石田 愈 「基礎からの熱力学」 オーム社 2006年発行

授業時間外の学習

各担当教員が示す事前課題や授業中に提示する課題に必ず取り組むこと

その他特記事項

科目名： 環境情報処理・リモートセンシング**担当教員： 福田 朝生、村木 広和**

履修年度：2019 学期：前期

開講曜日時限：水6

配当年次：1年次配当

参考URL：

履修条件・関連科目等

数学的予備知識として、観測データの処理を行うため、最小二乗法に関する知識を持っておくこと。また、観測方程式を解くための非線形方程式を偏微分する知識も持つておくこと。

授業の概要

リモートセンシングでは、取得された衛星画像、航空写真、UAV等によるデジタル画像の幾何学的性質や歪み（レンズディストーション等）と、その補正法の補正法に関する方法の講義を行う、また、電磁波の概要及びスペクトル計測に関する講義並びに可視領域及び近赤外領域における分光放射計を使用した物質の反射率計測実習も行う。

応用として、マイクロ波センサーの概要や種類を理解し、リモートセンシングの基礎を作り、次に、最新の合成開口レーダ（SAR）画像の概要を説明し、SAR偏波と干渉の概要や利用に関する講義をし、フル偏波（8m分解能）を利用したSAR衛星画像判読実習を含める。有限差分法による水理解析の基礎と流れの可視化方法について学習する。

科目目的・到達目標

リモートセンシング技術および水理解析の基礎と応用を身につけ、将来、地理空間情報の利用促進を行い地球環境のモニタリングを行える技術者の育成を目標とする。リモートセンシング技術と写真測量技術の基礎を学び、新しいプラットフォームとしての無人航空機（UAV：Unmanned Aerial Vehicle）を用いて、水環境を地球規模から局所地域における河川、湖沼を含めた地域全体の水環境を時系列にモニタリングする技術を体系的に学び、水環境の変化を調査・分析するコンサルティング能力の基礎を身につけさせる。

授業計画

- (1) リモートセンシングの概論：リモートセンシングにおける基礎や代表的な利用例を講義
- (2) リモートセンシングの利用：リモートセンシング技術を用いた地図、災害モニタリング、環境モニタリングについて講義を行う。
- (3) リモートセンシングのプラットフォーム（人工衛星と航空機カメラ）の違いによる特色の講義
- (4) 近赤外分光技術に関する講義
- (5) 人工衛星と航空機カメラ、UAVカメラ等のセンサーを例に分解能にかんする講義
- (6) リモートセンシング画像の幾何学的処理の講義
- (7) リモートセンシング画像のラジオメトリック処理の講義
- (8) リモートセンシングを行う場合の衛星の選定と観測計画などの処理にかんする講義
- (9) SA合成開口レーダ（SAR：Synthetic Aperture Radar）の概論の講義
- (10) 合成開口レーダの画像の見方にかんする講義
- (11) 合成開口レーダの利用(1)：洪水モニタリング、地勢モニタリング、海洋モニタリングに関する講義
- (12) 合成開口レーダの利用(2)：農業分野でのモニタリングに関する講義
- (13) 合成開口レーダの新しい技術(1)：多偏波の利用に関する講義、干渉SARの利用に関する講義、フル偏波（HH、VV、HV、VH）8m分解能の画像を利用した実習
- (14) 有限差分法による水理解析に関する講義
3Dアニメーションによる流れの可視化法に関する講義

成績評価方法

出席率20%、試験80%（課題に対する各自の研究テーマ毎のレポート）：課題に関しては、その例を提示する。

テキスト・参考文献等**授業時間外の学習**

授業後に提示する次の課題等に関して、次回講義までに情報収集に取り組むこと。

その他特記事項

科目名: 応用空間情報科学

履修年度: 2019 学期: 前期

開講曜日時限: 火3

担当教員: 山田 育穂

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

Prerequisites: Students should have successfully completed at least one course on spatial information science and Geographic Information Systems (GIS). It is preferable that students have also completed "Urban Spatial Analysis."

「空間情報科学概論」「地理空間情報学」な

授業の概要

保健・医療の問題は空間情報科学の適用分野として近年注目が高まっている研究分野のひとつである。本講義では多様な事例を紹介しながら、空間情報科学の応用理論、方法論について理解を深めていく。本講義で扱う内容には、疾病地図と新しいGIS手法、健康リスクの地域格差に関する空間統計解析、GISによる医療施設の空間配置分析などが含まれる。ここで扱う理論や手法は、保健・医療以外の分野でも広く適用されているあるいは適用可能なものであり、学生個人の研究興味に応じてそれらを発展させていくことができるよう、データ解析演習などを通じて指導を行う。

なお、本講義を履修する学生は、基礎的な空間情報科学の知識とGISソフトウェアの基本的な使用法を修得している必要がある。

科目目的・到達目標

This course discusses advanced theories and methodologies of spatial information science, with specific focus on spatial statistical methods and their applications to medical and health related issues. Aside from lectures, students will be required to conduct a data analysis project that is related to topics to be covered in the course (*). Through the combination of lectures and the project, this course aims to develop a practical ability of students to apply lecture-based knowledge to real-world problems.

本講義では空間情報科学の応用的な理論や方法論を、特に空間統計学とその保健・医療分野への適用事例に着目した学びを通じて、習得することを目的とする。講義形式の授業に加えて、学生自らが講義内容に関連するトピックを選びデータ収集して仮説を検証するデータ解析演習を行う(※)。講義と演習との組み合わせにより、学んだ理論や技術を現実世界の問題へと適用することができる実践力を養うことを目指す。

* Students are encouraged to choose a theme of the data analysis project based on their own research interests. It does not have to be related to either medical or health issues.

※ データ解析演習のテーマは保健・医療分野に限らない。学生それぞれの研究興味に応じて選択することを推奨する。

授業計画

- (1) Introduction: Spatial information science for health studies
- (2) Review: Basics of spatial information science
- (3) Review: Basics of spatial statistics
- (4) Data Analysis Project (DAP) 1: Basics of ArcGIS (Review)
- (5) Disease mapping
- (6) Location analysis of medical/health facilities and services
- (7) DAP 2: Intermediate presentation
- (8) Human health and neighborhood environments
- (9) Spatial analysis of regional disparity of health risk
- (10) DAP 3: Data analysis
- (11) Spatial surveillance of disease and syndromes
- (12) Health service planning in developing countries
- (13) DAP 4: Paper writing
- (14) DAP 5: Final presentation

- (1) イントロダクション
- (2) 空間情報科学の基礎
- (3) 空間統計学の基礎
- (4) データ解析演習 1: ArcGISの基礎
- (5) 疾病地図
- (6) 保健・医療施設やサービスのロケーション解析
- (7) データ解析演習 2: 中間発表
- (8) 人間の健康と近隣住環境
- (9) 健康リスクの地域格差の空間解析
- (10) データ解析演習 3: データ解析
- (11) 疾病・症候群の空間サーベイランス
- (12) 途上国における保健医療サービス計画
- (13) データ解析演習 4: 英文レポート執筆
- (14) データ解析演習 5: 最終プレゼンテーション

成績評価方法

Data analysis project (presentation, report, etc.): 70%
Class participation: 30%

データ解析演習(プレゼンテーション、レポート、等): 70%
講義への参加・貢献: 30%

テキスト・参考文献等

To be announced in class.

授業内で適宜指示する。

授業時間外の学習

To be announced in class.

授業内で適宜指示する。

その他特記事項

This course will be taught in English. Please be aware that students are also expected to perform in English in this course.

科目名: 都市人間環境プロジェクト第二

担当教員: 志々目 友博、谷下 雅義、ホーテス シュテファン、鷺谷 いづみ

履修年度: 2019 学期: 冬季集中

開講曜日時限: 他

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

授業の概要

沿岸生態系に関する基本的見方および海外で始まっている生態学を踏まえた沿岸管理・再生、2) EcoDRRやEbA, 3) 生物多様性モニタリングの基本的な考え方などについての理解を深めるとともに、ラムサール条約に登録された志津川湾を有する宮城県南三陸町において、地元の方々とともに、ラムサール登録湿地の意義を現場で理解し、また持続可能な地域社会づくりのために、何をすべきか、について提案を行う。

科目目的・到達目標

生態系保全、経済循環、地域社会における文化の継承といった持続可能な社会のデザインについて、講義と現地調査（2020年2月28日～3月1日を予定）を通じて学ぶ。

授業計画

- 第1回 ガイダンスおよび生態学を踏まえた沿岸管理・再生
- 第2回 EcoDRR・EbA/生物多様性モニタリングの基本的な考え方
- 第3回 南三陸町の震災後の状況と現地調査についてのガイダンス
(以上、12月の火曜5時限を予定。2号館9階を予定)
- 第4, 5回 (以降、南三陸町にて) コクガンおよび沿岸生態系の調査
- 第6, 7回 藻場および水産業の調査
- 第8回 南三陸町ネイチャーセンターの取組み
- 第9回 イヌワシプロジェクト
- 第10回 BIO施設と循環型農業の見学
- 第11回 「ドイツにおける持続可能な地域づくりと生物多様性」について講義
- 第12回 プレーンストーミング: グループワーク課題の設定
- 第13回 グループワーク
- 第14回 プレゼンテーション

成績評価方法

グループワークの取組状況と課題発表

テキスト・参考文献等

鷺谷いづみ (2014) 「自然再生」中公新書
高橋誠(1999)「問題解決手法と知識」日経文庫
吉本哲朗(2008)「地元学をはじめよう」岩波ジュニア新書

南三陸町ネイチャーセンター
<https://www.town.minamisanriku.miyagi.jp/index.cfm/8,0,39,390,html>
南三陸町ネイチャーセンター友の会
<https://m-inuwashi.jp/>
南三陸町ラムサール条約
<https://www.town.minamisanriku.miyagi.jp/index.cfm/8,0,111,html>
南三陸町震災復興
<https://www.town.minamisanriku.miyagi.jp/index.cfm/6,html>

授業時間外の学習

毎回授業前にmanabaに掲載するレジュメに必ず目を通した上で出席すること。また、授業の最後に提示する課題に必ず取り組むこと。
地元の方々との交流も行います。

その他特記事項

移動や宿泊を伴うため費用がかかります(20000円程度)。詳細については初回授業時に案内します。

科目名: Academic Writing**担当教員: 西川 マリ**

履修年度: 2019 学期: 前期

開講曜日時限: 木4

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

学術的英語のライティングの基礎的スキルを修得していることを前提とする。

授業の概要

本授業(Academic Writing)は第1部と第2部から成ります。

第1部で学習する事は、学術文献検索のための最新のインターネットツールの使用法、参考文献をソフトウェア(reference management software)を用いて構築する方法、盗用や剽窃としない適切な引用法、などです。

第2部で学習する事は、学術研究論文(一般にIntroduction, Methods, Results, Discussionのセクションから構成される)の作成方法、明確で簡潔で論理的な文章の書き方、更に論文全体の流れを容易に把握できるような段落paragraphの分け方とセクションの分け方、などです。

科目目的・到達目標

主目標は「良い」英文を書けるようになることです。その目標達成のために、あなたのアイデアを系統立てて整理する最新の方法や、明快簡潔な英文の書き方や投稿規定の解釈の仕方などを学習します。これらを習得し論文が発表されれば、あなたの研究分野を発展させ、世界をより良いものにする可能性があります。

授業計画

- 第1回 Analyze structures of published research papers
- 第2回 Research the literature and gather resources
- 第3回 Organize resources in reference management software
- 第4回 Paraphrase and cite properly to avoid plagiarism
- 第5回 Specify the topic of research and write the aim and objectives
- 第6回 Write well-crafted paragraphs
- 第7回 Write paragraphs in an introduction section
- 第8回 Write paragraphs in a methods section
- 第9回 Craft complete tables and figures
- 第10回 Write paragraphs in results and discussion sections
- 第11回 Write a concluding paragraph
- 第12回 Write the abstract and title
- 第13回 Peer review papers
- 第14回 Revise paper according to reviewer comments

成績評価方法

クラス内活動(40%、出席率を含む)、課題レポート(60%)で、Academic Writing skillの理解度を評価する。

テキスト・参考文献等

授業で使用する「テキスト」

- (1) Robert A. Day, Barbara Gastel, 美宅 成樹
How to Write and Publish a Scientific Paper 6th ed.
世界に通じる: 科学英語論文の書き方: 執筆・投稿・査読・発表
ISBN: 9784621082249
- (2) Keith S. Folse, David Clabeaux, Elena Vestri Solomon.
From Great Paragraphs to Great Essays (Great Writing 3) 3rd ed.
Boston: National Geographic Learning, Cengage Learning; 2015.
Student book with online workbook, International edition.
ISBN: 9781285750736

自学用の「参考文献」

- (1) Joseph M. Williams
Style: Ten Lessons in Clarity and Grace
New York: Addison-Wesley Educational Publishers Inc. 1997
ISBN: 0-67398243-2
(Other editions available)
- (2) The Chicago Manual of Style, 16th ed.
Chicago: The University of Chicago Press
ISBN: 0-226-10420-6
- (3) Council of Science Editors
Scientific Style and Format: the CSE Manual for Authors, Editors, and Publishers. 7th ed.
Reston (VA): The Council; 2006.
ISBN: 0-9779665-0-X

授業時間外の学習

テキストは予習し、演習問題および宿題については解答を作成した上で出席すること。理解できなかったところは尋ねてください。本コースのために1週間あたり2時間を予習復習に割りあててください。

科目名： 有機金属化学特論第一**担当教員： 石井 洋一**

履修年度：2019 学期：後期

開講曜日時限： 火2

配当年次：1年次配当

参考URL：e-メール yo-ishii@kc.chuo-u.ac.jpホームページ <http://www.chem.chuo-u.ac.jp/~orgmet/top.htm>**履修条件・関連科目等**

学部での有機化学および無機化学の内容を前提知識とします。

授業の概要

有機金属化合物を利用することにより、通常の有機反応では行ない得ないようなさまざまな反応を進行させることができず。本講義では有機金属化合物の反応性の概説につづき、有機金属化合物、とりわけ多核錯体、クラスター錯体の合成と構造について解説します。また、有機金属化合物は均一系触媒として広く利用されています。本講義では、有機金属化合物の触媒作用がどのような素反応の組み合わせにより進行しているか、またその結果どのような特徴をもつ有機合成反応が実現できるのかを解説します。授業は原則として英語で行いますが、内容の理解を進めるため、テーマごとの解説と演習を組み合わせ実施します。

科目目的・到達目標

有機金属化合物の構造と反応性の基礎を理解し、それに基づいて、有機金属化合物を用いた代表的な触媒的有機合成反応の反応機構と特徴を理解することを目標とします。併せて、有機金属化合物の基礎的な理論を多核錯体、クラスター錯体へ拡張できることを学びます。

授業計画

- 第1回 有機金属化合物の構造の基礎：18電子則
- 第2回 有機金属化合物の基本的反応：配位子の置換、酸化的付加
- 第3回 有機金属化合物の基本的反応：挿入と逆挿入、 β 水素脱離
- 第4回 多核錯体、クラスター錯体の構造
- 第5回 多核錯体、クラスター錯体の合理的合成と反応性
- 第6回 有機金属錯体の動的挙動
- 第7回 遷移金属錯体の触媒反応：水素化と関連する諸反応
- 第8回 遷移金属錯体の触媒反応：ヒドロシリル化、水素移動反応
- 第9回 遷移金属錯体の触媒反応：ヒドロホルミル化とMonsanto法・Cativa法
- 第10回 遷移金属錯体の触媒反応：クロスカップリングとHeck反応
- 第11回 遷移金属錯体の触媒反応：アルケンの2量化、オリゴメリ化、重合
- 第12回 遷移金属錯体の触媒反応：アリル化とWacker反応
- 第13回 遷移金属錯体の触媒反応：カルベンおよびビニリデン錯体を經由する反応
- 第14回 理解度確認と解説

成績評価方法

講義中に行なう小テストの点数を40%、第14回に行なう理解度確認の結果を60%の割合で考慮して評価します。多核錯体、クラスター錯体を含む有機金属錯体の構造と動的挙動、性質、反応性の説明と、有機金属錯体を利用した触媒反応の機構についての基本的理解が要求されます。

テキスト・参考文献等

参考文献：J. F. Hartwig著、小宮三四郎ほか監訳 “ハートウィグ 有機遷移金属化学 上・下” 東京化学同人 2014年。
R. H. Crabtree, “The Organometallic Chemistry of the Transition Metals (Sixth Edition)” Wiley, 2014.

授業時間外の学習

各回のハンドアウトを復習し、演習問題ならびに小テストの内容について論理の展開が説明できるようにしておくこと。また、次回の講義内容に相当する参考文献の章に目を通しておくこと。

その他特記事項

科目名: 先端有機化学特論

履修年度: 2019 学期: 後期

開講曜日時限: 火1

担当教員: シン トニー クンミン

配当年次: 1年次配当

参考URL:

履修条件・関連科目等

学部において有機化学を履修し、単位を取得していること。

授業の概要

授業内容です。
英語版を読んでください

科目目的・到達目標

有機合成化学の基本的知識を習得し、理解を深め、自ら有機合成をデザインし実行できる能力を身に付ける。

授業計画

不斉有機触媒反応の紹介
英語版を読んでください。

成績評価方法

成績の判定は英語版を読んでください

テキスト・参考文献等

参考書: 英語版を読んでください

授業時間外の学習

学生は各クラスの前に講義ノートを読み、質問のリストを作ります。

その他特記事項

科目名: 応用化学特別講義第8

担当教員: バブ ムーシー

履修年度: 2019 学期: 夏季集中

開講曜日時限: 他

配当年次: 1年次配当

参考URL: https://onlinecourses.nptel.ac.in/noc19_mm08/preview**履修条件・関連科目等**

Knowledge on basics of rotation and vibration of molecules.
Diffraction, X-rays, Bragg's Law.

授業の概要

Physicochemical techniques for characterization of nanomaterials: The course will highlight the different spectroscopic techniques like Molecular, FT-Infrared, Raman, Nuclear Magnetic Resonance and Electron Spin Resonance for the understanding of the atomic and molecular spectroscopy. In addition, structural characterization of the materials with X-ray Electron and nuclear diffraction, especially Powder, single crystal and Laue diffraction techniques will be discussed in detail.

科目目的・到達目標

To learn advanced analytical methods used to analyze the materials, especially nanomaterials.
To know about qualitative and quantitative analysis techniques for understanding of the properties of nanomaterials
To understand the mechanical and thermal analytical techniques used to study the nanomaterials.

授業計画

- (1) Introduction to atomic and molecular spectroscopy
- (2) Fourier Transform Infrared Spectroscopy
- (3) Raman Spectroscopy
- (4) Application of other spectroscopic techniques
- (5) Introduction to X-ray diffraction
- (6) X-ray Powder Diffraction
- (7) Single crystal diffraction techniques and structure analysis

成績評価方法

Work sheets with objective and descriptive type questions

Grading: more than 90% Marks	"A" Grade.	(Outstanding)
Between 80-89 Marks	"B" Grade	
Between 70-79 Marks	"C" Grade	
Between 60-69 Marks	"D" Grade	
Below 60 Marks	"E" Grade	

テキスト・参考文献等

B.P. Straughan and S. Walker, Spectroscopy, Vol-I, Vol-II and Vol-III, Chapman Hall, London
B.D. Cullity and S.R. Stock Elements of X-ray Diffraction, Addison Wesley Inc., London,
Leonid V. Azaroff, Elements of X-ray Crystallography, McGraw Hill, New York
C. N. Banwell, Fundamental of Molecular Spectroscopy, McGraw-Hill, New York.

授業時間外の学習

Books related to Spectroscopy, Instrumentation Analysis and Diffraction methods.

その他特記事項

The course will provide knowledge and understanding on Techniques used for Analysis and Characterization of materials, specifically nanomaterials.

科目名: 応用化学特別講義第9

担当教員: バブ ムーシー

履修年度: 2019 学期: 夏季集中

開講曜日時限: 他

配当年次: 1年次配当

参考URL: https://onlinecourses.nptel.ac.in/noc19_mm08/preview

履修条件・関連科目等

Knowledge on fundamentals of optics and diffraction.

授業の概要

Imaging Techniques: The course will highlight on optical microscopy, electron microscopy and atomic force microscopy. Special attention will be given for principles, working and applications of Scanning electron microscopy, Transmission electron Microscopy and Scanning tunneling microscopy. Sample preparation, precaution and application of different types of samples for the analysis will be discussed in detail.

科目目的・到達目標

To learn and understand the non-invasive microscopic techniques such as optical and electron microscopy.
To learn and understand the invasive microscopic techniques such as atomic force microscopy
To understand the principles and working of various microscopes

授業計画

- (1) Optical microscopy
- (2) Introduction to Electron Microscopy
- (3) Scanning Electron Microscopy
- (4) Applications of Scanning Electron Microscopy
- (5) Fundamentals of Transmission Electron Microscopy
- (6) Applications of Transmission electron microscopy
- (7) Introduction to Atomic Force Microscopy

成績評価方法

Work sheets with objective and descriptive type questions

Grading: more than 90% Marks "A" Grade. (Outstanding)
Between 80-89 Marks "B" Grade
Between 70-79 Marks "C" Grade
Between 60-69 Marks "D" Grade
Below 60 Marks "E" Grade

テキスト・参考文献等

Joseph I. Goldstein, Dale E. Newbury, Joseph R. Michael, Nicholas W.M. Ritchie, John Henry J. Scott, David C. Joy, Scanning Electron Microscopy and X-Ray Microanalysis, Springer, New York

C. Barry Carter and David B. Williams, Transmission Electron Microscopy: A Textbook for Materials Science, Springer New York

Greg Haugstad, Atomic Force Microscopy: Understanding Basic Modes and Advanced Applications, John Wiley Inc., New Jersey

授業時間外の学習

Books related to Microscopes, Instrumentation Analysis methods.

その他特記事項

The course will provide knowledge and understanding on Techniques used for Imaging Analysis and Characterization of materials, specifically nanomaterials.