

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : AIP5000E

講義名[日本語(英語)] / Class Name : Introduction to Japan

担当者 (フルネーム) / Course instructor (Full Name) : PRESSELLO Andrea/PRESSELLO Andrea

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/木 Thu/3 木 Thu/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

The purpose of this course is to provide a basic understanding of Japan through the discussion of its history and culture. In particular, the course examines the major transformations, issues, and challenges faced by Japan from ancient times to today, exploring domestic socio-political-economic and cultural developments, as well as Japanese relations with the world. The following main questions will be addressed during the course: what are the important transformations in Japanese history and culture? What factors explain change and continuity? How has Japan interacted with other countries in the course of its history? Through this course, students can gain a basic understanding of some of the major historical and societal developments and policy issues in Japan, and can acquire the ability to identify and explain factors shaping major processes and decisions by Japanese leaders. Such learning also contributes to deepen understanding of contemporary Japan and its people. During the course, some videos will be shown and one or two classes will be held in the form of a field trip to a site related to the contents of the course.

[Related Diploma Policy (DP)]

ASEAN Initiatives Program DP4

④ Ability to build and develop friendly relations between Japan and ASEAN

[Course Goals]

Students can:

- understand issues and processes in Japan's history and society.
- develop the ability to identify and explain factors shaping Japanese leaders' choices, and their implications.

2. Course Outline :

- 1) Introduction
- 2) Understanding Japan: geography, religion, values, and traditional culture
- 3) Pre-modern Japan: socio-political-economic transformations
- 4) Cultural flourishing in the Edo period (1603-1868)
- 5) Japan in the mid-19th century: end of the "closed country" policy and the "Meiji Revolution"
- 6) The making of modern institutions, economy, and society in the Meiji period (1868-1912)
- 7) Emergence of Japan as an international power
- 8) Field trip
- 9) From progress in the democratization process to the rise of militarism
- 10) World War II, defeat, and the Occupation of Japan

- 11) Postwar Japan: recovery and issues I
- 12) Postwar Japan: recovery and issues II
- 13) Field Trip
- 14) Contemporary Japan: challenges and issues I
- 15) Contemporary Japan: challenges and issues II

* This course outline is subject to change.

[Out-of-class Learning]

In preparation for each class, students are expected to read the materials distributed by the instructor and write short reaction comments on them. After class, students are encouraged to review the contents of the lecture and their notes. Students are also encouraged to do further reading on specific topics of their interest that were discussed in class.

3. Grading :

Term paper: 60%

Weekly short reaction comments and contribution to class discussion: 40%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

A: at a high level

B: at a satisfactory level

C: at a generally acceptable level

D: at a minimum acceptable level

E: did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

There is no specific textbook required for this course. Reading materials (such as journal articles, book chapters, other) will be provided by the instructor during the course.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

The use of generative artificial intelligence is not allowed when writing weekly assignments and the term paper. Software that provide support with English grammar and spelling can be used.

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : AIP5010E

講義名[日本語(英語)] / Class Name : Colloquium I

担当者 (フルネーム) / Course instructor (Full Name) : 高田 寛文/TAKADA Hirofumi

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/金 Fri/5

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

【Outline of this lecture】

In this course, students in the ASEAN Initiatives Program will be provided with an opportunity to listen and discuss various topics in public administration and public policies with young government leaders and frontrunners in various fields, with the objectives of furnishing the students with profound knowledge and understanding on policy issues viewed from a broad perspective.

【Achievement Goals】

- Students can enlarge their knowledge and understanding on a wide range of public policy issues faced by Japanese society and economy.
- Students can also acquire leadership capability through encounters with leading professionals in government and other fields.

【Related Diploma Policy (DP)】

ASEAN Initiatives Program: ② ④

2. Course Outline :

Topics of each class will be provided by the respective guest speakers.

However, lectures by speakers from government organizations will be mainly focused on organizational structure, missions, issues and challenges of their organizations.

【Out-of-class learning】

In principle, lecture materials will be distributed in advance of each class, and students have to read and learn the outline features of the topic.

After each class, students must review the materials of the class and, when necessary, refer to the additional materials to deepen understanding of the topics.

Students must also submit a report that summarizes and discusses the content of a lecture from a comparative and leadership perspective.

3. Grading :

Pass/Fail

Grade criteria are as follows;

Pass: Actively contribute to class discussion, and present understanding on class content in individual report.

Fail: Not contribute to class discussion, and cannot present understanding on class content in individual report.

4. Textbooks and References (4-1:Required 4-2:Others)

No required textbooks.

Handouts will be prepared by the lecturers.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

☒ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO1000EB

講義名[日本語(英語)] / Class Name : Microeconomics I

担当者 (フルネーム) / Course instructor (Full Name) : WIE Dainn/WIE Dainn

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/火 Tue/3 火 Tue/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

1 Course Outline

The purpose of the course is to equip students in Master's program with basic theory and analytical tools in microeconomics. Students will acquire basic learning in economic theory and its implications in the public policies, so they can move on to take more advanced courses in economics and policy evaluation and design. Therefore, the course provides essential ground of knowledge that students need to acquire to earn Master's degree in this institute.

Related Diploma Policy [DP]

Young Leaders Program [DP2]: Ability to acquire extensive knowledge on public policy that is necessary to generate effective solutions to policy problems

Public Policy MP1& MP2 [DP2]: Ability to analyze micro and macroeconomic policies and make practical policy recommendations for problem solving based on the analysis

[DP3]: Ability to analyze international development policies that lead to economic development and make practical policy recommendations based on the analysis

Public Finance: [DP1]: Ability to understand economic theory and implications behind public policies in general, tax and customs policies, in particular.

[DP2]: The ability to identify problems and evaluate public policies, customs and tax policies in particular, using various qualitative and statistical techniques, so as to make policy implications.

2 Achievement Goals

Fundamental Concepts: Students should understand foundational concepts such as supply and demand, elasticity, and optimization of consumers and producers.

Application of Economic Models: Students are expected to learn how to apply basic demand and supply models to analyze real-world scenarios and make predictions about the welfare changes of consumers and producers.

Analytical Skills: Students should develop analytical skills to understand and utilize economic models to further predict impacts of public policy.

Economic Literacy: Students should gain a basic understanding of economic terminology, theories, and principles that are relevant to decision-making in their personal and professional lives.

2. Course Outline :

3 Course Contents

The main theme of the course is neoclassical models of consumer's utility maximization and firms' optimization. The course also encompasses various applications of each topic to demonstrate how the analytical tools in economics can be used in various contexts of policy designs.

Week 1 These classes are supposed to introduce fundamental concepts in economics and equip student with necessary mathematical tools they need throughout the class.

Oct 8(1): Introduction to Microeconomics

Oct 8 (2): Review of Mathematics

Week 2 These classes will introduce consumer's utility maximization behind demand curve.

Oct 15 (1): Preferences and Utility

Oct 15 (2): Utility Maximization and Choice

Week 3 These classes extend consumer's utility maximization, so we can analyze how external factors affect the individual demand curve.

Oct 22 (1): Utility Maximization: Lagrangian Approach

Oct 22 (2): Comparative Statistics

Week 4 These classes further extend consumer utility maximization in the context of uncertainty. Additionally, class provides insight about insurance and diversification as a strategy to combat uncertainty.

Oct 29 (1): Income and Substitution Effects

Oct 29 (2): Choice under Uncertainty (1)

Week 5 These classes are designed to provide basic concepts required to understand producer's profit maximization.

Nov 5 (1): Choice under Uncertainty (2)

Nov 5 (2): Production Function

Week 6 These class provides detailed explanation of producer's behavior behind supply curve.

Nov 12 (1): Cost Function

Nov 12 (2): Profit Maximization and Supply

Week 7 The classes will introduce basic analysis of supply and demand curve under perfect competition.

Nov 19(1): Pure competition

Nov 19(2): Applications in pure competition

Week 8:

a. Nov 26 (1): Review

b. Nov 26 (2): Final Exam

4. Out of Class Learning for Each Class:

Students are expected to read the assigned chapters in the textbook prior to each class to enhance their understanding of the material covered. Additionally, after class, they are encouraged to review the course materials and complete problem sets regularly to cultivate their analytical skills.

Date

Reading

Pset Posting

Pset Due

Week 1 (1)

CH 1

Week 1 (2)

Appendix to NC CH 1 (Optional)

Week 2 (1)

CH 2

PS #1

Week 2 (2)

CH 2

Week 3 (1)

CH 3

Week 3 (2)

CH 3

Week 4 (1)

CH 4

PS #2

PS #1

Week 4 (2)

CH 4

Week 5 (1)

CH 6

Week 5 (2)

CH 6

Week 6 (1)

CH 7

Week 6 (2)

CH 8

PS #2

Week 7

CH 9

Week 8

CH 9

3. Grading :

5 Grading

There will be two home works (40%) and one Final exam (60%). The overall grade will be determined on a curve and will adhere to GRIPS assessment policy.

A: Students demonstrate a high level of analytical understanding in written form, particularly regarding consumers utility maximization and producers profit maximization in both uncertain and certain contexts.

B: Students exhibit a solid understanding of fundamental concepts and analytical tools in microeconomics, and are able to effectively communicate this understanding in written form.

C: Students demonstrate a basic understanding of fundamental concepts in microeconomics.

D: Students achieved the goal at a minimum acceptable level.

E: This category encompasses students who do not meet the criteria outlined in the previous descriptions.

4. Textbooks and References (4-1:Required 4-2:Others)

6 Textbooks

6-1 Required :

Nicholson, Walter and Christopher M. Snyder, "AISE-Theory and Application of Intermediate Microeconomics", Any international edition

6-2 Recommended for reference

Varian, Hal R. Intermediate Microeconomics: Modern Approach. Any edition

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DEV2020E

講義名[日本語(英語)] / Class Name : Supply Chain Management for Infrastructure Planners

担当者 (フルネーム) / Course instructor (Full Name) : INOUE Satoshi

学期・曜日・時限 / Term・Day・Period : Fall 秋/Tue 火/2

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

Course Description

Today, global supply chain plays an indispensable role to the world economy. Strategic initiatives and proactive approaches to improve supply chain should be placed at the center of not only business management but also national and regional development planning. Moreover, once any single part of this global system gets stuck, our life and economic activities would come to an immediate halt. Thus, supply chain management is critical for resilience of our economy. Understanding of supply chain management, therefore, is now a prerequisite for infrastructure planners. This course aims to discuss the basics of supply chain planning and practical application of major logistics strategies, and also a range of their implications to infrastructure planning and management.

This course is related to Diploma Policy for Infrastructure Policy Course 1 and 5, that for Disaster Management Program 2 through 6, and Goals of the SDGs 9, 11, and 13.

本講義の概要

今日、グローバルなサプライチェーンは、世界経済にとって欠くことのできない重要な役割を果たしている。サプライチェーンを強化する戦略的な取組みは、企業経営のみならず国家や地域の開発計画において中心的なテーマとして位置付けられるべき状況にある。さらにこの地球的なシステムのたった一部でも滞れば、われわれの生活や経済活動は即座に停止してしまう。このためサプライチェーン・マネジメントは経済のレジリエンスからも重要となっている。したがって、今やサプライチェーン・マネジメントを理解することは、インフラ計画に関わる者にとって必修事項になっている。この科目はサプライチェーン計画の基礎や主要なロジスティクス戦略の適用に関して学ぶとともに、インフラの計画や経営に与える幅広い影響と示唆について考察することを目的とする。

この科目はインフラ政策コースのディプロマ・ポリシーの1と5, Disaster Management Programのディプロマ・ポリシーの2~6、さらにSDGsのゴール9, 11, 13に関連する。

Learning Objectives

- Ability to deeply understand and logically explain historical evolution of supply chain management.
- Ability to analyze supply chain system and strategies, and identify problems together with backgrounds.
- Ability to work out and recommend practical solution of logistics and supply chain problems.

- Ability to explore implications of the era of supply chain onto infrastructure planning and management.
- Ability to express own opinions logically and coordinate various opinions of different values and perspectives.

到達目標

- サプライチェーン・マネジメントの歴史的な発展について深く理解し論理的に説明できる。
- サプライチェーンのシステムや戦略について分析し問題点を背景とともに認識できる。
- ロジスティクスやサプライチェーンの問題にする現実的な解決策を見出し提示できる。
- サプライチェーン時代の到来がインフラの計画や管理に及ぼす影響を明確に把握できる。
- 自己の意見を論理的に表明し、さまざまな価値観や視点の意見をまとめることができる。

2. 各授業のテーマ：

- The course consists of the following four parts. Parts 1, 2 and 4 are mainly based on lectures with class discussion on key issues. Part 3 is based on presentations by student groups.
- Every student is required to form up a group and to conduct a case study on suggested leading companies of manufacturing and retailing industry with respect to their business model and supply chain strategy.
- In addition, toward the end of the course, students are required to submit a term paper covering topics given by instructor.
- Before coming to class, students are required to carefully study lecture materials which are to be uploaded at Teams in advance.

授業計画の概要

- このコースは次の 4 部から構成される。1, 2, 4 部は講義を主体としつつ主要な課題について全員で討議する。3 部は学生による事例研究の発表を行う。
- このため各学生は数名からなるグループを編成し、講師が示す製造業及び小売業のグローバル企業について、そのビジネスモデルとサプライチェーン戦略をケーススタディとして研究する。
- また学期末に、学生は講師が指示したテーマについて期末レポートを提出する。
- 講義資料は事前に Teams にアップロードするので、よく講義資料を勉強して授業に臨む。

Course Plan

Part 1 Introduction

1. Supply Chain and Infrastructure Planning
2. The Era of Supply Chain Management

Part 2 Supply Chain Planning and Strategies

3. Integration of Supply Chain and Strategic Alliance
4. Logistics Planning and Distribution Strategy
5. Inventory Management and Strategy
6. Logistics Strategy of Design and Production

7. Supply Chain and Information Technology

8. Risk Management of Supply Chain

9. Sustainability of Supply Chain

Part 3 Case Studies: Supply Chain Strategy of Leading Companies

10. Study Group Presentations

11. Study Group Presentations

12. Study Group Presentations

Part 4 Infrastructure Management in Supply Chain Era

13. Global Logistics and Containerization

14. Strategic Management of Gateway Port

15. Japan's National Land Development Strategy in Supply Chain Era

授業計画

第1部 インTRODakション

1. サプライチェーンとインフラ計画

2. サプライチェーン・マネジメント時代の到来

第2部 サプライチェーン計画と戦略

3. サプライチェーンの統合と戦略的連携

4. ロジスティクス計画と配送戦略

5. 在庫の管理と戦略

6. 設計と生産のロジスティクス戦略

7. サプライチェーンと情報技術

8. サプライチェーンのリスク管理

9. サプライチェーンの持続性

第3部 事例研究<グローバル企業のサプライチェーン戦略>

10. 研究グループ発表

11. 研究グループ発表

12. 研究グループ発表

第4部 サプライチェーン時代のインフラ経営

13. 国際ロジスティクスとコンテナ輸送システム

14. 国際ゲートウェイ港湾の戦略的経営

15. サプライチェーン時代の日本の国土開発

3. 成績の評価方法：

Grading

- In final grading, contribution to class discussion is given 20%, group study and presentation

40% and term paper 40%.

- A: those who have a thorough knowledge of the basics of supply chain management, and can clearly explain how it works.
- B: those who have a good knowledge of the basics of supply chain management, and can explain how it works.
- C: those who have a knowledge of the basics of supply chain management, and can briefly explain how it works.
- D: those who have minimum knowledge of the basics of supply chain management, and can only partially explain how it works.
- E: those who do not have a knowledge of the basics of supply chain management, and cannot explain how it works. Failure.

成績評価

成績の評価は、クラス討議への貢献（20%）、グループ研究・発表（40%）、期末レポート（40%）を考慮して決定する。

A: サプライチェーン・マネジメントの基礎的な知識を詳細に習得し、それがどのように機能するか明確に説明できる。

B: サプライチェーン・マネジメントの基礎的な知識をよく習得し、それがどのように機能するか説明できる。

C: サプライチェーン・マネジメントの基礎的な知識を概ね習得し、それがどのように機能するか概略的に説明できる。

D: サプライチェーン・マネジメントの基礎的な知識について最低限の習得をし、それがどのように機能するか不完全ながら説明できる。

E: サプライチェーン・マネジメントの基礎的な知識について習得できておらず、それがどのように機能するか説明できない。不合格。

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

Textbooks and References

- No textbook is required.
 - References are as follows;
1. C. John Langley, Jr., Robert A. Novack, Brian J. Gibson, John J. Coyle; Supply Chain Management: A Logistics Perspective, 11th edition, Cengage, 2021.
 2. David Simchi-Levi, Philip Kaminsky, & Edith Simchi-Levi; Designing & Managing the Supply Chain 3rd edition, McGraw-Hill/Irwin, 2008.
 3. David Frederick Ross; Distribution Planning and Control—Managing in the Era of Supply Chain Management 3rd edition, Springer, 2015.
 4. Martin Christopher; Logistics & Supply Chain Management — Creating Value-Adding

Networks, Butterworth-Heinemann, 2003.

- Additional references will be introduced in the course when and as required.

テキストと参考文献

- 必携のテキストはない。参考文献は上記の通り。
- 必要に応じて追加の参考文献がコースの中で紹介される。

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可/Allow

7. 履修上の注意：

This course will be conducted in English and, as necessary, complemented in Japanese. International interaction of views and discussions between foreign and Japanese students is highly expected.

この科目は英語をベースに必要な応じて日本語を交えて行われ、海外留学生と日本人学生の相互の国際的な意見交換と討議を心掛けて運営される。

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DEV2150J

講義名[日本語(英語)] / Class Name : 都市学の理論と実践

担当者（フルネーム）/ Course instructor (Full Name) : 岸井 隆幸, 家田 仁/KISHII Takayuki and IEDA Hitoshi

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/5

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

（1）本講義の概要

現代都市を構成する様々な空間要素・非空間要素についてその特性や相互の関係性を歴史的な視点や社会経済的視点を踏まえて多角的に学ぶとともに、現代都市が抱えている様々な課題を取り上げ、その課題を解決するために必要な社会制度の在り方そして課題を解決するために各要素を適切に組織化する実践的方法論について、講義及び受講者自らが参加する討論（ディベート）を通じて学ぶ。

関連するディプロマ・ポリシー（DP）は以下の通り。

公共政策プログラム

地域政策コース DP②

インフラ政策コース DP①

防災・危機管理コース DP⑤

医療政策コース DP②

農業政策コース DP②

科学技術イノベーション政策コース DP②

国際協力コース DP②

まちづくり政策コース DP①、②

総合政策コース DP②

（2）到達目標

- ・都市および都市計画に係る基本的な概念を理解し、説明できる
- ・現在の都市が抱える課題を客観的に把握、分析、説明することができる
- ・都市計画制度について歴史的に理解し、論理的に説明できる
- ・今後の都市を巡る新たな課題とその解決の方向性について、自ら考え、論理的に説明できる

2. 各授業のテーマ :

（1）全体構成

本講義は以下の4つのパートで構成される。

- I. 都市学原論
- II. 都市計画を支える理論と制度の変遷
- III. 現代都市の課題に関する討論
- IV. 都市プロジェクト実践論

それぞれのパートは以下のような内容と方法で行われる。

- I. 都市学原論 家田教授による講義、テーマは以下の通り
 - 1) 都市の本質
 - 2) 都市の形成・変容のメカニズム
 - 3) 都市を制御することの重要性と限界性
- II. 都市計画を支える理論と制度の変遷
岸井客員教授による講義、テーマは以下の通り
 - 1) 近代都市計画の潮流
 - 2) わが国都市計画制度の歩み
 - 3) 現代都市の再生・再構築
- III. 現代都市の課題をめぐる討論
受講生によるグループディベートと岸井客員教授による解説
討論の課題と討論方法は授業中に示す
- IV. 都市プロジェクト実践論
 - 1) 東京の都市再生プロジェクト：渋谷他
 - 2) 地方都市の駅前整備：熊本・長野
 - 3) 東日本大震災からの復興プロジェクト
 - 4) 東京都市圏パーソントリップ調査

(2) 授業外学習

- ・パート I が終わった段階で最初のレポート提出を求めるため、パート I の授業が終わった段階で、授業外学習としてそれまでの授業のまとめを行うこと
- ・パート II の途中でパート III の討論テーマとテーマ別担当者を決定するので、パート III での発表担当時まで、授業外学習としてパート II の復習を行うとともに、与えられた討論テーマに関して発表する PPT を作成すること
- ・パート IV が終わった段階で、最終レポートの提出を求めるので、授業外学習として本授業全体にわたる復習とまとめを行うこと

3. 成績の評価方法：

- ・講義内パート III で行われるディベートで発表される内容で 40%、課題に対するレポート (2 回)

の内容で 60%が判定される。

・成績基準

A:都市および都市計画の理論と実践について、基本的な知識と考え方を十分に修得し、さらにその仕組みについて説明できる

B:都市および都市計画の理論と実践について、基本的な知識と考え方を修得し、さらにその仕組みについて説明できる

C:都市および都市計画の理論と実践について、基本的な知識と考え方を概ね修得し、さらにその仕組みについて説明できる

D:都市および都市計画の理論と実践について、基本的な知識と考え方について最低限の修得をしており、さらにその仕組みについて説明できている

E:都市および都市計画の理論と実践について、基本的な知識と考え方が修得できておらず、さらにその仕組みについての説明ができていない。不合格。

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1：岸井隆幸・大沢昌玄他、「都市計画」（四訂版）、コロナ社、2020

4-2：Tokyo Metropolitan Office、「The Changing Face of Tokyo: From Edo to Today, and into the Future」、Tokyo Metropolitan Office、2020

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

ディベート発表用に PPT を利用する以外、特別なソフトウェアは必要としない

6. 聴講の可否

可 Allow

7. 履修上の注意：

Ⅲ.の討論は、講義内で提示された課題について、受講生で構成される二つのグループが PPT を用いて発表し討論する。この部分だけはグループ作業となる。

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DEV2160J

講義名[日本語(英語)] / Class Name : 社会基盤整備の PPP/PFI

担当者（フルネーム） / Course instructor (Full Name) : 日比野 直彦/HIBINO Naohiko

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/火 Tue/3

単位数/ Credits : 1

1. 本授業の概要及び到達目標：

社会基盤整備の方法は多様化しており、PPP (Public Private Partnerships) / PFI (Private Finance Initiative) の適用が進んでいます。本講義では、このような背景を踏まえ、PPP/PFI についての基礎的な内容（現状、制度、課題等）を理解することを目標として、講義を行います。なお、後半は、受講者をいくつかのグループに分け、発表・討議を行います。

本講義での到達目標は、PPP/PFI についての基礎的な内容を理解し、それを説明できるようになることです。

関連するディプロマポリシーは、公共政策プログラム地域政策コース DP②、インフラ政策コース DP①、防災・危機管理コース DP⑤、医療政策 DP②、農業政策 DP②、科学技術・イノベーション政策コース DP②、国際協力コース DP②、まちづくり政策コース DP②、総合政策コース DP②です。

2. 各授業のテーマ：

前半は、概論、基本用語の解説、PPP/PFI の現状、事業プロセス、リスクマネジメント、課題等に関する講義を行います。後半では、学生からの発表とそれに基づく討議を行います。予習は、事前に配布する資料を読んで、全体構成を把握しておくことです。また、後半は各自で発表の準備をすることです。復習は、講義で使われた基本用語を覚え、その内容を整理することです。

3. 成績の評価方法：

発表および討議での発言、課題の成果を基に評価します。

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

必携のテキストは特になし。必要に応じて講義内で配布。

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

否 Not Allow

7. 履修上の注意：

社会基盤整備についての基礎的な知識を有していることが望ましい。

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DEV2180J

講義名[日本語(英語)] / Class Name : 水圏国土学

担当者 (フルネーム) / Course instructor (Full Name) : 知花 武佳/CHIBANA Takeyoshi

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/水 Wed/5 水 Wed/6

単位数/ Credits : 1

1. 本授業の概要及び到達目標 :

【本講義の概要】

本講義は、日本全国の河川および流域の風景をスライドで学び、日本の国土に見られる自然環境には、各地域どのような特徴があり、それがどのようなメカニズムで形成されるのか、そしてその上で人と自然との間にどのような相互作用があったのかを理解するものである。

【到達目標】

これからの人口減少と都市への一極集中で、人と自然との関わり方が大きく変化しようとしている中、環境の保全・再生、天然資源の利用、および安全対策の三つが調和した川づくり・国土形成が求められているが、その際には地域固有の自然環境特性を理解し、その特性に調和した河川・流域管理手法を考えなければならない。この河川・流域管理手法、ひいては日本の風土を踏まえた国土計画、さらには日本の自然に根ざした日本人の特徴とは何かを考えられるようになるため、履修学生の皆さんが日本各地の河川およびその流域の自然環境の特徴や、それに関わる種々の基礎知識を理解することを目指す。本講義が、我が国の国土を今後どのように整備していくべきかを考える一助となることを期待している。

もう一つ目的は、川あるいはその流域を見る楽しみを知ることである。この講義で川に立ち寄りながら旅することの楽しみが伝わればありがたい。

なお、本講義は、SDGs の目標 9, 11, 14, 15 (産業基盤, まちづくり, 海の豊かさ, 陸の豊かさ) に関連する。

【関連する DP】

公共政策プログラム地域政策コース ディプロマポリシー②.

公共政策プログラムインフラ政策コース ディプロマポリシー①.

公共政策プログラム防災・危機管理コース ディプロマポリシー②.

公共政策プログラム医療政策コース ディプロマポリシー②.

公共政策プログラム農業政策コース ディプロマポリシー②.

公共政策プログラム科学技術イノベーション政策コース ディプロマポリシー②.

公共政策プログラム国際協力コース ディプロマポリシー②.

公共政策プログラムまちづくり政策コース ディプロマポリシー②.

公共政策プログラム総合政策コース ディプロマポリシー②.

2. 各授業のテーマ :

01. 「日本の川に見る地域特性」 (10/09)

- 02. 「日本列島の成り立ち」(10/09)
- 03. 「土砂で捉える流域の特徴」(10/16)
- 04. 「山地の特徴と森林管理」(10/16)
- 05. 「丘陵地・台地の特徴と里山管理」(10/23)
- 06. 「低地の特徴と氾濫原管理」(10/23)
- 07. 「地形図から川と土地を知る」(10/30)
- 08. 「日本の国土(まとめ)」(10/30)

【授業外学修】

授業外学修として、授業期間中に参考文献または日本の国土に関する書籍を読むと共に、国内のどこかの地域に赴いて、その場所の地理的特徴についてよく観察すること。

3. 成績の評価方法：

「地理的特徴に関する課題(レポート)」で評価。例は下記参照。締切は11/27(水)頃を予定。

評価の目安は以下の通り

- A：日本列島の成り立ちと地形の特徴について十分に修得し、任意の地域における地理的特性を多面的に考察できる。
- B：日本列島の成り立ちと地形の特徴について修得し、身近な地域の地理的特性について考察できる。
- C：日本列島の成り立ちと地形の特徴について概ね修得し、身近な地域の地理的特性を説明できる。
- D：日本列島の成り立ちと地形の特徴について最低限の修得をしており、学んだ内容を説明できる。
- E：日本列島の成り立ちと地形の特徴について修得できておらず、学んだ内容を説明できない。

(課題例)

以下の課題について、A4で2～4ページ(図や写真を含めて結構ですが、多くなる場合や参考資料がある場合は別添可)でまとめて下さい。自然の特徴に根ざした人間活動について、講義で話したことと関連づけながら、しっかりと考察して記述して下さい。

1. ある市区町村を選定し、その地形的特徴(山地・丘陵地・段丘・低地(扇状地・蛇行原・三角州)の別とその形態の特徴)およびその形成過程(隆起・沈降、縄文海進による海底堆積物、火山灰、川や海による侵食など)を簡潔に紹介して下さい。対象地は、居住地、実家、親戚の家、かつて行ったことのある場所に加え、これから訪問する(したい)場所でも構いません。
2. その市区町村の地形的(場合によっては地質的)特徴とその地域にかつて起こったあるいは今後起こる恐れのある自然災害(豪雨・台風・地震に伴う土砂災害(土石流・崖崩れ・地沁り)や水災害(洪水・渇水・津波・高潮)など)や今後想定されるリスクについて状況を説明して下さい。
3. 2. で述べた特徴に関わる人の生活様式や生業、土地の人為的改変としてどのようなものが見られるかを述べて下さい。例えば、遺跡、古墳、条里制遺構、荘園跡、城跡、灌漑施設と農業、林業や薪炭林管理、炭鉱、漁業、集落の発展や都市化、インフラ整備、河道の付け替えや改修、地形改変など。

4. 【重要】これら地理的・社会的特徴を踏まえた上で、今後の人口変化や気候変動なども考慮し、その地域におけるこれからの住まい方やまちづくりのあり方について自由に論じて下さい。

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

(4-1:) なし

(4-2:)

- ・「日本列島の誕生」 平朝彦 岩波新書（同タイトルの動画が YouTube で閲覧可能.）
- ・「日本の地形—特質と由来—」 貝塚爽平 岩波新書
- ・日本史の謎は「地形」で解ける（三部作） 竹村公太郎 PHP 文庫
- ・Hideo NAKAMURA, Kotaro NAGASAWA, et.al., Principles of Infrastructure: Case Studies and Best Practices, Asian Development Bank Institute, 2019

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

None

6. 聴講の可否

可 Allow

7. 履修上の注意：

「これくらい知っていて当然」と思う問題について「あてる」ことはありません。たぶん知らないだろう、間違えてもらった方が説明しやすい、ということについてののみ、時々「話しかける」ので、気軽に話ししましょう。また、講義のスピードが速い、あるいは説明がわかりにくかったという場合は、その場で教えてください。「ちょっと聞き漏らしたのでもう一回説明して下さい。」でも結構です。（一人がわからなければ、数人わからない or わかってないことにすら気づいていない。二回以上聞いて真の意味がわかるのが普通。）一緒に対話形式の講義を目指しましょう。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP1801E

講義名[日本語(英語)] / Class Name : Numerical Analysis Method and Practice

担当者 (フルネーム) / Course instructor (Full Name) : USHIYAMA Tomoki, HARADA Daisuke and Rasmy Mohamed / 牛山 朋来, 原田 大輔, Rasmy Mohamed

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1 Course Description and Attainment target

This course provides general knowledge of the numerical analysis method and basic computer programming skills of Fortran90 to develop the ability to analyze problem-related data to solve water-related problems. Computer programming skills are required in the other elective courses, such as “Practice on Integrated Flood Analysis System (IFAS)”, “Practice on GIS and Remote Sensing Technique”, and “Practice on Open Channel Hydraulics”. However, this course provides basic understanding and skills in the use and application of the programming languages. In addition to Fortran, Python is introduced which is now popular for handling data files, etc.

[Course Goals]

The aim is to understand the numerical analysis methods. In addition, students should be able to understand, modify and create computer programs to solve water problems using the basic techniques of the computer languages listed below.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem-solving based on academic analysis from multiple perspectives with a wide range of knowledge on disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

2 Course Outline (Course Topics)

Week

- 1 : Introduction of Computer Programming with Fortran90

- 2 : Variables, Arithmetic Calculation
- 3 : Program Structure (if)
- 4 : I/O Statement
- 5 : Program Structure (do loop)
- 6 : Arrays (vectors)
- 7 : Arrays (matrix)
- 8 : Procedures and Structured Programming (subroutine, function)
- 9 : Hydrologic Application Exercise (1) Tank model
- 1 0 : Numerical approximations in hydrological application Exercise (2)
- 1 1 : Advanced Hydrologic modeling (RRI algorithm and structures)
- 1 2 : Introduction to Python
- 1 3 : Application of Python (1)
- 1 4 : Application of Python (2)
- 1 5 : Application of Python (3)
- 1 6 : Quiz

[Themes]

Students will learn the basic components and operations of programming using Fortran 90 (and Python), create their own examples to check their operation, and create similar example programs by themselves in the assignments after each class. After that students will learn numerical analysis method using the programming skills they have got.

[Out-of- class learning]

After each class students further learn the use of algorithms and functions by creating, executing, and checking the results of the programs similar to the one learned in the class. The results will be discussed between students in the next class.

3 Grading

Quiz (50%), Assignment reports (50%)

If a report is late for the deadline, it will be not evaluated.

A: Good understanding of basics of the Fortran 90 programming techniques and be able to make numerical analysis using them.

B: Understanding of basics of the Fortran 90 programming techniques and be able to make numerical analysis using them.

C: Understanding of basics of the Fortran 90 programming techniques and be able to use them to create basic programs.

D: Understand the minimum methods of Fortran 90 programming techniques and be able to use them to create basic programs.

E: Do not understand the minimum methods of Fortran 90 programming techniques and are unable to create programs using them.

4 Textbooks

Reference: Fortran95/2003 for Scientists and Engineers (Third Ed.), by Stephen J. Chapman, McGraw-Hill,

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2000E

講義名 [日本語 (英語)] / Class Name : Disaster Management Policies A: from Regional and Infrastructure Aspect

担当者 (フルネーム) / Course instructor (Full Name) : 知花 武佳 日比野 直彦 / CHIBANA Takeyoshi, HIBINO Naohiko

学期・曜日・時限 / Term・Day・Period : 秋学期 /Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course deals with the various aspects of disaster management policies from the viewpoint of infrastructure development. It emphasizes understanding the mechanism of natural disasters and measures against it. The course consists of four parts:

- I) Introductory lecture to overlook disaster management policies
 - II) Lectures in specialized fields on practical measures against natural disasters
 - III) Site-visiting in central Tokyo
 - IV) Presentations by students and overall discussions
- The 3rd and 4th are jointly managed with DMP(B).

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP)

- 2. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies.
- 3. Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice.
- 4. Ability to identify an issue, analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them.
- 5. Ability to play an active role as a balanced leader based on a deep understanding of different values and systems in a global society.

[Course Goals]

Students will gain a broad understanding of key disaster management concepts, including policies and institutions, technical measures, and characteristics of natural dynamics.

2. Course Outline :

I .

1. Characteristics of Natural Disasters

II . Disaster Management in Individual Fields (by various experts)

2. Heavy Rain, Snow and Other Disasters in Road Systems, etc.

3. Flood Management in Japan 1

4. Flood Management in Japan 2

5. Wind and Rain Disaster Management in Railway Operation

6. Japan Railway and Natural Disaster

7.Coastal Disaster Management

8. Flood Disaster and Poverty

III. Site-Based Study in Tokyo Metropolitan District

9. Site-Based Study 1) (Together with DMP(B))

10. Site-Based Study 2) (Together with DMP(B))

11. Site-Based Study 3) (Together with DMP(B))

IV. Presentations and Discussion

12. Esquisse (Presentation Workshop) (Together with DMP(B))

13. Presentation and Discussion 1) (Together with DMP(B))

14. Presentation and Discussion 2) (Together with DMP(B))

15. Presentation and Discussion 3) (Together with DMP(B))

[Out-of-class Learning]

Students are expected to read the materials provided in advance and familiarize themselves with the lecture content prior to attending class.

3. Grading : .

Final Group Presentation and Contribution to Discussion (70%)

Final Report (30%)

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Necessary materials will be provided by instructors.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Exclude site visits from the audience.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2010E

講義名[日本語(英語)] / Class Name : Disaster Management Policies B: from Urban and Community Aspect

担当者 (フルネーム) / Course instructor (Full Name) : 片山 耕治 / KATAYAMA Koji

学期・曜日・時限 / Term・Day・Period : 秋学期 /Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course aims to provide a broad understanding of disaster risk management, policies related to urban, housing and community aspects. It emphasizes application of appropriate and practical measures, reflecting social, economic and environmental conditions of each country. This course also attempts to discuss the following issues;

- Basic issues of the disaster management policies
- Lessons from the past large disasters in the world
- Urban Disaster risk management policy in Japan
- Policies and regulations to secure building safety

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP)

2. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
3. Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
4. Ability to identify an issue, analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them
5. Ability to play an active role as a balanced leader based on a deep understanding of different values and systems in a global society.

[Course Goals]

Students will gain a broad understanding of key disaster management concepts, including the use of tools for data management and analysis, policy development, and risk communication.

2. Course Outline :

1. Disasters in the World, Basics of Disaster Risk Management
2. Lessons from 2011 Tohoku and 1995 Kobe ,Basics of Disaster Risk Management, Development of disaster risk management

3. Urban disaster risk management policy, Building / housing policy and disaster management
4. Special Lecture "Augmented Reality disaster management training"
5. Special Lecture "Weather and Disasters"
6. Special Lecture "No code App"
7. Special Lecture "Sediment-related Disasters"
8. Special Lecture "OpenStreetMap"
9. Esquisse (Presentation Workshop) (Together with DMP(A))
10. Presentation and Discussion 1) (Together with DMP(A))
11. Presentation and Discussion 2) (Together with DMP(A))
12. Presentation and Discussion 3) (Together with DMP(A))
13. Site-Based Study 1) (Together with DMP(A))
14. Site-Based Study 2) (Together with DMP(A))
15. Site-Based Study 3) (Together with DMP(A))

[Out-of-class learning]

Students are expected to read the materials provided in advance and familiarize themselves with the lecture content prior to attending class.

3. Grading :

Final Presentation(70%) and Contribution to Discussion(30%)

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding:	A
Superior:	B
Satisfactory:	C
Minimum acceptable:	D
Below the acceptable level:	E

4. Textbooks and References (4-1:Required 4-2:Others)

Necessary materials will be provided by instructors

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

Allow

7. Note :

Site visits are restricted to enrolled course students and are not open to the audience.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2800E

講義名[日本語(英語)] / Class Name : Hydrology

担当者(フルネーム) / Course instructor (Full Name): MIYAMOTO Mamoru, KOIKE Toshio, TANAKA Shigenobu

学期・曜日・時限 / Term・Day・Period : 秋、冬 /Fall, Winter/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

Water is a key which makes a bridge between the socio benefit areas including agriculture and forestry, health, energy and human settlement and the geophysical and bio-geochemical water cycle processes in atmosphere, land and oceans. To establish a physical basis on water cycle, this course aims to introduce important roles of water in climatological and meteorological processes and the basic concepts of hydrology including understanding, observing and modeling of hydrologic processes. Statistic approach, river planning, and climate change adaptation are introduced as advanced facets of hydrology.

[Course Goals]

This course requires students to understand various hydrological processes as well as governing equations for describing surface flow and stream flow. Students also are required to understand runoff modeling, statistical analysis, and climate change which are needed for water-related disaster management.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (3) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

2. Course Outline :

1. Water Cycle and Climate System

- 1) Hydrology, creating environmental diversity in the world (Koike)
- 2) Water cycle as a part of the climate system (Koike)

2. Hydrological Processes; Observation and Modeling

- 1) Atmosphere-land interaction
- 2) Soil moisture
- 3) Surface flow

- 4) Stream flow
- 5) Groundwater
- 6) Runoff modeling
- 7) Basin hydrological processes

3. Water Resources Planning and Management

- 1) Statistical hydrology 1 (Tanaka)
- 2) Statistical hydrology 2 (Tanaka)
- 3) Statistical hydrology 3 (Tanaka)
- 4) River planning (Koike)
- 5) Climate change adaptation (Koike)
- 6) Operational hydrology

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the basics of phenomena in each hydrological process by searching lecture materials and related research papers, which will support their research.

3. Grading :

Students will deepen their understanding of the hydrological phenomena and its system through lectures and the final examination and will be graded from A to D or E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

4-2 Roland B. Stull: An Introduction to Boundary Layer Meteorology, KLUWER ACADEMIC PUBLISHERS.

4-2 J.R. Holton: An Introduction to Dynamic Meteorology, Academic Press.

4-2 Wilfried Brutsaert: Hydrology: An Introduction, Cambridge University Press

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2810E

講義名[日本語(英語)] / Class Name : Hydraulics

担当者 (フルネーム) / Course instructor (Full Name) : 原田 大輔 / HARADA Daisuke

学期・曜日・時限 / Term・Day・Period : 秋、冬 /Fall, Winter/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

All flows formed in water environments such as river channels, irrigation channels, lakes and seas are subjected to conservation laws of mass, momentum and energy, and are described by means of partial differential equations. This course aims to obtain knowledge on water flows formed in river channels and flood plains, and discusses methods to evaluate such flows. Special attention are paid on open channel flow.

[Course Goals]

This course requires students to understand basic concepts for the theory of hydraulics including governing equations which describes the nature of water flows. Describing of water surface profile under various conditions are particularly important for the planning of disaster management.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to identify an issue, analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

2. Course Outline :

1. Basic mathematical tools

- Partial differential equation (1)
- Integral of the Partial differential equation (2)

2. Governing equations for water flow -Conservation principles

- Mass conservation law (3)
- Momentum conservation law (4)
- Energy conservation law (5)

3. Open channel flows

- Velocity profile and friction law (6)
- Governing equations for open channel flow (7)
- Water surface profile (8)

4. Flood waves

- Flow and wave (9)
- Dynamic wave, diffusive wave, kinematic wave (10)
- 5. Flows over flood plains
 - Modeling of depth-integrated flows with various obstacles (11)
- 6. Transportation of substances (Mass conservation equations)
 - Convective diffusion equation (12)
 - Dispersion equation (13)
- 7. Similarity principle (14)
- 8. Examination and discussions (15)

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the basics of phenomena in each hydraulics by searching lecture materials and related research papers, which will support their research.

3. Grading :

50 points for reports and short quizzes

50 points for the examination

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

4-1 Required

Egashira, S. (2016): Hydraulics, Lecture Note

4-2 Others

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2821E

講義名[日本語(英語)] / Class Name : Disaster Risk Reduction for Hydroclimatic Extremes

担当者 (フルネーム) / Course instructor (Full Name) : KOIKE Toshio／小池 俊雄

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course addresses the question of how we can reduce the risks of hydro-climatological extremes, such as floods, which are being exacerbated by climate change. It introduces the recent conceptual developments of "risk", "resilience" and "sustainability" and their reflection in UN policies on "Development and Environment" and "Disaster Risk Reduction". Japan provides a useful example of the evolution of the concepts and their implementation, including governance, legislation and finance. In this course, the history of trials and errors and updates will be presented and discussed.

[Course Goals]

This course enables students to develop and share adequate capacity and science-based knowledge for informed cross-sectoral decision-making among all stakeholders to improve resilience to hydro-climatological extremes under climate change and to build a sustainable society.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

1. Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
2. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
3. Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
4. Ability to identify an issue, analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them
5. Ability to play an active role as a balanced leader based on a deep understanding of different values and systems in a global society

2. Course Outline :

(1) Occurrence of disaster (four classes)

- 1) What is disaster risk?

- 2) PAR model and ACCESS model
- 3) Impacts of Climate Change
- 4) Disaster management cycle
- (2) Conceptual evolution of UN policies (four classes)
 - 1) Development and Environment
 - 2) Disaster Risk Reduction
 - 3) Climate Change Mitigation and Adaptation
 - 4) Integrated Management
- (3) Japan's experiences (four classes)
 - 1) Conventional river management before the 20th century
 - 2) The river management evolution in the 20th century
 - 3) Updated river management in the 21st century
 - 4) Strengthening sustainability and resilience by all
- (4) International cooperation (three classes)
 - 1) Science-based cooperation
 - 2) Multilateral cooperation
 - 3) Bilateral cooperation

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the basics of water resources management and river engineering by searching lecture materials and related research papers, which will support their research.

3. Grading :

Students will deepen their understanding of the hydrological phenomena and its system through lectures and the final examination and will be graded from A to D or E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks : (4-1:Required 4-2:Others)

4-1: Required

- Ben Wisner, Piers Blaikie, Terry Cannon and Ian Davis: At Risk -natural hazards, people's vulnerability and disasters- (Routledge, London & NY, 2004)
- Kuniyoshi Takeuchi: Integrated Flood Risk Management – Basic Concepts and the Japanese Experience (Routledge, London & NY, 2023)
- UNESCO IWRM guidelines steering committee, IWRM Guidelines at River Basin Level: Part 1-1 Principles, 2-1 Part 2-1 Coordination, 2-2 Flood Management, 2-3 Irrigation. (UNESCO, 2009)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2871E

講義名[日本語(英語)] / Class Name : Geography on Flood Disaster Management

担当者 (フルネーム) / Course instructor (Full Name) : NAGUMO Naoko and SUGAI Toshihiko

学期・曜日・時限 / Term・Day・Period : 秋-冬

単位数/ Credits : 2

1. Course Aims and Objectives

The characteristics of river basins are developed over a long period of time by both the natural conditions inherent to rivers and the social and economic activities by human. One of the goals of Geography is to elucidate these characteristics of river basins and to assist in fostering more desirable relationships with rivers, such as flood control, water use, and environmental conservation measures. From this perspective, students in this lecture will learn the methods of geographical regional analysis and understand that there are regional differences in the characteristics of rivers, hydraulic and hydrological phenomena in river basins, and human settlement patterns. Furthermore, students will study the history of rivers and human interactions with them, and grasp the importance of flood control, water use, and environmental conservation measures adapted to the characteristics of each river basin.

[Course Goals]

This course aims to enable students to create maps and conduct regional analysis using geographic information, as well as to be able to explain geographic characteristics of their individual study area. Additionally, understanding the importance of flood control, water use, and environmental conservation measures which are tailored to the characteristics of each river basin is also one of the goals of this lecture.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

2. Course Topics and Methods

1: Introduction

- Development of geographical concepts
- 2: Interpretation of Geographic Information (1)
Basics of map representation and map reading
 - 3: Interpretation of Geographic Information (2)
Use of topographic maps
 - 4: Interpretation of Geographic Information (3)
Aerial photograph and satellite image interpretation
 - 5: Regional analysis using geographic information (1)
Description of regional characteristics
 - 6: Regional analysis using geographic information (2)
Role of mapping and land measurement
 - 7: Excursion
Excursion to the Geospatial Information Authority
 - 8: Fluvial systems and fluvial processes (1) (Prof. Sugai)
Earth system and hydrological system
 - 9: Fluvial systems and fluvial processes (2) (Prof. Sugai)
River morphology, process, and floodplain geomorphology
 - 10: Fluvial systems and fluvial processes (3) (Prof. Sugai)
Fluvial responses to climate changes
 - 11: Fluvial systems and fluvial processes (4) (Prof. Sugai)
Fluvial responses to tectonic and anthropogenic changes
 - 12: Development of river basins and alluvial plains (1)
Sediment transportation and flooding of sediment in a river basin
 - 13: Development of river basins and alluvial plains (2)
Civilization in alluvial plains
 - 14: Development of river basins and alluvial plains (3)
Development of rivers and its challenges
 - 15: Summary of the class

[Out-of-class Learning]

Students are required to review the lecture materials distributed in class and their own lecture notes both before and after the lecture. Additionally, they must submit assignments by the deadline, and search for and read related research papers according to their individual interests.

3. Grading

Students are required to deepen their understanding of geography through lectures, class exercises and

assignments as well as examination. The grade will be evaluated based on class exercises and assignments (40%) and exams (60%).

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks

4-1 Required

In this course, no textbook is specified.

4-2 Others

Fryirs, K.A. and Brierley, G.J. (2013) *Geomorphic Analysis of River Systems: An Approach to Reading the Landscape*, First Edition, Blackwell Publishing.

Leopold, L.B., Wolman, M.G., Miller, J.P. (2020) *Fluvial Processes in Geomorphology*, Second Edition, Dover Publications.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2891E

講義名[日本語(英語)] / Class Name : Hydrological Modeling for Water and Sediment Disaster Management under Climate Change

担当者 (フルネーム) / Course instructor (Full Name) : Rasmy Mohamed, SAYAMA Takahiro and HARADA Daisuke / Rasmy Mohamed, 佐山 敬洋, 原田 大輔

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1 Course aims & objectives

The hydrologic model is a simplified representation of an existing hydrologic system that helps water resources comprehension, assessment, forecasting, management, and mitigation.

[Course Goals]

The objective of this course is to introduce a theoretical background of hydrological processes, and concepts of model developments, and provide the necessary skills for undertaking hydrological flow, flood inundation, and sediment-related simulations and analysis in poorly gauged basins under climate change using the state-of-the-art global information and technologies.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to understand hydrological, hydrodynamic, and sediment processes and their modelling
- (2) Ability to execute, analyze, and visualize the outputs from Rainfall-Runoff-Inundation (RRI) modeling, Rainfall-Sediment-Runoff (RSR) modeling, and Water and Energy Budget Rainfall-Runoff-Inundation (WEB-RRI) modeling at different scales
- (3) Ability to understand climate change scenarios and selection and bias-correction of climate model outputs to be used for hydrological modeling under various climate projection scenarios.

2 Course Topics

- 1 : Basics of Flood Hazard Models
- 2 : Rainfall-Runoff-Inundation modeling (1) Data preparation
- 3 : Rainfall-Runoff-Inundation modeling (2) Running model
- 4 : Rainfall-Runoff-Inundation modeling (3) Command User Interface
- 5 : Rainfall-Runoff-Inundation modeling (4) Parameter setting
- 6 : Rainfall-Runoff-Inundation modeling (5) Analysis of simulation results
- 7 : Rainfall-Runoff-Inundation modeling (6) Advanced model settings

- 8 : Introduction to Rainfall-Sediment-Runoff (RSR) (1) processes modeling
- 9 : Rainfall-Sediment-Runoff (RSR) (2) model setup and simulation
- 10: Water and Energy flux estimation in Modified Simple Biosphere Model 2 (SiB2)
- 11: Water and Energy Budget Rainfall-Runoff-Inundation (WEB-RRI) modeling
- 12: Introduction to climate model, scenarios, and projections
- 13: Climate model selection using Data Integration Analysis System (DIAS)
- 14: Statistical downscaling of climate model outputs (1)
- 15: Application of climate model outputs in hydrological model
- 16: Final Exam

[Out-of-class Learning]

Study the lecture notes, manuals, and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can also learn about hydrological and sediment transport processes and their modelling by searching lecture notes and related research papers online, and prepare themselves for their research objectives.

3 Grading

Students will enhance their understanding of hydrological and sediment transport processes and modelling through lectures, hands-on training, assignments, and examinations, and they will be graded from A to E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

65% points for assignment reports

35% points for the final examination

Remarks: The late submission of the reports and assignments will not be evaluated.

4 Textbooks

4-1 Required Material made by the instructors

4-2 Others

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP2901E

講義名[日本語(英語)] / Class Name : Crisis and Risk Management

担当者 (フルネーム) / Course instructor (Full Name) : OHARA Miho／大原 美保

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

For achieving flood disaster risk reduction, both risk management and crisis management is essential. Sendai Framework for Disaster Risk Reduction 2015-2030 (SFDRR) defines four priority for action. Among these priorities, “Priority 1: Understanding disaster risk” and “Priority 2: Strengthening disaster risk governance to manage disaster risk” are the basis of disaster risk reduction. In addition, “Priority3: Investing in disaster risk reduction for resilience” is related to risk management while “Priority 4: Enhancing disaster preparedness for effective response and to “Build Back Better”” is related to crisis management. Based on SFDRR, This course aims to provide the basic understanding of crisis and risk management. The measures implemented in Japan for these priorities for action are also introduced. Necessary governance and communication to achieve these priorities are also explained.

[Course Goals]

This course requires students to understand both risk management and crisis management defined as priorities for action by SFDRR. Students are required to understand measures implemented in Japan including their history of establishment and revisions in addition to understand necessary governance and communication with related stakeholders to achieve these priorities. Students are also required to obtain the skill of making a plan of risk management and crisis management, conducting risk assessment for designing preventive investment and implement necessary measures for achieving appropriate risk management and crisis management following to SFDRR.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to making a plan of risk management and crisis management
- (2) Ability to conducting risk assessment for designing preventive investment
- (3) Ability to implement necessary measures for achieving appropriate risk management and crisis management
- (4) Ability to design necessary governance and communication with related stakeholders

2. Course Outline :

1. Introduction: Framework of SFDRR and four priorities for action
2. Understanding Risk (SFDRR-Priority1)
3. Understanding Risk (SFDRR-Priority1)
4. Risk Governance (SFDRR-Priority2)
5. Methodology for assessing socio-economic impact (SFDRR-Priority 3)
6. Methodology for assessing socio-economic impact (SFDRR- Priority 3)
7. Example of assessing direct impact (SFDRR- Priority 3)
8. Example of assessing indirect impact (SFDRR- Priority 3)
9. Disaster information dissemination in Japan (SFDRR-Priority 4)
10. Disaster information dissemination in Asia, Dr. Minami (SFDRR- Priority 4)
11. Emergency response /Timeline (SFDRR- Priority 4)
12. Risk finance and impact on Business sector (SFDRR- Priority 4)
13. Risk-based land use management (SFDRR- Priority 4)
14. Build Back Better (SFDRR- Priority 4)
15. Presentation, discussion, and evaluation

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the examples of risk management and crisis management by searching lecture materials and related research papers, which will support their research.

3. Grading :

Students will deepen their understanding of risk management and crisis management through lectures and the final examination and will be graded from A to D or E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks : (4-1:Required 4-2:Others)

At Risk: Natural Hazards, People's Vulnerability and Disasters, Piers Blaikie, 2003.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3000E

講義名[日本語(英語)] / Class Name : Earthquake Hazard Assessment A

担当者 (フルネーム) / Course instructor (Full Name) : Dr. Hiroto Nakagawa

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring

単位数/ Credits : 2

1 Course Description and the Learning Objectives

[Course Description]

This course is designed so that students understand fundamental ideas on earthquake hazard evaluation for specific locations when an earthquake and soil condition is given. The students are expected to acquire knowledge of relevant topics such as geotechnical site investigation, soil dynamics, and strong earthquake motion observation. The students also learn about recent studies on strong earthquake ground motions and seismic hazard analysis to mitigate future earthquake disasters.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand fundamental ideas on earthquake hazard evaluation for specific locations
- (2) acquire knowledge of geotechnical site investigation, soil dynamics, and strong earthquake motion observation
- (3) learn about recent studies on strong earthquake ground motions and seismic hazard analysis to mitigate future earthquake disasters.

2 Course Outline (Course Topics)

(1-3) Soil Test and Survey

- Basic Properties of Soil
- Planning for Geotechnical Investigation
- Geophysical prospecting
- Drilling and Sampling
- Sounding
- (4-6) Soil Dynamics
 - Fundamentals of soil mechanics and site investigation
 - Dynamic soil properties
 - Liquefaction
 - Seismic response analysis of layered soil system
- (7-12) Strong Ground Motion Study I
 - Ground motion prediction equation
 - Probabilistic seismic hazard analysis
 - Hand calculation of seismic hazard curve
 - Seismic hazard map
- (13-15) Strong Ground Motion Study II
 - Recent studies on strong ground motions
 - Empirical Green's function method
 - Recipe for predicting strong ground motion

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about earthquake hazard assessments by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3 Grading

Class discussions (50%) and reports on practices (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4 Textbooks

Lecture notes and the necessary materials will be provided.

5 Software Used in Lectures (If not applicable, it can be left blank.) :

6 Auditing ; Allow or Not Allow

否 Not Allow

7 Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3010E

講義名[日本語(英語)] / Class Name : Earthquake Risk Assessment

担当者 (フルネーム) / Course instructor (Full Name) : 小豆畑 達哉 / AZUHATA Tatsuya

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn fundamental theories and concrete technologies to mitigate seismic disasters due to the collapse of buildings. In the first part, students are expected to acquire knowledge of seismic evaluation methods for existing buildings and various techniques for retrofitting vulnerable ones. Those are countermeasures that should be done before an earthquake. In the second part, students are expected to acquire knowledge of quick inspection and damage classification methods for damaged buildings and various techniques for repairing them. Those are countermeasures that should be taken after an earthquake. The quick inspection lectured in this course also covers the structural health monitoring based on the system identification theory.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand the outlines and significance of earthquake risk assessment, mainly focusing on building structures,
- (2) acquire knowledge of seismic evaluation and retrofit techniques of existing buildings and
- (3) quick inspection and damage classification of damaged buildings and repair techniques for them.

2. Course Outline :

(1-18) Seismic evaluation methods and Seismic retrofits of existing buildings

- Evaluation concepts and methods
- Rehabilitation strategy
- Case studies

(19-21) Quick inspection, Damage classification, and Repairing of damaged buildings

- Outline and role of quick inspection
- Outline and role of damage evaluation
- Rehabilitation Technique Examples

(22-24) System identification

- Theory and methods of system identification
- Identification of structural characteristics of buildings

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about earthquake risk assessments by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading :

Class discussions (30%) and reports on practices (70%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3030E

講義名[日本語(英語)] / Class Name : Tsunami Hazard Assessment

担当者 (フルネーム) / Course instructor (Full Name) : 芝崎 文一郎 / SHIBAZAKI Bunichiro

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

To manage tsunami risk and administer tsunami disaster prevention, it is essential for students to prepare a tsunami hazard map that identifies the areas that are likely to flood and sustain damage under different tsunami scenarios.

The objective of this course is to study the knowledge and the techniques necessary for assessing the hazards of a tsunami by numerical simulations of tsunami propagation and inundation, preparing a tsunami hazard map, planning for evacuation, and educating the residents about disaster prevention in case of a tsunami.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) acquire knowledge of tsunami propagation and inundation and skills for their numerical simulations
- (2) acquire the knowledge of tsunami hazard map and evacuation planning
- (3) understand the method of Tsunami Damage Survey
- (4) acquire knowledge of tsunami education

2. Course Outline :

(1)-(3) Tsunami Hazard Assessment —Theory of Tsunami Propagation and Inundation Simulation

- Shallow water theory
- Tsunami propagation model and finite difference method
- Numerical model of tsunami (TUNAMI-N1, Linear model)

- Numerical model of tsunami (TUNAMI-N2, Non-linear model)

- Practice to run the model

(4)-(9) Numerical Simulation of Tsunami Inundation and Its Application

- Theory of the long-wave model

- Finite difference method for the long-wave model

- Simulation exercises for tsunami propagation and inundation

(10)-(14) Tsunami Hazard Map and Evacuation Planning

- Tsunami Hazard Mapping

- Tsunami Evacuation Planning

- Tsunami Evacuation Simulation

- Case studies and Workshop

(15)-(17) Tsunami Damage Survey

- Examples of tsunami damages

- Survey method and the theory

- Matters to be attended in field survey

- Exercise

(18) Tsunami Education

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about the covered subjects by searching lecture notes and related research papers, and prepare themselves to have courses related to tsunami hazard assessment.

3. Grading :

Class discussions (50%) and reports on practices (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3040E

講義名[日本語(英語)] / Class Name : Tsunami Countermeasures

担当者 (フルネーム) / Course instructor (Full Name) : 藤井 雄士郎 / FUJII Yushiro

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn the techniques and methods necessary as tsunami countermeasures. In the first part, students are expected to acquire the knowledge of tsunami force, various tsunami protection facilities, and tsunami refuge buildings. Through field studies students will also observe the actual tsunami protection facilities in the course. In the second part, students are expected to acquire the techniques and methods for tsunami observation, tsunami early warning systems and warning dissemination.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand outlines, techniques and methods necessary for tsunami countermeasures,
- (2) acquire knowledge of tsunami force, various tsunami protection facilities, and tsunami refuge buildings and
- (3) techniques, principles and methods for tsunami observation, tsunami early warning systems and warning dissemination.

2. Course Outline :

(1)-(3) Tsunami Protection Facility

- Great breakwater at bay mouse at Kamaishi City
- Kamaishi Port, Offshore GPS wave gauge

(4)-(6) Tsunami Damage and Reconstruction I

- Collapsed and/or fallen RC buildings at Onagawa Town
- Evacuation places, Tsunami memorial park at Rikuzentakata City

(7)-(9) Tsunami Damage and Reconstruction II

- Devastated buildings by the 2011 tsunami at Minamisanriku Town
- Remain of disaster prevention office building
- Great tide wall at Miyako City (former Taro Town)
- Evacuation places
- Sign boards of tsunami heights by historical earthquakes
- Koborinai fishing port

(10) Tsunami Deposit Survey

- Sendai, Arahama Beach, Tagajo, Ishinomaki
- Tsunami inundation area and Highway of eastern Sendai
- Tsunami deposits by the 869 Jogan and 2011 Tohoku earthquakes

(11)(12) Tsunami Observation

- Sea Level Observation Method
- Tidal Data Analysis
 - Ocean Tide Component Removal, Filtering, Tsunami Measurement
- Tidal Station Tour
- Practice on Tsunami Measurement

(13)-(16) Tsunami Early Warning System and Warning Dissemination

- Outline of Tsunami Warning Service
 - National Tsunami Warning Service, International Tsunami Information Service
- Tsunami Estimation

(17) Tsunami Force and Tsunami Resistant Structure

- Tsunami mitigation
- Design formula of tsunami force
- Experiment of tsunami force in a large flume
- Tsunami observation and GPS buoy system

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. Also, be sure to have an overview of the tsunami countermeasure facilities that you will visit in advance. After the lecture, review the content and submit the assigned report by the due date. Students can learn about tsunami countermeasures by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading :

Class discussions (30%) and reports on practices (70%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3050E

講義名[日本語(英語)] / Class Name : Earthquake Hazard Assessment B

担当者 (フルネーム) / Course instructor (Full Name) : 林田 拓己 /HAYASHIDA Takumi

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn microtremor observation techniques and data processing procedures, seismic reflection methods, design earthquake ground motion, and nonlinearity of the site amplification to understand methodologies of earthquake hazard evaluation for specific locations when an earthquake environment is given.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (3) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) acquire knowledge of microtremor observation techniques and data processing procedures
- (2) acquire knowledge of principles of seismic reflection methods
- (3) understand methodology of how to generate design earthquake ground motion for engineering purpose
- (4) understand nonlinearity of the site amplification

2. Course Outline :

(1-3) Microtremor Observation II

- Passive source exploration: Horizontal-to-vertical (H/V) spectral ratio
- Passive source exploration: Spatial autocorrelation (SPAC) method
- Active source exploration: Multichannel analysis of surface waves (MASW)

(4-9) Geophysical Prospecting

- Seismic refraction exploration
- Seismic refraction analysis

(10-12) Simulation of Seismic Ground Motion

- Seismic provisions in the building standard law of Japan
- Define and generate design earthquake ground motions for buildings

(13-15) Seismic Micro-Zonation

- Geomorphologic classification
- Amplification capability estimation from geomorphologic units
- Remote sensing technology and damage estimation
- Interferometric SAR (InSAR) Technology for DEM Generation
- Nonlinearity of site amplification during strong ground motions

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about the covered subjects by searching lecture notes and related research papers, and understand methodologies of earthquake hazard evaluation for specific locations.

3. Grading :

Report assignments (50%) and examinations (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

Excel, FORTRAN, Python

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3200E

講義名[日本語(英語)] / Class Name : Earthquake Phenomenology

担当者 (フルネーム) / Course instructor (Full Name) : 北 佐枝子 / KITA Saeko

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 3

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn the techniques and methods necessary as determinations of earthquake parameters and understanding earthquake phenomena. Practical training of determinations of hypocenter and magnitude, and earthquake observations are included. Students are expected to acquire the techniques and methods for earthquake observation, identification of seismic phases, analyses of local earthquakes, magnitude calculation, seismicity, crust and upper mantle structure and earthquake early warning systems through lectures and practical trainings.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand outlines, techniques and methods necessary for earthquake observation and obtaining earthquake parameters.
- (2) acquire knowledge of earthquake observation, determinations of hypocenter and magnitude, and earthquake early warning systems and warning dissemination.

2. Course Outline :

- (1-6) Earthquake Observation I
- (7-12) Local Earthquake Analysis I
- (12-18) Teleseismic Phases and Magnitudes
- (19-21) Earthquake Early Warning I
- (22-24) Crust and Upper Mantle Structure

[Out-of-class Learning]

After the lecture, review the content and submit the assigned report by the due date. Students can learn about earthquake phenomenology by reviewing lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading :

Class discussions (30%) and reports on practices (70%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3210E

講義名[日本語(英語)] / Class Name : Characteristics of Earthquake Disasters

担当者 (フルネーム) / Course instructor (Full Name) : 原 辰彦 / HARA Tatsuhiko

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 3

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn knowledge of theories essential for seismological data processing, basic theories of numerical simulation of seismic wave propagation, and understand effects of surface geology on seismic motion. Underground shear waves velocity structure gives large influences on seismic waves propagation and amplification, and dynamic behavior of soft sedimentary layers near the earth's surface. Students also learn about broadband moment magnitude.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- acquire knowledge of theories essential for seismological data processing
- acquire knowledge of basic theories of numerical simulation of seismic wave propagation,
- understand the effects of surface geology on seismic motion and
- acquire knowledge of broadband moment magnitude

2. Course Outline :

(1-12) Data Processing

- Least squares method (Introduction to inverse problem, Straight line fitting, General linear least squares, Linear inversion under constraints, Iterative procedure to solve non-linear problem)
- Processing of discrete time series (Linear system, Discrete Fourier transform (DFT), Fast Fourier transform (FFT), Digital filters)

(13-18) Numerical Simulation of Seismic Wave Propagation

- Basic theory of seismic wave propagation.
- Propagator matrix method.
- Numerical method (Finite-difference method).

- Simulation of seismic wave propagation using PC

(19-24) Effect of Surface Geology on Seismic Motion

- Site effects in seismic design
- Site effects and seismic bedrock
- Calculation of 1D site effects
- 2/3D site effects
- Site effects in strong motion records
- Application of microtremors in estimation of site effects
- Microtremor array exploration for subsurface S-wave velocity
- Inversion of subsurface S-wave velocity from earthquake records

(25-29) Determination of Broadband Moment Magnitude

- Basic concept of broadband moment magnitude (Mwp)
- Comparison of various magnitude scales (e.g., mb, Ms, Mw, Mm)
- Procedure of determination of Mwp
- Practices to determine Mwp

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about the covered subjects by searching lecture notes and related research papers, and prepare themselves to have courses related to earthquake hazard assessment.

3. Grading :

Report assignments (60%) and examinations (40%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :
Python, Fortran, Cygwin, SAC (Seismic Analysis Code), MS-Excel

6. Auditing ; Allow or Not Allow
☒ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3220E

講義名[日本語(英語)] / Class Name : Earthquake Circumstance

担当者 (フルネーム) / Course instructor (Full Name) : 芝崎 文一郎 / SHIBAZAKI Bunichiro

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 3

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students understand earthquake circumstances, such as earthquake mechanisms and generation processes of earthquakes. First, basic lectures on practical mathematics for seismology are given. Then, lectures and practices on earthquake focal mechanisms and moment tensors are given to help understand earthquake circumstances. Finally, the current research of earthquake generation and forecasting is introduced to understand earthquake circumstances.

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[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) acquire knowledge of theories essential for mathematics for seismology
- (2) acquire knowledge of fundamental theories of earthquake focal mechanisms and moment tensors and
- (3) understand earthquake generation and forecasting

2. Course Outline :

(1-16) Mathematics for Seismology

- Ordinary Differential Equations
- Fourier Series, Fourier Transform
- Wave Equations
- Matrix Algebra, Eigenvalue Problem, Diagonalization
- Vector Analysis

(17-21)Earthquake generation and forecasting I

- Earthquake kinematics and dynamics
- Stress drop estimation
- Earthquake preparation process
- Earthquake cycles and long-term forecasting

(22-27)Earthquake Focal Mechanism

- Terms and parameters of seismic fault
- Radiation Pattern
- Focal mechanism diagram
- Determination of focal mechanism by P-wave first motion method

(28-33)Analysis of Moment Tensors

- Forward modeling and inversion
- Double couple model
- Moment tensor
- Theory of moment tensor inversion
- Practice in moment tensor inversion

Examination/report

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about the covered subjects by reviewing lecture notes and related research papers and preparing themselves for courses related to earthquake circumstances.

3. Grading :

Report assignments (50%) and examinations (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3230E

講義名[日本語(英語)] / Class Name : Information Technology Related with Earthquakes and Disasters

担当者 (フルネーム) / Course instructor (Full Name) : ITO Eri

学期・曜日・時限 / Term・Day・Period : 秋、冬 /Fall, Winter/

単位数/ Credits : 3

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn the basics of information technology related to earthquakes and disasters and acquire the ability to utilize them through a series of lectures and practices. First, students will understand important Unix/Linux commands and obtain basic knowledge of shell scripting. Students also learn major computer languages in seismological research (Fortran90 and Python), mapping tool (Generic Mapping Tools; GMT), and basic theories of seismic waves.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- understand the features and uses of Linux and operate Linux by using commands.
- understand the structure of shell scripts.
- create maps and scientific figures using GMT.
- write computer programs for simple numerical calculations.
- understand basic theories of seismic waves.

2. Course Outline :

- (1-27) Computer
 - Unix/Linux

- GMT
- Fortran
- Python

(28-45) Theory of Seismic Waves

- Basic Elasticity Theory
- Elastic wave equation; P and S waves
- Reflection and refraction of plane elastic waves on a horizontal boundary
- Introduction to surface

(46-48) Surface Waves

- Overview of surface-wave generation and propagation
- Surface wave dispersion: Frequency-dependence of phase and group speeds
- Measurements of phase and group dispersion curves from waveform analyses
- Inversion of surface-wave dispersion data for crust and upper mantle structures
- Surface wave tomography: lateral heterogeneity and anisotropy

(49-51) Scattering and Attenuation

- Stochastic modeling of small-scale heterogeneities in the crust and upper mantle: in contrast with a deterministic approach
- Scattering and attenuation in the crust and upper mantle (1): coda waves
- Regional variation of coda waves, and applications to site and source effects (including scaling laws of seismic sources)
- Location estimation of volcanic tremors and landslides as an example of applications of high-frequency scattered waves
- Scattering and attenuation in the crust and upper mantle (2): direct waves
- Anelastic attenuation of seismic waves: mechanism, measurement, frequency dependency, regional variation (if time is available)

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about the subjects covered by searching lecture notes and related textbooks and preparing themselves for Linux, computer programs, and seismic wave theories.

3. Grading :

Report assignments (50%) and examinations (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)
Lecture notes and necessary materials are provided.
5. Software Used in Lectures (If not applicable, it can be left blank.) :
6. Auditing ; Allow or Not Allow
否 Not Allow
7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3400E

講義名[日本語(英語)] / Class Name : Structural Analysis

担当者 (フルネーム) / Course instructor (Full Name) : 大塚 悠里 / OTSUKA Yuri

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 3

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn the fundamental concepts and principles for structural analysis, such as displacement and stress methods using matrix formulation. In the first part, students are expected to acquire knowledge of the basic concepts of the finite element method, focusing on solving static linear problems using iso-parametric element models. In the second part, students are expected to acquire knowledge of the member models and basic concepts of the direct stiffness method for the non-linear frame analyses of buildings. In the third part, students learn to evaluate the seismic responses of buildings following the instructions of computer programs.

[Related Diploma Policy (DP)]

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand the outlines and significance of structural analysis, mainly focusing on building structures,
- (2) acquire knowledge of seismic evaluation and elasto-plastic analysis techniques of buildings
- (3) comprehend to the evaluate the seismic response of buildings using computer software.

2. Course Outline :

(1-15) Structural Analysis

- Fundamental concepts and principles of structural analysis
- Displacement method and force method by matrix formulation
- Exercise for displacement method and force method

(16-24) Finite Element Method I

- Elasto-plastic analysis of structure

- Exercises for elasto-plastic analysis of structure
- Basic concept of finite element method
- Exercises using computer software for static linear problems
- Nonlinear member models for frame analysis of buildings
- Evaluation of earthquake responses of buildings

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about structural analysis by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading :

Examination results for structural analysis (50%) and reports on practices (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3410E

講義名[日本語(英語)] / Class Name : Ground Vibration and Structural Dynamics

担当者 (フルネーム) / Course instructor (Full Name) : 中川 博人 / NAKAGAWA Hiroto

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 3

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn fundamental theories to understand the behaviors of grounds and structures subjected to dynamic loadings. In the first part, the students are expected to acquire basic theories of dynamic behaviors of structures based on SDOF (Single-Degree-Of-Freedom) and MDOF (Multi-Degree-Of-Freedom) systems. In the second part, the students are expected to acquire knowledge of the dynamic response of structures through practice in computer programming of typical structural dynamics calculations based on the SDOF system. Also, the students understand the effects of surface geology on seismic motions.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) acquire basic theories of dynamic behaviors of structures based on SDOF and MDOF systems
- (2) acquire knowledge of the dynamic response of structures through practice in programming
- (3) understand the effects of surface geology on seismic motions.

2. Course Outline :

(1-12) Structural Dynamics I

- Free vibration of SDOF system
- Forced vibration of SDOF system
- Free vibration of MDOF system
- Forced vibration of MDOF system

(13-24) Structural Dynamics II

- Fortran 95 programming

— Response of SDOF system

— Response spectrum

— Fourier spectrum

(25-27) Effect of Surface Geology on Seismic Motion I

— Site effects in seismic design

— Site effects and seismic bedrock

— Calculation of 1D site effects

— 2/3D site effects

— Site effects in strong motion records

(28-30) Effect of Surface Geology on Seismic Motion II

— Application of microtremors in estimation of site effects

— Microtremor array exploration for subsurface S-wave velocity

— Inversion of subsurface S-wave velocity from earthquake records

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about ground vibration and structural dynamics by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading :

Examinations (50%) and reports on practices (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3420E

講義名[日本語(英語)] / Class Name : Seismic Structures

担当者 (フルネーム) / Course instructor (Full Name) : WATANABE Hidekazu

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 3

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn the seismic design of structures based on their elastic-to-plastic behaviors under earthquakes and the required performance. Students are expected to acquire knowledge of the mechanical properties of the materials, elastic-to-plastic behaviors of structural members and joints, seismic behaviors of the entire structures and their failure characteristics through the seismic experiences, results of structural experiences, and theoretical approaches. Students will also learn the various design factors that dominate the seismic behavior of structural members and systems based on the seismic design methods used in practice. Through the structural test for RC members, students will observe the actual structural performance in the course.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand the outline of seismic design of structures based on their elastic-to-plastic behaviors under earthquakes and the required performance,
- (2) acquire knowledge of structural performance, failure properties and design procedure of RC members and
- (3) acquire knowledge of design procedure of steel members and connections.

2. Course Outline :

(1-3) RC Structures I

Design Practice for RC members and Evaluation of the Structural Performance. The failure properties of RC members predicted by the equations are as follows.

- (1) Crack of concrete
- (2) Yield of reinforcement
- (3) Ultimate strength for flexure and shear, etc.

(4-13) Steel Structures

- Outline of steel structures in Japan
- Materials
- Basic items for structural design of steel structure
- Design of tension members
- Design of compression members
- Design of beams
- Design of beam-columns
- Bolted connections
- Welded connections
- Beam-to-column connections
- Column-to-footing connections

(14-23) Structural Testing I, II

Outline of Structural Testing

- Objectives of Dynamic and Static Testing
- Relationships Between Structural Test, Structural design, Analysis and Earthquake Damages
- Tests for Materials, Structural Members and Full-scale Structures
- Testing Facilities
- Specimens
- Loading
- Measuring

Practice of Structural Static Testing

- Test Specimens
- Loading Setup
- Measuring Setup and Data Acquisition System
- Installing Technique of Strain Gauges
- Static Loading Test of RC elements
- Comparison between the Results of Design, FEM Analysis and Test
- Technical Report

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about seismic structures by searching lecture notes and related research papers and preparing themselves in relation to their own research objectives.

3. Grading:

Reports on RC and steel structures (60%) and reports on the structural testing (40%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1: Required 4-2: Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing: Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3803E

講義名[日本語(英語)] / Class Name : Geographic Information Systems and Remote Sensing Technique

担当者 (フルネーム) / Course instructor (Full Name) : Rasmy Mohamed and KAWASAKI Akiyuki/Rasmy Mohamed, 川崎 昭如

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1 Course aims & objectives

Remote sensing entails obtaining information about the Earth's surface using special cameras/devices. A geographic information system (GIS) is a computer system for capturing, storing, checking, analyzing, and displaying mostly huge and complex geographic information. The fields of Remote Sensing and GIS are expanding very fast and the methods are constantly adapted to new fields of application.

[Course Goals]

The objective of this course is to introduce the basic theory and practices of remote sensing (RS) and geographic information systems (GIS) and how they can be applied to water-related disaster management research, planning, and decision-making processes. The course is delivered through lectures, hands-on training, exercises, assignments, and a group-seminar.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to understand the basic GIS and satellite remote sensing principles
- (2) Ability to execute, analyze, and visualize the outputs from the latest available tools (e.g. ArcGIS and QGIS), and their applications in hydrology
- (3) Ability to work with big data and advanced cutting-edge tools for big-data processing methods (e.g. Google Earth Engine and cloud computing) for rainfall estimation and inundation mapping.

2 Course Topics

- 1 : Geographic Information System (GIS) (1) Understanding GIS data structures
- 2 : Geographic Information System (GIS) (2) ArcGIS Data management
- 3 : Geographic Information System (GIS) (3) ArcGIS Data processing
- 4: Geographic Information System (GIS) (3) ArcGIS Spatial analysis
- 5 : Geographic Information System (GIS) (4) ArcGIS Hydrology analysis (1)

- 6 : Geographic Information System (GIS) (5) ArcGIS Hydrology analysis (2)
- 7 : Geographic Information System (GIS) (6) Working with Q-GIS
- 8 : Remote Sensing (1) Basic principles of optical and thermal satellite remote sensing
- 9 : Remote Sensing (2) Basic principles of microwave remote sensing and rainfall estimation
- 10 : Remote Sensing (3) Inundation Mapping (1) MODIS images & water indices
- 11: Remote Sensing (4) Inundation Mapping (2) Case studies using MODIS data
- 12: Remote Sensing (5) Satellite rainfall estimation (1) GSMap data processing
- 13: Remote Sensing (6) Satellite rainfall estimation (2) GSMap data applications
- 14: Big-data processing and Applications (1) Google Earth Engine and cloud computing
- 15: Big-data processing and Applications (2) Group project presentation and evaluation

[Out-of-class Learning]

Study the lecture notes, manuals, and related research papers distributed in this course in advance to understand the lecture outline. After the lecture, review the content and submit the assigned report by the due date. Students can also learn about GIS, remote sensing, and Google Earth Engine applications by searching lecture notes and related research papers online and preparing themselves for their research objectives.

3 Grading

Students will enhance their understanding of hydrological and sediment transport processes and modelling through lectures, hands-on training, assignments and a group project, and will be graded from A to E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

75% points for assignment reports

25% points for the group project

Remarks: The late submission of the reports and assignments will not be evaluated.

4 Textbooks

4-1 Required Material made by the instructors

4-2 Others

5. Software Used in Lectures (If not applicable, it can be left blank.) :

ArcGIS, Q-GIS, Google Earth Engine

6. Auditing; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3811E

講義名[日本語(英語)] / Class Name : River Engineering

担当者 (フルネーム) / Course instructor (Full Name) : SHIMIZU Yoshihiko / 清水 義彦

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

A river has a naturally-based form in general but has changed by influences of human impacts. The purpose of this course is to understand such characteristics of rivers caused by natural and human impacts and to learn the basics and their applications of river channel design and river management with safety against flood disasters and conservation of river environment.

[Course Goals]

This course enables students to acquire the implementation methodology of “River Engineering” linking knowledge of “Hydraulics” and “Sediment Transport Mechanics”.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

1. Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
3. Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
4. Ability to identify an issue, analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

2. Course Outline :

(1) Fundamental characteristics of river basin and channel morphology (three classes)

- Drainage basin zones and some channel formation types,
- Typical longitudinal variation in channel properties from headwater to river mouth,
- Morphological classification of channel plane-form pattern.

(2) Basics and practice for river channel design (three classes)

- Applications of specific energy and specific force,
- Channel design by using uniform and non-uniform flow analysis,
- Evaluating flow resistance due to lateral variation of roughness in a cross-section.

(3) Flood hydraulics and its applications (three classes)

- Characteristics on time and space propagation of water level and flood discharge by using unsteady one-dimensional flow analysis,
 - Transformation of water level and discharge hydrographs,
 - Function of dam and flood retarding facility.
- (4) Depth-averaged flow approach (three classes)
- Basic equations on depth-averaged flow and river bed variation analysis,
 - Channel flow with a narrow path
 - Meandering channel, Flow with riparian forest, Flow with bars
- (5) Function of river hydraulic structure (three classes)
- Hydraulic function of groyne, Consolidation works with a hydraulic drop,
 - Levee design, Local scouring around the pier,
 - Traditional measures for flood fighting

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the basics of river engineering by searching lecture materials and related research papers, which will support their research.

3. Grading :

Students will deepen their understanding of the hydrological phenomena and its system through lectures and the final examination and will be graded from A to D or E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks : (4-1:Required 4-2:Others)

Textbook will be distributed to students in the class.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow
Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3821E

講義名[日本語(英語)] / Class Name : Sediment Transport Mechanics

担当者 (フルネーム) / Course instructor (Full Name) : QIN Menglu and EGASHIRA Shinji / 秦
梦露, 江頭 進治

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1. Course aims and objectives

Sediment transportation takes place in various forms such as bed-load, suspended load, debris flow etc. and its spatial imbalance causes river bed degradation and aggradation, side bank erosion, sand bar formation and channel shifting. Such channel changes will be suitable for ecological systems, if they are within an allowable level. However, if these are over some critical level, flood and sediment disasters will happen.

[Course Goals]

This course requires students to understand various sediment transport forms and their transport rates in rivers as well as governing equations for describing flood flow and sediment transport systems for evaluating channel changes with various geometric scales such as sediment particles sizes, flow depths, flow widths etc. Students also are required to understand sediment management for disaster mitigation as well as for developing a suitable river channel conditions.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

2. Course Topics and Methods

1: Introduction (1)

- Characteristics of sediment

2: Introduction (2)

- Sediment transportation and corresponding channel changes

- Methods to evaluate channel changes
- 3: Mechanics of sediment transportation (1)
 - Parameters associated with sediment transportation
- 4: Mechanics of sediment transportation (2)
 - Critical condition for initiating bed load
- 5: Mechanics of sediment transportation (3)
 - Bed load formulas
- 6: Mechanics of sediment transportation (4)
 - Bed load formulas
- 7: Mechanics of sediment transportation (5)
 - Extension of bed load formula to non-uniform sediment
- 8: Mechanics of sediment transportation (6)
 - Suspended load
- 9: Mechanics of debris flow (1)
 - Constitutive equations
 - Debris flow characteristics over erodible beds
- 10: Mechanics of debris flow (2)
 - A bed load formula derived from constitutive equations
- 11: Bed forms and flow resistance (1)
 - Geometric characteristics of bed forms
 - Formative domain of bed forms
- 12: Bed forms and flow resistance (2)
 - Flow resistance
- 13: Prediction of channel changes (1)
 - Governing equations employed in steep areas
 - Topographic change in steep areas
- 14: Prediction of channel changes (2)
 - Governing equations employed in alluvial reaches
 - Topographic change in alluvial reaches
- 15: Method to predict sediment transport process in drainage basins
 - Sediment management in drainage basin

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about Mechanics of

Sediment Transportation and Channel Changes by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading

River bed variations are evaluated using the sediment transport system equations that are constituted by the continuity equation and equation of motion for flood flow, the mass conservation equation of sediment in the flow body, the equations of sediment erosion and deposition for suspended sediment, the mass conservation equation for bed sediment, and the bed load formula. Students will deepen their understanding of the sediment transport system through lectures, reports and examination, and will be graded from A to D or E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

50 points for reports and short quizzes

50 points for the examination at the end of semester

Notice: Either a report or a short quiz is assigned every two classes, regarding questions illustrated at the end of each chapter in Lecture Note.

4. Textbooks

4-1 Required

- Egashira, S. (2009): Mechanics of Sediment Transportation and River Changes, Lecture Note

4-2 Others

- turn, T. W. (2001): Open Channel hydraulics, McGraw-Hill.
- Graf, W. H. (1997): Fluvial Hydraulics, Wiley.
- Julien Pierre: River Mechanics, Cambridge University Press
(Website: <http://www.cambridge.org/us/catalogue/catalogue.asp?isbn=9780521529709>)
(<http://www.amazon.co.jp/River-Mechanics-Pierre-Y-julien/dp/0521529700>)
- Albert Gyr and Klaus Hoyer: Sediment Transport, A Geophysical Phenomenon, Springer Netherlands
(<http://www.springerlink.com/content/q0x656/>)
- Ashida K., Egashira S. and Nakagawa H. (2008), River Morphodynamics for the 21st Century, Kyoto University Press (in Japanese)

5. Software Used in Lectures (If not applicable, it can be left blank.):

6. Auditing; Allow or Not Allow

Not Allow

7. Note:

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3840E

講義名[日本語(英語)] / Class Name : Control Measures for Landslide & Debris Flow

担当者 (フルネーム) / Course instructor (Full Name) : Prof. YAMAGUCHI Shinji

学期・曜日・時限 / Term・Day・Period : 秋、冬 / Fall through Winter/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Landslides, debris flows and sediment-laden flood give serious impacts for human lives and infrastructures by not only direct hitting, but also discharge for downstream area in many countries. This course provides the key issues of landslide, debris flow and sediment-laden flood phenomena. Then, structural and non-structural countermeasures to reduce damages due to both direct hitting and sediment discharge to downstream. The lecture will also illustrate the sediment yield preventions works, such as revegetation works, on hillslopes. For non-structural countermeasures, the basic information about the hazard mapping and the early-warning systems will be provided.

[Course Goals]

This course requires students to understand various natural phenomena related to landslide and debris flow and to have ideas for various type of control measures on such disasters.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

2. Course Outline :

Week

1. Outline of sediment-related disasters and Sabo projects (Prof. Yamaguchi)
2. Sediment yield and discharge (Prof. Uchida)
3. Sabo planning for debris flow and sediment discharge control (Prof. Uchida)
4. Structural countermeasures against debris flow and sediment discharge (Prof. Uchida)
5. Hazard mapping for debris flows (Prof. Uchida)
6. Landslides- phenomenon and mechanism (Mr. Takeshi)
7. Planning for landslide (Mr. Takeshi)

8. Structural countermeasures against landslide (Mr. Takeshi)
9. Hazard mapping for landslides (Mr. Takeshi)
10. Warning and evacuation system for sediment-related disasters (Mr. Okamoto)
11. Restoration of vegetation on wasteland and its effect (Mr. Okamoto)
12. Dams and River Basin Sustainability (Prof. Sumi)
13. Sediment Management in Reservoirs (Prof. Sumi)
14. Application of Sabo/landslide projects to each country (1) (Prof. Yamaguchi Prof. Uchida)
15. Application of Sabo/landslide projects to each country (2) (Prof. Yamaguchi, Prof. Uchida)

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about Control Measures for Landslide & Debris Flow by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading :

Class contribution (30%) Report and Final discussion (70%)

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

4-1 Required

4-2 Others

SABO in JAPAN : Japan Sabo Association, 2018

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3901E

講義名[日本語(英語)] / Class Name : Field Inspection Study

担当者 (フルネーム) / Course instructor (Full Name) : KOIKE Toshio／小池 俊雄

学期・曜日・時限 / Term・Day・Period : Fall through Summer 秋－夏

単位数/ Credits : 2

1 Course Description

This course provides opportunities for students to visit actual fields to study structural countermeasure and flood control practice in Japan so that they would experience and understand the concept and ideas that can possibly be introduced to their countries. The course shall provide insight of structural countermeasures, which include but not limited to, river levees, flood retarding basins, dams, and Sabo structures. After each study-visit, students will be requested to submit a report describing the lessons they have learnt and discussion of any possibility to introduce the concept to their countries.

[Course Goals]

Through literature review, and field experience, students will gain a deep and broad understanding of the diverse natural and social characteristics underlying water-related disasters in Japan.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

1. Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
2. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
5. Ability to play an active role as a balanced leader based on a deep understanding of different values and systems in a global society

2. Course Outline :

- 1) Introductory lecture (two classes)
- 2) Kinu River (two classes)
- 3) Rivers in Shikoku Area (three classes)
- 4) Kokai River (one class)
- 5) Shinano River (three classes)
- 6) Tone River (one class)
- 7) Fuji River and Kano River (three classes)

[Out-of-class Learning]

Read the related documents and reports distributed in this course in advance to understand the site visit outline. After each site visit, students will be required to submit a report. The report topic will be announced prior to each site visit.

3. Grading :

This course focuses on sharing the knowledge gained in Japan. Active discussion at each site based on students' preparatory studies and comprehensive reports are highly valued.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks : (4-1:Required 4-2:Others)

Documents for each site will be distributed to students in the class.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP3911E

講義名[日本語(英語)] / Class Name : Open Channel Hydraulics and Practice

担当者 (フルネーム) / Course instructor (Full Name) : Prof. NAITO Kensuke

学期・曜日・時限 / Term・Day・Period : Fall through Spring 秋－春

単位数/ Credits : 2

1 Course Description

In this course, students will learn to apply the theories studied in Hydraulics through exercises, observation of real flow through the hydraulic experiments, and hydraulic calculations, enabling them to use the theoretical framework of Hydraulics for analyzing real phenomena. The class will not only consist of lectures but also include group experiments, discussions, and individual applications of hydraulic analysis to various fields.

[Course Goals]

The learning goals for the students in this lecture are to be able to describe hydraulic phenomena using hydraulic theory, particularly to be able to depict water surface profile using hydraulic theory.

2 Course Outline (Course Topics)

- 1: Open channel flow (1): Introduction and review of governing equations
- 2: Open channel flow (2): Simplification of equations
- 3: Open channel flow (3): Water surface profile (1)
- 4: Open channel flow (4): Water surface profile (2)
- 5: Experimental work (1): Outline of the experiments
- 6: Experimental work (2): Hydraulic conditions
- 7: Experimental work (3): Flow resistance
- 8: Experimental work (4): Hydraulic jump
- 9: 1-D flow calculation (1): Water surface profile (1)
- 10: 1-D flow calculation (2): Water surface profile (2)
- 11: 1-D flow calculation (3): Sediment transport (1)
- 12: 1-D flow calculation (4): Sediment transport (2)
- 13: 2-D flow calculation (1): Water surface profile
- 14: 2-D flow calculation (2): Sediment transport
- 15: Discussions

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date.

3 Grading

Since this class focuses on discussions based on individual data and computation results, active contributions to presentations and discussions are highly evaluated.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4 Textbooks (4-1: Required, 4-2: Others)

4-1 Egashira, S. (2016): Hydraulics, Lecture Note

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing: Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP5000E

講義名[日本語(英語)] / Class Name : Master Thesis Seminar

担当者(フルネーム) / Course instructor (Full Name): KITA Saeko / ITO Mai / FUJII Yushiro

学期・曜日・時限 / Term・Day・Period : 秋～夏 / Fall through Summer

単位数/ Credits : 10

1.[Course Description]

In this course, students tackle specific research subjects applying knowledge, analysis techniques, etc. acquired in this course and all other lectures. Students will meet regularly with course advisors to formulate and discuss their research topics, and the advisors will determine the supervisors based on the students' research interests. All students are requested to make a research proposal and to write a research report and its synopsis. They are also requested to make presentations in the interim presentation meetings to manage their research progress and evaluate the research achievements.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand more advanced and practical knowledge and skills in corresponding the specific course of Seismology, Earthquake engineering, or Tsunami Disaster Mitigation, and
- (2) determine the individual study topics and prepare the research reports, and
- (3) improve their professional skills and complete the research reports aimed at solving problems in their own countries.

2. Course Outline (Course Topics)

[Seismology]

- (1)-(3) Earthquake Observation II
- (4)-(6) Local Earthquake Analysis II
- (7)-(9) Earthquake Early Warning II
- (10)-(15) Seismicity and Statistics
- (16)-(21) Crustal Deformation
- (22)-(24) Earthquake Generation and Forecasting II
- (25)-(33) Earthquakes and Plate Tectonics
- (34)-(42) Earthquake Source Process
- (43)-(45) Study Tour of Earthquake Monitoring (JMA)
- (46)-(49) Real Time Determination of Source Parameter
- (50)-(52) Seismic Tomography
- (53)-(58) Strong Earthquake Motion Observation
- (59)-(61) Microtremor Observation I
- (62)-(64) Seismic Micro-Zonation
- (65)-(70) Tsunami and Earthquake/Earthquake Geology
- (71)-(73) Lessons from the Great East Japan Earthquake of March 11, 2011/Education of Tsunami Disaster Reduction and International Tsunami Warning System

[Earthquake Engineering]

- (1)-(3) Finite Element Method II
- (4)-(6) Limit Analysis
- (7)-(15) Soil Mechanics
- (16)-(21) Structural Response Analysis
- (22)-(24) Shaking Table Testing
- (25)-(27) Dynamic Soil Structure Interaction
- (28)-(33) Microtremor Observation I, II
- (34)-(45) RC Structures II, III, IV
- (46)-(48) Prestressed Concrete Structures
- (49)-(54) Masonry Structures I, II
- (55)-(63) Foundation Engineering I, II, III
- (64)-(66) Underground Structures and Large Soil Deformations
- (67)-(72) Bridge Engineering I, II
- (73) Port & Harbor Structures and Tsunami Engineering

[Tsunami Disaster Mitigation]

(1)-(3) Tsunami Magnitude and Catalogue

(4)-(14) Tsunami Simulation

(15)-(17) Geology for Tsunami

(18)-(20) Tsunami Load and Structural Design of Tsunami Shelter

(21) International Seminar for Disaster Management

(22)-(27) Tsunami and Earthquake/Earthquake Geology

(28)-(30) Earthquake Observation II

(31)-(33) Local Earthquake Analysis II

(34)-(36) Earthquake Early Warning II

(37)-(42) Seismicity and Statistics

(43)-(48) Crustal Deformation

(49)-(51) Earthquake Generation and Forecasting II

(52)-(60) Earthquakes and Plate Tectonics

(61)-(69) Earthquake Source Process

(70-72) Lessons from the Great East Japan Earthquake of March 11, 2011/Introduction
of Tsunami disaster Mitigation

(73) Tsunami Hazard Assessment and the Sendai Framework
for Disaster Risk Reduction

[Works for Master Report]: common for all courses above

Execution of research under your supervisor (analysis, experiment, field survey,
observation, etc.)

(74)-(75) Presentation of interim results

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. Also, be sure to have an overview of the lectures related to the research topics that students will learn in advance. After the lectures, they review the contents and submit the assigned reports by the due date. Students can deeply learn about the individual research themes by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading

Performance and attitude (10%), presentation (50%), report (10%) and discussion (30%) in the preparation of individual study will be evaluated: 100%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks

Lecture notes and necessary materials are provided.

The supervisors will indicate the literatures the students should survey concerning the research subjects.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

FORTRAN, Python, Cygwin, Generic Mapping Tools (GMT), QGIS, R

6. Auditing ; Allow or Not Allow

Not Allow

7. Note : The template for the report will be provided. Students have to make the report following it.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP5310E

講義名[日本語(英語)] / Class Name : Case Study (Practice for Earthquake Disaster - Recovery Management Policy I)

担当者 (フルネーム) / Course instructor (Full Name) : ITO Mai

学期・曜日・時限 / Term・Day・Period : 秋、冬 /Fall, Winter/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn research ethics and literacy, overviews of earthquakes and disasters, or overviews of seismology and earthquake engineering, which are necessary for beginning research on earthquake disaster prevention. The students are expected to present at two colloquiums to prepare for their individual study. At the Colloquium I, students will present their country report to show the current condition of their country and their organizations activity on earthquake disaster prevention, etc. Then, students will discuss them with other students and professors. For the Colloquium II, students will review technical/scientific papers related to their research topics recommended by their advisor. Through the colloquiums, students are expected to obtain the skill to convey their points to audiences accurately.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) learn research ethics and literacy, overviews of earthquakes and disasters, or overviews of seismology and earthquake engineering according to their specialty,
- (2) receive advice and comments on their individual study topics through discussions,
- (3) develop presentation skills.

2. Course Outline :

- (1) Research ethics and literacy
 - Overview of research ethics
 - How to write a scientific report

(2-4) Overviews of earthquakes and disasters, or overviews of seismology and earthquake engineering according to student's specialty

- Basic concepts of earthquake engineering and damage aspects by past earthquakes
- Features of strong ground motion and strong motion estimation

(5-6) Colloquium I

- Presentation of country report

(7-8) Colloquium II

- Reviewing technical/scientific papers related to the individual study topics

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. Prior to the colloquiums, read the research papers related to your individual study, prepare a presentation material and discuss it with your advisor. After the colloquiums, consider topics and direction of individual study in response to questions and comments received at colloquiums.

3. Grading :

Presentation (80%) and discussion (20%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP5320E

講義名[日本語(英語)] / Class Name : Case Study (Practice for Earthquake Disaster - Recovery Management Policy II)

担当者 (フルネーム) / Course instructor (Full Name) : 林田 拓己 / HAYASHIDA Takumi

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn how to write academic papers and conduct academic research, which is important for completing a masters thesis. Students will learn about writing effective English academic papers. At the Colloquium III, students will introduce a tentative plan for their individual study. Students are expected to provide logical explanations of their researchs purpose and methodology and engage in discussions with other presenters. Students will also visit research institutes to learn about earthquake monitoring systems, understand the differences between their countries and Japan, and deepen the discussion.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (2) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (3) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) develop academic writing skills in English.
- (2) develop presentation skills.
- (3) understand earthquake monitoring systems in Japan.

2. Course Outline :

(1-4) How to write a scientific report

- Writing science in English
- Paragraph ordering
- Preparing a cover letter
- Audience analysis
- Recommended research writing resources

(5-6) Colloquium III: Presentation of a tentative plan of individual study

- Seismology Course
- Earthquake Engineering Course
- Tsunami Disaster Mitigation Course

(7-8) Study tour of earthquake monitoring

- National Research Institute for Earth Science and Disaster Resilience
- Geospatial Information Authority of Japan

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. Before the colloquium, write a manuscript on the introduction, data, and methods of the master's thesis and prepare a presentation material. After the colloquium, consider the direction of individual study in response to questions and comments received during the presentation.

3. Grading :

Performance and attitude in the presentation (55%), quality and originality of the individual study report (30%), and discussion (15%) will be evaluated: 100%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP5330E

講義名[日本語(英語)] / Class Name : Case Study (Practice for Earthquake Disaster - Recovery Management Policy III)

担当者 (フルネーム) / Course instructor (Full Name) : 的場 萌子 / MATOBA Moeko

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students visit past earthquake disaster areas and learn methodologies of reconstruction management for damaged areas and earthquake disaster mitigation through lectures and study tours.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- (1) understand the outlines of the earthquake mechanism and building structures disaster of past Earthquake,
- (2) acquire knowledge of seismic evaluation, mainly focusing on damaged buildings and repair techniques of buildings for significant earthquakes and,
- (3) policy of reconstruction management for damaged areas and methodologies of earthquake disaster mitigation.

2. Course Outline :

(1) Policy of Recovery Management for Earthquake Damaged Building

(2-8) Study Tour of Past Earthquake Disaster Areas

- Observation of damaged areas and structures in Tohoku districts
- Seminar for Earthquake Disaster Mitigation and Reconstruction at Disaster-related institutes
- Practice for Earthquake Countermeasures

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture

outline and prepare questions to be asked. Also, be sure to have an overview of the earthquake disaster reconstruction area that you will visit in advance. After the lecture, review the content and submit the assigned report by the due date. Students can learn about earthquake disaster reconstruction management by searching lecture notes and related research papers, and prepare themselves in relation to their own research objectives.

3. Grading :

Class discussions (50%) and reports on practices (50%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP5340E

講義名[日本語(英語)] / Class Name : Case Study (Practice for Tsunami Disaster Mitigation Policy)

担当者 (フルネーム) / Course instructor (Full Name) : 原 辰彦 / HARA Tatsuhiko

学期・曜日・時限 / Term・Day・Period : 秋～春 /Fall through Spring/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

[Course Description]

This course is designed so that students learn real-time determination of earthquake parameters and determination of the broadband moment magnitude through lectures, practices.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

- (1) Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
- (3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
- (4) Ability to analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them

[Course Goals]

Students can:

- acquire knowledge of real-time determination of earthquake parameters
- acquire knowledge of determination of the broadband moment magnitude

2. Course Outline :

(1-4) Real Time Determination of Earthquake Parameter

- Real time Monitoring
- Necessary Condition for Processing System
- Earthquake Detection
- Automatic Phase Picking
- Hypocentral Parameter Determination
- Hypocenter Determination
- Magnitude Determination
- Earthquake Early Warning
- Practice on Interactive Processing

(5-9) Determination of Broadband Moment Magnitude

- Basic concept of broadband moment magnitude (Mwp)
- Comparison of various magnitude scales (e.g., mb, Ms, Mw, Mm)
- Procedure of determination of Mwp
- Practices to determine Mwp

[Out-of-class Learning]

Read the lecture notes and related research papers distributed in this course in advance to understand the lecture outline and prepare questions to be asked. After the lecture, review the content and submit the assigned report by the due date. Students can learn about the covered subjects by searching lecture notes and related research papers, and prepare themselves for further understanding practices for tsunami disaster mitigation.

3. Grading :

Class discussions (20%) and report assignments (80%) will be evaluated.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Lecture notes and the necessary materials will be provided.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

SAC (Seismic Analysis Code), MS-Excel

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP5802E

講義名[日本語(英語)] / Class Name : Project Cycle Management Practice

担当者 (フルネーム) / Course instructor (Full Name) : Koike Toshio

学期・曜日・時限 / Term・Day・Period : Fall, Winter 秋、冬

単位数/ Credits : 2

1. Course Description:

The purpose of this project is to learn the concept of PCM at the timing prior to writing the master's thesis in order to utilize what they have learned in Japan in their home countries, and to "raise awareness" so that they will work on their master's thesis with an awareness of problem solving, practicality, and realistic viewpoints with a view to utilizing what they have learned in Japan in their home countries.

[Course Goals]

Students can learn how to plan, implement, evaluate, and provide feedback on projects, the theory of PCM, and specific methods of stakeholder analysis, problem analysis, objective analysis, and PDM proposal development.

[Related Diploma Policy (DP)]

Disaster Management Policy Program (DMP):

1. Ability to identify problems by analyzing issues from multiple perspectives with the expertise in disaster management policies
2. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies
3. Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice
4. Ability to identify an issue, analyze related data using engineering tools, compile them into research papers and policy recommendations, and present them
5. Ability to play an active role as a balanced leader based on a deep understanding of different values and systems in a global society

2. Course Outline :

Practice on project cycle management

- 1) Introductory lecture (one class)
- 2) Overview of PCM (two classes)

- 3) Problem analysis (explanation of method and practice) (two classes)
- 4) Objective analysis (explanation of method and practice) (two classes)
- 5) PDM proposal development (explanation of method and practice) (two classes)
- 6) Group works and Group presentations and discussion (four classes)
- 7) Follow-up seminar (two classes)

[Out-of-class Learning]

Read the lecture notes and related research papers and documents distributed in this course in advance to understand the lecture outline. After the lectures, seminars, practices, and fieldwork, review the content and apply it to each student's research topics and areas of each student. Students can also learn from the case studies implemented by other students in an interactive way.

3. Grading :

Since this class focuses on discussions based on individual data and computation results, active contributions to presentations and discussions are highly evaluated.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks : (4-1:Required 4-2:Others)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP7001E

講義名[日本語(英語)] / Class Name : Advanced Disaster Management Policies A: from Regional and Infrastructure Aspect

担当者 (フルネーム) / Course instructor (Full Name) : 知花 武佳 日比野 直彦 / CHIBANA Takeyoshi, HIBINO Naohiko

学期・曜日・時限 / Term・Day・Period : 秋学期 /Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course deals with the various aspects of disaster management policies from the viewpoint of infrastructure development. It emphasizes obtaining the ability to analyze the mechanisms of natural disasters that have occurred in various regions and to consider appropriate countermeasures. The course consists of four parts:

- I) Introductory lecture to overlook disaster management policies
 - II) Lectures in specialized fields on practical measures against natural disasters
 - III) Site-visiting in central Tokyo
 - IV) Presentations by students and overall discussions
- The 3rd and 4th are jointly managed with DMP(B).

[Related Diploma Policy (DP)]

Disaster Management Program (DM)

- 2.Ability to make maximum use of available tools, and/or develop new one to explore, collect, archive, search and integrate scientific data and information as well as information of experiences, including good practices and success/failure stories, and facilitate effective risk communications.
- 3.Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies.
- 4.Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice.
- 5.Ability to nurture creativity with which to help on-site stakeholders develop their ability to solve problems by themselves.
- 6.Ability to play an active role as a balanced leader based on a deep understanding of different values and systems in a global society.

[Course Goals]

Students will gain a broad understanding of key disaster management concepts, including policies and institutions, technical measures, and characteristics of natural dynamics.

2. Course Outline :

I .

1. Characteristics of Natural Disasters

II . Disaster Management in Individual Fields (by various experts)

2. Heavy Rain, Snow and Other Disasters in Road Systems, etc.

3. Flood Management in Japan 1

4. Flood Management in Japan 2

5. Wind and Rain Disaster Management in Railway Operation

6. Japan Railway and Natural Disaster

7. Coastal Disaster Management

8. Flood Disaster and Poverty

III. Site-Based Study in Tokyo Metropolitan District

9. Site-Based Study 1) (Together with DMP(B))

10. Site-Based Study 2) (Together with DMP(B))

11. Site-Based Study 3) (Together with DMP(B))

IV. Presentations and Discussion

12. Esquisse (Presentation Workshop) (Together with DMP(B))

13. Presentation and Discussion 1) (Together with DMP(B))

14. Presentation and Discussion 2) (Together with DMP(B))

15. Presentation and Discussion 3) (Together with DMP(B))

[Out-of-class Learning]

Students are expected to read the materials provided in advance and familiarize themselves with the lecture content prior to attending class.

3. Grading :

Final Group Presentation and Contribution to Discussion (70%)

Final Report (30%)

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Necessary materials will be provided by instructors.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Exclude site visits from the audience.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP7011E

講義名[日本語(英語)] / Class Name : Advanced Disaster Management Policies B: from Urban and Community Aspect

担当者 (フルネーム) / Course instructor (Full Name) : 片山 耕治 /KATAYAMA Koji

学期・曜日・時限 / Term・Day・Period : 秋学期/Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course aims to deepen understanding of disaster risk management with a particular focus on the implementation of concrete policy actions related to urban, housing, and community aspects. It aims to equip doctoral students with the skills necessary to apply sophisticated, context-specific strategies that address social, economic, and environmental conditions in various countries. The course will critically analyze:

- Detailed implementation strategies of disaster management policies
- In-depth case studies of significant global disasters
- Urban Disaster risk management approaches in Japan
- Evaluation of policies and regulations to secure building safety

[Related Diploma Policy]

Disaster Management Program (DM)

2.Ability to make maximum use of available tools, and/or develop new one to explore, collect, archive, search and integrate scientific data and information as well as information of experiences, including good practices and success/failure stories, and facilitate effective risk communications.

3. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies.

4.Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice.

5. Ability to nurture creativity with which to help on-site stakeholders develop their ability to solve problems by themselves.

6. Ability to play an active role as a balanced leader based on a deep understanding of different values and systems in a global society.

[Course Goals]

Students will gain a in-depth understanding of key disaster management concepts, including the use of tools for data management and analysis, policy development, and risk communication.

2. Course Outline :

1. Disasters in the World, Basics of Disaster Risk Management

2. Lessons from 2011 Tohoku and 1995 Kobe ,Basics of Disaster Risk Management, Development of disaster

risk management

3. Urban disaster risk management policy, Building / housing policy and disaster management

4. Special Lecture "Augmented Reality disaster management training"

5. Special Lecture "Weather and Disasters"

6. Special Lecture "No code App"

7. Special Lecture "Sediment-related Disasters"

8. Special Lecture "OpenStreetMap"

9. Esquisse (Presentation Workshop) (Together with DMP(A))

10. Presentation and Discussion 1) (Together with DMP(A))

11. Presentation and Discussion 2) (Together with DMP(A))

12. Presentation and Discussion 3) (Together with DMP(A))

13. Site-Based Study 1) (Together with DMP(A))

14. Site-Based Study 2) (Together with DMP(A))

15. Site-Based Study 3) (Together with DMP(A))

[Out-of-class learning]

Students are expected to read the materials provided in advance and familiarize themselves with the lecture content prior to attending class.

3. Grading :

Final Presentation(70%) and Contribution to Discussion(30%)

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Necessary materials will be provided by instructors.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

Site visits are restricted to enrolled course students and are not open to the audience.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP7831E

講義名 [日本語 (英語)] / Class Name : Advanced Disaster Risk Reduction for Hydroclimatic Extremes

担当者 (フルネーム) / Course instructor (Full Name) : 小池 俊雄 / KOIKE Toshio

学期・曜日・時限 / Term・Day・Period : Term: 秋、冬 / Fall through Winter

単位数/ Credits : 2

1. Course Description and the Learning Objectives:

This course addresses the question of how we can reduce the risks of hydro-climatological extremes, such as floods, which are being exacerbated by climate change. It introduces the recent conceptual developments of "risk", "resilience" and "sustainability" and their reflection in UN policies on "Development and Environment" and "Disaster Risk Reduction". Japan provides a useful example of the evolution of the concepts and their implementation, including governance, legislation and finance. In this course, the history of trials and errors and updates will be presented and discussed. Students are required to obtain the ability to deeply consider the application of river engineering technics.

[Course Goals]

This course enables students to develop and share advanced capacity and science-based knowledge for informed cross-sectoral decision-making among all stakeholders to improve resilience to hydroclimatological extremes under climate change and to build a sustainable society.

[Related Diploma Policy (DP)]

Disaster Management Program (DMP):

1. Ability to identify and delineate on-site problems by surveying the gap between the ideal state and the current state from multiple perspectives with the expertise in disaster management policies.
2. Ability to make maximum use of available tools, and/or develop new one to explore, collect, archive, search and integrate scientific data and information as well as information of experiences, including good practices and success/failure stories, and facilitate effective risk communications.
3. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies.
5. Ability to nurture creativity with which to help on-site stakeholders develop their ability to solve problems by themselves.

2. Course Outline:

- (1) Understanding and practicing the occurrence of disasters (four classes)
 - 1) What is disaster risk?
 - 2) PAR model and ACCESS model
 - 3) Impacts of Climate Change
 - 4) Disaster management cycle
- (2) Conceptual evolution of UN policies (four classes)
 - 1) Development and Environment
 - 2) Disaster Risk Reduction
 - 3) Climate Change Mitigation and Adaptation
 - 4) Integrated Management
- (3) Japan's experiences (four classes)
 - 1) Conventional river management before the 20th century
 - 2) The river management evolution in the 20th century
 - 3) Updated river management in the 21st century
 - 4) Strengthening sustainability and resilience by all
- (4) Understanding and practicing the international cooperation (three classes)
 - 1) Science-based cooperation
 - 2) Multilateral cooperation
 - 3) Bilateral cooperation

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the basics of water resources management and river engineering by searching lecture materials and related research papers, which will support their research.

3. Grading:

Students will deepen their understanding of the hydrological phenomena and its system through lectures and the final examination and will be graded from A to D or E depending on the depth of their understanding. Grades will be assessed based on a report and presentation related to the lecture (30%) and an examination (70%).

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks: (4-1:Required 4-2:Others)

4-1:Required

- Ben Wisner, Piers Blaikie, Terry Cannon and Ian Davis: At Risk -natural hazards, people's vulnerability and disasters- (Routledge, London & NY, 2004)
- Kuniyoshi Takeuchi: Integrated Flood Risk Management – Basic Concepts and the Japanese Experience (Routledge, London & NY, 2023)
- UNESCO IWRM guidelines steering committee, IWRM Guidelines at River Basin Level: Part 1-1 Principles, 2-1 Part 2-1 Coordination, 2-2 Flood Management, 2-3 Irrigation. (UNESCO, 2009)
- Students are encouraged to search literatures, including articles related to this lecture, based on their individual interests.

5. Software Used in Lectures (If not applicable, it can be left blank.):

6. Auditing: Allow or Not Allow

Not Allow

7. Note:

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP7881E

講義名[日本語(英語)] / Class Name : Advanced Geography on Flood Disaster Management

担当者(フルネーム) / Course instructor (Full Name): 南雲 直子, 須貝 俊彦 / Assoc. Prof. NAGUMO Naoko, Prof. SUGAI Toshihiko

学期・曜日・時限 / Term・Day・Period : 秋、冬 / Fall through Winter

単位数/ Credits : 2

1. Course Aims and Objectives

The characteristics of river basins are developed over a long period of time by both the natural conditions inherent to rivers and the social and economic activities by human. One of the goals of Geography is to elucidate these characteristics of river basins and to assist in fostering more desirable relationships with rivers, such as flood control, water use, and environmental conservation measures. From this perspective, students in this lecture will learn the methods of geographical regional analysis and understand that there are regional differences in the characteristics of rivers, hydrological and hydrological phenomena in river basins, and human settlement patterns. Furthermore, students will study the history of rivers and human interactions with them, and learn the importance of flood control, water use, and environmental conservation measures adapted to the characteristics of each river basin. Students are expected to acquire the ability to interpret and explain the geographic characteristics of target areas.

[Course Goals]

This course aims to enable students to create maps and conduct regional analysis using geographic information, as well as to be able to explain geographic characteristics of their individual study area at an advanced level. Additionally, understanding the importance of flood control, water use, and environmental conservation measures which are tailored to the characteristics of each river basin is also one of the goals of this lecture.

[Related Diploma Policy (DP)]

Disaster Management Program:

1. Ability to identify and delineate on-site problems by surveying the gap between the ideal state and the current state from multiple perspectives with the expertise in disaster management policies.
2. Ability to make maximum use of available tools, and/or develop new one to explore, collect, archive, search and integrate scientific data and information as well as information of experiences, including good practices and success/failure stories, and facilitate effective risk communications.
3. Ability to conduct policy analysis for problem solving based on academic analysis from

multiple perspectives with the wide-range of knowledge on disaster management policies.

5. Ability to nurture creativity with which to help on-site stakeholders develop their ability to solve problems by themselves.

2. Course Topics and Methods

1: Introduction

Development of geographical concepts

2: Interpretation of Geographic Information (1)

Application of map representation and map reading

3: Interpretation of Geographic Information (2)

Advanced use of topographic maps

4: Interpretation of Geographic Information (3)

Advanced aerial photograph and satellite image interpretation

5: Regional analysis using geographic information (1)

Description of regional characteristics

6: Regional analysis using geographic information (2)

Role of mapping and land measurement

7: Excursion

Excursion to the Geospatial Information Authority

8: Fluvial systems and fluvial processes (1) (Prof. Sugai)

Earth system and hydrological system

9: Fluvial systems and fluvial processes (2) (Prof. Sugai)

River morphology, process, and floodplain geomorphology

10: Fluvial systems and fluvial processes (3) (Prof. Sugai)

Fluvial responses to climate changes

11: Fluvial systems and fluvial processes (4) (Prof. Sugai)

Fluvial responses to tectonic and anthropogenic changes

12: Development of river basins and alluvial plains (1)

Sediment transportation and flooding of sediment in a river basin

13: Development of river basins and alluvial plains (2)

Civilization in alluvial plains

14: Development of river basins and alluvial plains (3)

Development of rivers and its challenges

15: Summary of the class

[Out-of-class Learning]

Students are required to review the lecture materials distributed in class and their own lecture

notes both before and after the lecture. Additionally, they must submit assignments by the deadline, and search for and read related research papers according to their individual interests.

3. Grading

[Evaluation Criteria]

Students are required to deepen their understanding of geography through lectures, class exercises and assignments as well as examination. The grade will be evaluated based on class exercises and assignments as well as presentations (40%) and exams (60%).

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks

4-1 Required

In this course, no textbook is specified.

4-2 Others

Fryirs, K.A. and Brierley, G.J. (2013) *Geomorphic Analysis of River Systems: An Approach to Reading the Landscape*, First Edition, Blackwell Publishing.

Leopold, L.B., Wolman, M.G., Miller, J.P. (2020) *Fluvial Processes in Geomorphology*, Second Edition, Dover Publications.

5. Software Used in Lectures (If not applicable, it can be left blank.):

6. Auditing; Allow or Not Allow

Not Allow

7. Note:

Class Name: Advanced Crisis and Risk Management

Course Number: DMP7901E

Course instructor (Full Name): OHARA Miho

Academic Year: (April 2024 - March 2025)

Term: Fall through Winter

Credits: 2

1. Course Description and the Learning Objectives:

For achieving flood disaster risk reduction, both risk management and crisis management is essential. Sendai Framework for Disaster Risk Reduction 2015-2030 (SFDRR) defines four priority for action. Among these priorities, “Priority 1: Understanding disaster risk” and “Priority 2: Strengthening disaster risk governance to manage disaster risk” are the basis of disaster risk reduction. In addition, “Priority3: Investing in disaster risk reduction for resilience” is related to risk management while “Priority 4: Enhancing disaster preparedness for effective response and to “Build Back Better” is related to crisis management. Based on SFDRR, This course aims to provides the advanced understanding of crisis and risk management including learning good practices related to each priority for action. Necessary governance and communication to achieve these priorities are also explained.

[Course Goals]

This course requires students to understand both risk management and crisis management defined as priorities for action by SFDRR. Students are required to understand measures implemented in Japan including their history of establishment and revisions in addition to understand necessary governance and communication with related stakeholders to achieve these priorities. Students are also required to obtain the skill of making a plan of risk management and crisis management, conducting risk assessment for designing preventive investment and implement necessary measures for achieving appropriate risk management and crisis management following to SFDRR.

[Related Diploma Policy (DP)]

Disaster Management Program (DMP):

1. Ability to identify and delineate on-site problems by surveying the gap between the ideal state and the current state from multiple perspectives with the expertise in disaster management policies.
2. Ability to make maximum use of available tools, and/or develop new one to explore, collect, archive, search and integrate scientific data and information as well as information of experiences, including good practices and success/failure stories, and facilitate effective risk communications.
3. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies.

5. Ability to nurture creativity with which to help on-site stakeholders develop their ability to solve problems by themselves.

2. Course Outline:

1. Introduction: Framework of SFDRR and four priorities for action
2. Understanding Risk (SFDRR-Priority1)
3. Good practices for understanding Risk (SFDRR-Priority1)
4. Risk Governance (SFDRR-Priority2)
5. Methodology for assessing socio-economic impact (SFDRR-Priority 3)
6. Exercised for assessing socio-economic impact (SFDRR- Priority 3)
7. Example of assessing direct impact (SFDRR- Priority 3)
8. Example of assessing indirect impact (SFDRR- Priority 3)
9. Disaster information dissemination in Japan (SFDRR-Priority 4)
10. Disaster information dissemination in Asia, Dr. Minami (SFDRR- Priority 4)
11. Emergency response /Timeline and good practices (SFDRR- Priority 4)
12. Risk finance and impact on Business sector (SFDRR- Priority 4)
13. Risk-based land use management (SFDRR- Priority 4)
14. Build Back Better and good practices (SFDRR- Priority 4)
15. Presentation, discussion, and evaluation

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the examples of risk management and crisis management by searching lecture materials and related research papers, which will support their research.

3. Grading:

Students will deepen their understanding of risk management and crisis management and good practices through lectures and the final examination and will be graded from A to D or E depending on the depth of their understanding.

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks: (4-1:Required 4-2:Others)

At Risk: Natural Hazards, People's Vulnerability and Disasters, Piers Blaikie, 2003.

5. Software Used in Lectures (If not applicable, it can be left blank.):

6. Auditing; Allow or Not Allow

Not Allow

7. Note:

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP8831E

講義名[日本語(英語)] / Class Name : River Engineering

担当者 (フルネーム) / Course instructor (Full Name) : 清水 義彦/ Prof. SHIMIZU Yoshihiko

Term: Fall through Winter 秋、冬

単位数/ Credits: 2

1. Course Description and the Learning Objectives :

A river has a naturally-based form in general but has changed by influences of human impacts. The purpose of this course is to understand such characteristics of rivers caused by natural and human impacts and to learn the basics and their applications of river channel design and river management with safety against flood disasters and conservation of river environment. Students are required to obtain the ability to deeply consider the application of river engineering technics.

[Course Goals]

This course enables students to acquire the advanced implementation methodology of “River Engineering” linking knowledge of “Hydraulics” and “Sediment Transport Mechanics”.

[Related Diploma Policy (DP)]

Disaster Management Program (DMP):

1. Ability to identify and delineate on-site problems by surveying the gap between the ideal state and the current state from multiple perspectives with the expertise in disaster management policies.
2. Ability to make maximum use of available tools, and/or develop new one to explore, collect, archive, search and integrate scientific data and information as well as information of experiences, including good practices and success/failure stories, and facilitate effective risk communications.
3. Ability to conduct policy analysis for problem solving based on academic analysis from multiple perspectives with the wide-range of knowledge on disaster management policies.
5. Ability to nurture creativity with which to help on-site stakeholders develop their ability to solve problems by themselves.

2. Course Outline :

(1) Fundamental characteristics of river basin and channel morphology (three classes)

- Drainage basin zones and some channel formation types,
- Typical longitudinal variation in channel properties from headwater to river mouth,
- Morphological classification of channel plane-form pattern.

(2) Basics, practice and application for river channel design (three classes)

- Applications of specific energy and specific force,
 - Channel design by using uniform and non-uniform flow analysis,
 - Evaluating flow resistance due to lateral variation of roughness in a cross-section.
- (3) Advanced flood hydraulics and its applications (three classes)
- Characteristics on time and space propagation of water level and flood discharge by using unsteady one-dimensional flow analysis,
 - Transformation of water level and discharge hydrographs,
 - Function of dam and flood retarding facility.
- (4) Depth-averaged flow approach and its applications (three classes)
- Basic equations on depth-averaged flow and river bed variation analysis,
 - Channel flow with a narrow path
 - Meandering channel, Flow with riparian forest, Flow with bars
- (5) Function of river hydraulic structure and its applications (three classes)
- Hydraulic function of groyne, Consolidation works with a hydraulic drop,
 - Levee design, Local scouring around the pier,
 - Traditional measures for flood fighting

[Out-of-class Learning]

After the lecture, review the content and ask questions if any. Students can learn about the basics of river engineering by searching lecture materials and related research papers, which will support their research.

3. Grading :

Students will deepen their understanding of the hydrological phenomena and its system through lectures and the final examination and will be graded from A to D or E depending on the depth of their understanding. Grades will be assessed based on a report and presentation related to the lecture (30%) and an examination (70%).

[Evaluation Criteria]

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks : (4-1:Required 4-2:Others)

4-1: Textbook will be distributed to students in the class.

4-2: Students are encouraged to search literatures, including articles related to this lecture, based on their individual interests.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DMP8850E

講義名[日本語(英語)] / Class Name : International Policies on Water and Disasters

担当者 (フルネーム) / Course instructor (Full Name) : 廣木 謙三 /HIROKI Kenzo

学期・曜日・時限 / Term・Day・Period : 秋学期/Fall/月 Mon/2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course studies formulation and implementation process of international policies that give concrete impact on local and national practices and field works, and vice versa. Water and disasters, key cross cutting areas of SDGs, will be addressed as a main subject of study in the course. The course intends to help students broaden their knowledge base and enhance their capability to formulate and implement national and international policies and connect them with local practices and projects.

The course will be started by lectures on cases in which practitioners and stakeholders faced actual disasters. Following group discussion will explore how international policies may help local practitioners and stakeholders in meeting diverse local challenges. Afterwards, the course moves to lectures on chronological development of international water and disaster policies in which selected official documents are examined. A recent process of merging water policy and disaster policy will also be studied.

Having learned these basics, students will learn key policy elements such as Climate Change Adaptation and management of transboundary water. Process and methods to connect policy and science at decision making levels will be discussed. Meeting/conference processes will be taken up as a tool to facilitate formulation and implementation of policies. The course will study how those meeting processes determine success and failure of the policies.

As Integrated Water Resources Management (IWRM) is the key for sustainable, inclusive, and resilient water management, students will study basic concept, field cases and national and international policies on IWRM. They will deepen their knowledge on IWRM by presenting their own cases and discuss them in a seminar.

Having completed this course, students will be able to acquire sufficient basic knowledge and concepts of international policies on water and disasters, and can explain how it works, thereby using and analyzing them in formulation and implementation of practices, strategically realizing the policies by creating effective conference processes, and reviewing and upgrading them in spiral manners as in the processes of Integrated Water Resources Management (IWRM). (Diploma Policy : Disaster Management Program 2,3,4,5,6)

2. Course Outline :

Phase 1 (Week1-4): "Overview of status and policies on water and disasters at local and global levels"

The course is started by knowing from cases what challenges practitioners and stakeholders are likely to face in actual disasters. Students will learn outline of key international policies on water as well as DRR and their historical background. A recent process of merging water policy and disaster policy will also be visited. Group

discussion will explore how international policies may help local practitioners and stakeholders in meeting the local challenges. Having completed this phase, students will be able to use obtained background information on international policies on water and disasters in analyzing and formulating policies at national and local levels. (Diploma Policy 2,3,4,5,6)

Lecture: Global overview on water and disasters

Lecture: International policy on water

Lecture: International DRR policy and merging water and DRR policies

Seminar on DRR Policy (Group discussion on policies to address local challenges on water and disasters)

Read "Sendai Framework for Disaster Risk Reduction (DRR)" (Pages to be specified by the lecturer):

https://www.preventionweb.net/files/43291_sendaiframeworkfordrren.pdf

Phase 2 (Week 5-7): "Bridging international policy, national policy, and field practice"

Students will learn how international and national policies are translated into local practices. Practical knowledge and lessons learned from recent cases will be shared through lecture. These will lead to group discussion on status and challenges of current policies on water and disasters.

Having completed this phase, students will be able to use obtained knowledge and information on international policies on water and disasters in formulating and implementing practices by bridging policies and practices at national and local levels. (Diploma Policy 3,4,5,6)

Lecture: Bridging international policy, national policy, and field practice

Crisis management of water-related disasters

Dam safety policy

Financing and investment on water-related DRR

Lecture: Learning from cases and good practices

Seminar: "Looking at the future by visiting the past: Discussing policies which should be created in the future."

Read "The 2030 Agenda for Sustainable Development" (Pages to be specified by the lecturer):

<https://sustainabledevelopment.un.org/content/documents/21252030%20Agenda%20for%20Sustainable%20Development%20web.pdf>

Phase 3 (Week 8-11): "Methods to create effective international policies"

International policies are just a stack of paper without giving real impacts on national and local actions. Students will learn the process of developing effective international policies. Various meetings and conferences are compared as prerequisite tools to build consensus and formulate international policies. Students will discuss The students will discuss building effective international processes that can give intended impact on national and local actions.

Through this phase, students will be able to use obtained background information on international policies on water and disasters in formulating policies and implementing practices at national and local levels.

Having completed this phase, students will be able to use obtained knowledge and information to help strategize and implement strategic conference processes that will serve policy objectives at international and national

levels. (Diploma Policy 3,4,5,6)

Lecture: How international policies and their implementation are connected to conference process

Lecture: Climate change adaptation and DRR

Lecture: Addressing water-related Disaster Risk Reduction under COVID-19

Seminar: "Discussing methods to formulate effective international policies that lead to concrete actions"

Read "UNSGAB Hashimoto Action Plan 1" and "UNSGAB Journey"

<https://sustainabledevelopment.un.org/content/documents/8701unsgab-journey-web.pdf>

Read "Final Outcome Report of High Level panel on Water" (Pages to be specified by the lecturer)

https://sustainabledevelopment.un.org/content/documents/17825HLPW_Outcome.pdf

Phase 4 (Week 12-15): "Integrated Water Resources Management (IWRM)"

Concept, background, effects and necessary frameworks and process of IWRM will be learned. International guidelines to implement IWRM will be visited to learn how practically IWRM can help integrate various water-related sector including that of DRR for efficient management of water resources.

Having completed this phase, students will be able to use obtained knowledge and information to help create and/or revise IWRM processes at transboundary, national, and basin levels. (Diploma Policy 2,3,4,5,6)

Lecture: Overview of Integrated Water Resources Management (IWRM)

Lecture: Practicing IWRM (1)

Lecture: Practicing IWRM (2)

Seminar: "Discussing cases of IWRM"

Read "UN Convention on the Law of the Non-navigational Uses of International Watercourses" (Pages to be specified by the lecturer): http://legal.un.org/ilc/texts/instruments/english/conventions/8_3_1997.pdf

3. Grading :

Performance in class discussion (20%), Presentation (30%), and Final Exam (50%)

Criteria of grading is as follows:

A: Acquire sufficient basic knowledge and concepts of international policies on water and disasters, and can explain how it works.

B: Acquire basic knowledge and concepts of international policies on water and disasters, and can explain how it works.

C: Acquire basic knowledge and concepts of international policies on water and disasters in general, and can explain how it works.

D: Acquire the minimum basic knowledge and concepts of international policies on water and disasters, and can explain how it works.

E: Not acquire the basic knowledge and concepts of international policies on water and disasters, and cannot explain how it works.

Rejection.

4. Textbooks and References (4-1:Required 4-2:Others)

4.1

"Sendai Framework for Disaster Risk Reduction (DRR)":

https://www.preventionweb.net/files/43291_sendaiframeworkfordrren.pdf

"The 2030 Agenda for Sustainable Development":

<https://sustainabledevelopment.un.org/content/documents/21252030%20Agenda%20for%20Sustainable%20Development%20web.pdf>

"UN Convention on the Law of the Non-navigational Uses of International Watercourses" (Pages to be specified by the lecturer): http://legal.un.org/ilc/texts/instruments/english/conventions/8_3_1997.pdf

"UNSGAB Hashimoto Action Plan 1": to be distributed by the lecturer

"UNSGAB Journey"

<https://sustainabledevelopment.un.org/content/documents/8701unsgab-journey-web.pdf>

Other materials to be distributed by the lecturer when necessary

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : DRM2050J

講義名[日本語(英語)] / Class Name : 気象と災害

担当者 (フルネーム) / Course instructor (Full Name) : 鈴木 靖/SUZUKI Yasushi

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/3

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

【本講義の概要】

豪雨や台風・地震・津波・火山噴火など、気象（地象・水象を含む）情報は災害対策と密接にかかわるものである。近年、異常気象や気候変動等の影響を受け、これまでの経験を超えた災害が頻発する状況にあることをふまえて、本講義では、防災対策にとって極めて重要な「気象と災害」について幅広く学ぶ。気象庁の職員や、気象災害の諸分野の専門家を講師に招き、気象の観測・シミュレーション・防災気象情報作成にいたる基礎知識や、過去の気象災害事例について講義を受ける。そうした学習を通じて、学んだ防災気象情報を実社会で利活用するための、気象分野のリテラシーを高めることを目標とする。

関連する DP は、防災・危機管理コースディプロマポリシー①②③

【到達目標】

- ・気象の観測・シミュレーション等に関する基礎知識を得ることができる。
- ・防災気象情報の活用事例を学び、災害時の対応力を高めることができる。
- ・気象災害リスクをハザード、曝露量、脆弱性の3つの要因に分けて理解することができる。

【関連するディプロマポリシー (DP)】

公共政策プログラム

地域政策コース DP②

インフラ政策コース DP②

防災・危機管理コース DP①、②、③

医療政策コース DP②

農業政策コース DP②

科学技術イノベーション政策コース DP②

国際協力コース DP②

まちづくり政策コース DP②

総合政策コース DP②

2. 各授業のテーマ：

- 第1回(10/9)：気象と災害概論（気象，災害，防災等についての概説，講義の目的等）
 - 第2回(10/16)：気象情報の活用（官公庁，企業，一般市民，メディア等の利活用等）
 - 第3回(10/23)：気象予報・警報等（予測技術，避難情報，警報・注意報等）※（気象庁外部講師）
 - 第4回(10/30)：気象観測・数値予報等（気象観測と数値予報技術の動向等）※（気象庁外部講師）
 - 第5回(11/6)：雨の災害（豪雨，線状降水帯，外水・内水氾濫，土砂災害等）
 - 第6回(11/13)：風の災害（台風，地形と風，暴風，竜巻，突風等）
 - 第7回(11/20)：気温の災害（熱中症，ヒートアイランド，やませ，霜害等）※（専門分野外部講師）
 - 第8回(11/27)：防災気象情報の課題（情報の受容，避難行動等）※（気象協会外部講師）
 - 第9回(12/4)：雪の災害（交通障害と豪雪，吹雪，なだれ，路面凍結等）※（気象協会外部講師）
 - 第10回(12/11)：地震災害（地震活動，地震・地殻活動監視体制，警報，津波等）※（気象庁外部講師）
 - 第11回(12/18)：火山災害（火山を知る，火山観測，火山防災情報・体制等）※（気象庁外部講師）
 - 第12回(12/25)：海の災害（高波，高潮と津波，潮位，風波とうねり等）
 - 第13回(1/8)：異常気象と地球温暖化（平年値，極端現象，温室効果，IPCC，緩和策と適応策等）
 - 第14回(1/15)：社会と災害（文明と災害，日本人と自然災害等）
 - 第15回(1/22)：気象と防災（講義の総括とふりかえり）
- ※は気象庁，気象協会および専門分野の方に外部講師を依頼する予定

【全授業を通した授業外学修】

- ・各授業前に配布された授業の資料を読み，資料で理解できない内容を明らかにしておくこと．
- ・配布資料の専門用語等をあらかじめ調べて理解を深めておくこと．
- ・授業後は，配布資料に自身で加筆し，災害時に読み解く資料とすること．

3. 成績の評価方法：

- ・筆記試験 100%で評価する．具体的な試験の実施については授業の中で提示する．

【到達目標の評価】

- ・気象の基礎知識：気象観測や気象データを利用する上での留意点を理解し，説明できること．
- ・防災気象情報の活用：想定した気象災害に対して，防災気象情報をどのように活用して被害を軽減できるか説明できること．

・気象災害リスクの理解：想定した気象災害リスクを、ハザード，曝露量，脆弱性の3つの要因から説明できること．

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

講義においては，テーマに応じ資料を配布し，それをもとに授業を行う．なお，参考文献があれば，授業の中で適宜提示する．

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO1000EA

講義名[日本語(英語)] / Class Name : Microeconomics I

担当者 (フルネーム) / Course instructor (Full Name) : XING Yuqing/XING Yuqing

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I) /金 Fri/2 金 Fri/3

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This is an introduction of microeconomics. It covers basic economic assumptions and concepts used to define behaviors of consumers and firms in markets. The course consists of three parts: consumer theory, firm theory and the equilibrium in a competitive market. In the consumer theory, preference, utility, budget constraints, utility maximization and demand curves will be introduced. In the firm theory, production and cost functions, profit maximization, and supply curves will be discussed. It will also discuss basic concepts of general equilibrium, monopoly and intertemporal allocation of consumption.

[Related Diploma Policy (DP)]

Macroeconomic Policy Program (MEP1) (MEP2) - 1

[Course Goals]

Students can learn basic economic theories on consumers and firms and the skills to analyze the behaviors of rational consumers and firms in competitive markets. In addition, students will be able to learn how to evaluate policy impacts on the welfare of an economy.

2. Course Outline :

Week 1 (two periods): Utility and Choice (chapter 2)

Week 2 (two periods): Demand Curves and Elasticity (chapter 3)

Week 3 (two periods): Production (chapter 6)

Week 4 (two periods) Costs (chapter 7)

Week 5 (two periods) Perfect competition (chapter 9)

Week 6 (two periods) Pricing in Input Market (chapter 13)

Week 7 (two periods) General Equilibrium and welfare (chapter 10)

Week 8 (one period) Capital and Time (chapter 14)

[Out-of-class Learning]

Students should read the relevant chapters of the textbook before the class to grasp the outline. After class, students should review the contents of the lecture and prepare for the next class. Besides the textbook, The Economist and Nikkei Asia are highly recommended reading materials for understanding the real economy and

the impacts of economic policies on the world economy as well as individual countries.

3. Grading :

Course Requirement: Homework (40%) and final exam (60%). No other alternatives will be given for grading. Overdue homework will not be accepted. Group discussions are encouraged for doing home work. But, each individual student should write his/her answers independently.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Walter Nicholson, Intermediate Microeconomics-and Its Application, 12th edition. This book will be used in Micro II. All students should purchase the required textbook

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None

6. Auditing ; Allow or Not Allow

☐ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO1020E

講義名[日本語(英語)] / Class Name : Essential Microeconomics

担当者 (フルネーム) / Course instructor (Full Name) : 黒澤 昌子/KUROSAWA Masako

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/3 火 Tue/6

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

How do markets work? How do markets set prices, determine what will be produced, how they will be produced, and decide who will get the goods? What should governments do in a market economy? This is an introductory microeconomics course, for those with no previous economics background in particular, in which students learn to obtain answers to these questions. We will study a concise, consistent methodology for understanding and predicting the economic behavior of people and firms in a variety of markets. The tools developed in this course will prepare you for upper-level courses, as well as for intelligent discussion of issues under public debate.

[Related Diploma Policy (DP)]

- Young Leaders Program (YLP): (2) Ability to conduct policy analysis and make practical policy recommendations to solve problems with extensive knowledge of public policy.
- Master's Program of Public Policy (MP1, MP2): (3) Ability to analyze international development policies that lead to economic development and make practical policy recommendations based on this analysis.
- Maritime Safety and Security Program (MSP): (1) The knowledge and analytical ability to understand problems and challenges, and to identify opportunities for improvement in the areas of maritime safety and security.

[Course Goals]

Students can:

- (1) Understand consumer behavior.
- (2) Understand firm behavior.
- (3) Analyze different types of market structures, such as a competitive market, monopoly, and oligopoly.
- (4) Understand how to apply economics principles to a range of policy questions.

2. Course Outline :

Week (chapters refer to the textbook indicated in 4-2 below)

1	Introduction (first principles, economic models)	(chap.1~2)
2	Supply and Demand	(chap.3)
3	Supply and Demand	(chap.3)
4	Price Controls and Quotas	(chap.4)

5	Consumer and Producer Surplus	(chap.5)
6	Consumer and Producer Surplus	(chap.5)
7	Elasticity	(chap.6)
8	Elasticity	(chap.6)
9	Taxes	(chap.7)
10	Taxes	(chap.7)
11	International Trade	(chap. 8)
12	International Trade	(chap. 8)
13	Making Decisions	(chap. 9)
14	The Rational Consumer	(chap.10)
15	The Rational Consumer	(chap.10)
16	Behind the Supply Curve: Inputs and Costs	(chap.11)
17	Behind the Supply Curve: Inputs and Costs	(chap.11)
18	Perfect Competition and the Supply Curve	(chap.12)
19	Perfect Competition and the Supply Curve	(chap. 12)
20	Review of the perfect competitive market. Mid-term exam	
21	Monopoly	(chap.13)
22	Oligopoly	(chap.14)
23	Monopolistic Competition and Product Differentiation	(chap.15)
24	Monopolistic Competition and Product Differentiation	(chap.15)
25	Externalities	(chap.16)
26	Externalities	(chap.16)
27	Public Goods and Common Resources	(chap.17)
28	Public Goods and Common Resources	(chap. 17)
29	Private Information	(chap. 20)
30	Review of the market failure.	
31	Final exam	

[Out-of-class Learning]

Students should review the contents of the lecture after the class by reading the relevant chapters of the textbook and/or watching the video recordings of the class to deepen their understanding of the concepts. Students are also expected to solve and submit 6~7 problem sets. Students can also ask questions at weekly office hours offered by a TA.

3. Grading :

At the end of the term, the results of six to seven problem sets submitted will count for 30% of the final course grade.

The results of the final and mid-term written examinations will count for 70% of the final course grade.

[Evaluation Criteria]

A: Outstanding

B: Superior

C: Satisfactory

D: Minimum acceptable

E: Below the acceptable

4. Textbooks and References (4-1:Required 4-2:Others)

4-1 Required:

N/A

4-2 Others :

The book below is not necessarily "required", but the lectures will very closely follow this book (chapters indicated in the class schedule above refer to this book).

Paul Krugman and Robin Wells "Microeconomics (3rd Edition, but any other edition would do)," Worth Publishers, 2012.

Other books worth referring to.

Walter Nicholson and Christopher Snyder Intermediate Microeconomics: And Its Application (8th edition) South-Western Publisher, 2010.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

This course is an introductory course for those with no economics background. Those with some introductory microeconomics background should take Microeconomics 1 instead.

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO1050J

講義名[日本語(英語)] / Class Name : マクロ経済学

担当者（フルネーム） / Course instructor (Full Name) : 横山 直/YOKOYAMA Tadashi

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/金 Fri/2 金 Fri/3

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

本講義はマクロ経済学の基礎コースです。

本講義の担当者は日本政府や国際機関において長年にわたり経済政策の立案・総合調整や経済分析を担当してきました。

本講義の目的は、マクロ経済を理解するための基本的な考え方を学ぶとともに、現実の経済や政策について考える力を取得することです。

講義を通じて、理論、データ分析、国際比較などを通じて、受講者がマクロ経済動向や政策について理解し、自らの考え方を提示できるようになることを目指します。

なお、講義では図表を多用し、基本的な考え方をわかりやすく説明することに主眼を置きます。

【関連する SDGs】

8（成長・雇用）、9（イノベーション）、11（都市）、17（実施手段）

【関連するディプロマポリシー(DP)】

地域政策コース

② 公共政策に係る幅広い知識を持ち、的確な分析、総合的な判断、効果的な実践を行うことができる能力

インフラ政策コース

② インフラをとりまく種々の他分野について広範な知識を習得し強い俯瞰力を身につけること

防災・危機管理コース

④課題の解決に向けて、データの収集・分析等により、研究論文や政策提言としてまとめ、発表することができる能力

⑤公共政策に係る多角的な知識や各行政分野の現状・課題に深い理解を持ち、視野の広いリーダーとして活躍することができる能力

医療政策コース

②医療政策にかかる幅広い知識を持ち、多角的な視野から学術的な分析に基づいた課題解決に向けた政策分析ができる能力

農業政策コース

- ② 農林水産政策にかかる幅広い知識を持ち、多角的な視野から学術的な分析に基づいた課題解決に向けた政策分析ができる能力

科学技術イノベーション政策コース

- ② 公共政策に係る知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、分析ができる能力

国際協力コース

- ② 公共政策に係る幅広い知識に基づき、多角的な視野から問題解決を図ることのできる能力

まちづくり政策コース

- ② 公共政策に係る幅広い知識を持ち、学術的な知見に基づいて多角的に政策分析ができる能力

総合政策コース

- ② 公共政策に係る幅広い知識を持ち、的確な分析、総合的な判断、効果的な実践を行うことができる能力

2. 各授業のテーマ：

1. イントロダクション：マクロ経済学を学ぶことの意義
2. 日本経済史（高度経済成長、バブル経済、アベノミクス他）
3. 経済指標の見方：GDP 統計など
4. 経済指標の見方：物価、雇用統計など
5. 政府の機能と政策立案プロセス
6. 財政政策
7. 貨幣と物価
8. 金融政策
9. 経済成長(1)
10. 経済成長(2)
11. 人口動態と地域経済
12. 対外関係と IS バランス
13. 経済データの入手方法
14. 学生によるプレゼン
15. 授業の振り返りとミニテスト

【授業外学習】

事前に配布するパワポ資料に大まかに目を通す。授業終了後は授業中に紹介した文献等を学習する。プレゼンについてパワーポイント・スライドなどを作成する。

3. 成績の評価方法：

授業への参加態度（20%）、プレゼン（40%）、ミニテスト（40%）を総合的に勘案。

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

3回以上欠席した場合は E 評価とする。

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-2 N・グレゴリー・マンキュー(2017)『マンキュー マクロ経済学 I 入門篇(第4版)』東洋経済新報社

4-2 Macroeconomics 11th ed., (2022), N. Gregory Mankiw

4-2 OECD Economic Survey of Japan 2024, OECD

(その他参考文献等は随時紹介)

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

経済学の基礎的知識が無くても構いません。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO1060EA

講義名[日本語(英語)] / Class Name : Macroeconomics I

担当者 (フルネーム) / Course instructor (Full Name) : HSU Minchung/HSU Minchung

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I) 英学期名» / 木 Thu/1 木 Thu/2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This is a first course in the macroeconomics sequence. The course will cover broad topics relating to major macroeconomic variables, e.g. money supply, inflation, unemployment, economic growth. We will use simple macroeconomic models to illustrate the underlying mechanism behind the changes in these variables over time and their differences across countries.

[Course Goals]

Students can:

- (1) understand outlines, uses and applications of the fundamental macroeconomic concepts and theories for economic analysis,
- (2) apply the theories to evaluate related policies and macroeconomic issues

[Related Diploma Policy (DP)]

Young Leaders Program

2. Ability to conduct policy analysis and make policy recommendations to solve practical problems with extensive knowledge on public policy

One-year/ Two-year Master's Program of Public Policy (MP1) (MP2)

1. Ability to analyze micro and macroeconomic policies and make practical policy recommendations for problem solving based on the analysis

Public Finance Program (PF)

1. The ability to understand economic theory and implications behind public policies in general, tax and customs policies, in particular.
2. The ability to identify problems and evaluate public policies, customs and tax policies in particular, using various qualitative and statistical techniques, so as to make policy implications.

2. Course Outline :

- 1-2. Introduction and Macroeconomic Data

- 3-4. National Income
- 5-6. Monetary System
- 7-8. Interim evaluation + Monetary System
- 9-10. Inflation/Unemployment
- 11-12. Economic Growth
- 13-14. Economic Growth / Review
- 15. Wrap-up session
- 16. Final evaluation

[Out-of-class Learning]

Students should read the class materials distributed via the class website and/or the relevant chapters of the textbook before the class to have some understanding of the outline and prepare questions to ask in class. After class, students should review the contents of the lecture and work on the assignments so that they can be familiar with the theories. Students are encouraged to apply the theories to their home country's (policy) scenarios, on top of the ones explained in class.

3. Grading :

Problem set (40%); Quiz (20%); Final (40%)

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Macroeconomics by Mankiw (10th Edition)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

TA: Benz (PA PhD student)

Office Hour: TBA

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO1060EB

講義名[日本語(英語)] / Class Name : Macroeconomics I

担当者 (フルネーム) / Course instructor (Full Name) : PORAPAKKARM Ponpoje/PORAPAKKARM Ponpoje

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/火 Tue/3 火 Tue/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This is a first course in the macroeconomics sequence. The course will cover broad topics relating to major macroeconomic variables; eg. money supply, inflation, unemployment, economic growth. Given that these variables can be changed over time and different across countries, we will use simple macroeconomic models to illustrate the underlying mechanism behind the change and difference. The focus of this course is on the long-run equilibrium. Graphs, basic algebra, and multi-variate calculus will be frequently used to analyze the models.

[Course Goals]

- 1) Students are expected to understand basic framework determined important macroeconomic outcomes.
- 2) In addition, students must be able to provide economic intuitions behind the prediction of each macroeconomic model discussed in the course.

[Related Diploma Policy]

Macroeconomic Policy Program (MEP1):

1. Having the expertise in basic economics necessary for the analysis, formulation and implementation of macroeconomic policies, the ability to apply it to macroeconomic policy design and evaluation practices

Macroeconomic Policy Program (MEP2):

1. Having the deep expertise in basic economics necessary for the analysis, formulation and implementation of macroeconomic policies, the ability to apply it to macroeconomic policy design and evaluation practices

2. Course Outline :

Week 1.	Introduction and Macroeconomic Data and National Income (Chapter 1- 2)
Week 2.	Economy in the long run (Ch.3)
Week 3.	Monetary System (Ch.4) + Inflation (Chapter.5)
Week 4.	Unemployment (Chapter 7)
Week 5.	Economic Growth (Chapter 8 and 9)
Week 6.	Economic Growth (Chapter 8 and 9)
Week 7.	Theory of Investment (Chapter 17)

Week 8. Reviews

Final exam: TBA

[Out-of-class Learning]

There will be outside class assignments. Each problem set must be handed in at the beginning of class (the due date will be in the problem set sheet). A missing problem set or a late submission will be assigned zero credit. Students are encouraged to have a group discussion but everyone has to hand in your own answers to get credit. The problem set with the lowest score will be dropped off when calculating the courses total score.

3. Grading :

Problem set (20%)

Final exam (80%)

The final exam must be taken on the assigned schedule. A makeup final exam is allowed only in an extreme case, eg. serious accident or hospitalization.

[Evaluation Criteria]

Student's achievements of the Course Goal is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Mankiw, N. Gregory. Macroeconomics (10th ed.). New York: Worth, 2018. *10th ed. is the latest edition for 2019. Students are required to have the textbook. The previous edition is acceptable but students need to match chapters and problem sets with the 10th Edition. A copy of the 10th Edition is on reserved in our library.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO1800E

講義名[日本語(英語)] / Class Name : Economic Development of Southeast Asia

担当者 (フルネーム) / Course instructor (Full Name) : 工藤 年博/KUDO Toshihiro

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

First, this course provides an overview of the economic and industrial development of Southeast Asia in the broader Asian context. Second, the course analyzes the development factors and mechanisms of Asia and Southeast Asia in the context of globalization. Third, the course provides an overview of regional integration and cooperation programs, including the ASEAN Economic Community (AEC) and the Greater Mekong Subregion (GMS) Economic Cooperation. Fourth, the course discusses free trade networks and Japans economic cooperation in the Indo-Pacific. Fifth, we will have some country-based studies, including Indonesia as an example of a middle-income country and Myanmar as a low-income country. We pay attention to the issue of middle-income trap and the advantages and disadvantages of latecomers.

In this course, students aim:

- a. to understand an overview and history of the economic development of Southeast Asia,
- b. to understand the development of Southeast Asian economies in the context of globalization,
- c. to understand the challenges facing Southeast Asian economies such as the middle-income trap and declining birthrates,
- d. to assess the effectiveness of regional integration initiatives such as the ASEAN Economic Community (AEC) and the Greater Mekong Subregion (GMS) Economic Cooperation in promoting economic growth and development.

This course is related to Goals 8, 9, 10, and 17 of the SDGs.

[Related Diploma Policy (DP)]

Macroeconomic Policy Program (One-year program) ③

Macroeconomic Policy Program (Two-year program) ③

Economics, Planning and Public Policy Program ①, ②, ③, ④

2. Course Outline :

1. Why do we study economic development of Southeast Asia?
- 2-3. Asia and ASEAN in Globalization
- 4-5. ASEAN Economic Community (AEC)
- 6-7. FTA Networks in Asia and ASEAN

8. Trade in Services
- 9-10. Country Study (1) Indonesia
- 11-12. Country Study (2) Myanmar
13. Financial Development in Southeast Asia
14. Japan's Regional Cooperation
15. Discussion

Out-of-class learning

Students should read the materials distributed through the teams and/or the relevant chapters of the textbook prior to class in order to understand the outline and questions to be asked in class. After class, students should review the content of the lecture and consider how the issues learned apply to their country and what the policy implications are.

3. Grading :

Grading is based on your contribution to class discussion and a term paper.

Students are required to write a term paper at the end of the course.

The topic of the paper will be chosen in discussion between the students and the instructor.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Kenta Goto, Tamaki Endo, and Asei Ito (eds.) *The Asian economy: contemporary issues and challenges*, Routledge, 2021.

Kenneth Pomeranz, *The great divergence: China, Europe, and the making of the modern world economy*, Princeton University Press, 2000.

Richard Baldwin, *The great convergence: information technology and the new globalization*, Harvard University Press, 2016.

Richard Baldwin, *The globotics upheaval: globalisation, robotics and the future of work*, Oxford University Press, 2020.

ASEAN Economic Community Blueprint, 2015, available at the ASEAN website.

ASEAN Economic Community Blueprint, 2025, available at the ASEAN website.

Mid-Term Review ASEAN Economic Community Blueprint 2025, available at the ASEAN website.

Fukunari Kimura, Mari Pangestu, Shandre M. Thangavelu, and Christopher Findlay (eds.), *Handbook on East*

Asian Economic Integration, Edward Elgar Publishing, 2021.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Allow

7. Note :

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO2020J

講義名[日本語(英語)] / Class Name : 政府と市場

担当者 (フルネーム) / Course instructor (Full Name) : 細江 宣裕/HOSOE Nobuhiro

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/木 Thu/2

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

1.1 目的-あなたの知っている経済学で何が説明できるか・できないか

本講義の目的は 2 つである。

1 つ目は、学生がミクロ経済学 I(ECO1000J)・同 II(ECO1010J)によって修得した経済学的手法 を用いて、われわれが日々目にする大小の社会・経済的問題を経済学的視点から分析し、その解決策を提示できるように訓練を行う、一種の経済政策の科目としてである。

ミクロ経済学 I・II では、まず分析手法が解説され、つぎにそれを用いた分析例や応用例 が提示されてきた。ここでは、それぞれの社会・経済現象に対して、どのような手法を適用して考察するべきか、あるいは、そのほかの分析方法はないのかといった視点で検討する訓練を行い、経済学的考え方に関する理解と応用力を高め、一方で、その限界に関する 理解を深める。前者はいわば数学の計算問題にあたり、ここで行われるものは文章題にあ たりと考えればよい。

2 つ目は、学生が自分の考えを、よりよく相手に伝える方法(プレゼンテーション等)を学び実践できるようにすることにある。書籍や論文を読んで自分が理解することと、その内容を他人に理解させることは、まったく異なる事柄である。ここでは、上で書いたように、経済学の本の中の短い 1 章、あるいは、執筆途中の自らの論文を題材にし、その内容を聴衆に伝える方法、聴衆がそれを聴いて(広い意味で知的に)楽しむことができるようにすることができする方法を学ぶ。

1.2 講義形式と履修要件

報告担当者・グループが下記の文献、または、自らが執筆中の論文(ポリシー・ペーパー 等)を参考にして、その内容を全員に理解できるように解説するゼミ形式で行う。

解説の内容としては、概要、重要または各自が興味を持った箇所の解説、ほかの出席者 が一読しただけではわからないであろう箇所の説明、(ほかの出席者に訊いてみたい、助け を求めたい)報告者自身の疑問・質問、日本の社会・経済、あるいは、各自の興味ある分野 に照らしたときの示唆といった事柄を含むことになるであろう。担当箇所のすべてをカバーする必要はないし、実際、メリハリ無く平板にすべてをなぞるだけでは出席者は満足しないであろう。報告者以外も、よい質問を通じた講義への貢献のために該当箇所を一読し ておくべきことは言うまでもない。

なお、ミクロ経済学 I・II、ないし、同様の科目で講じられる経済学の知識があることが 望ましいが、それらの単位取得がなされていなくても受講することは可能である。ミクロ経済学(等の経済学の講義)を履修して、それがどのように役に立つのかについて関心があるとより有益な講義になるであろう。また、経済問題以外に対しても経済学的アプローチを使って分析する方法を知る機会にもなり得る。

この講義は、SDGs の目標 8(経済成長), 9(産業と技術), 11(都市と住宅)等に関連する。

【関連するディプロマポリシー(DP)】

公共政策プログラム

防災・危機管理 C: (5) 公共政策に係る多角的な知識や各行政分野の現状・課題に深い理解を持ち、視野の広いリーダーとして活躍することができる能力

医療政策 C: (2) 医療政策にかかる幅広い知識を持ち、多角的な視野から学術的な分析に基づいた課題解決に向けた政策分析ができる能力

(5) 地域の実情に合わせ、異なる価値観に対して深い理解をもち、地域のコーディネーターとして活躍することができる能力

農業政策 C: (2) 農林水産政策にかかる幅広い知識を持ち、多角的な視野から学術的な分析に基づいた課題解決に向けた政策分析ができる能力

科学技術イノベーション C: (2) 公共政策に係る知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、分析ができる能力

国際協力 C: (2) 公共政策に係る幅広い知識に基づき、多角的な視野から問題解決を図ることのできる能力

まちづくり政策 C: (2) 公共政策に係る幅広い知識を持ち、学術的な知見に基づいて多角的に政策分析ができる能力

(3) まちづくりに係る政策課題について、データや現地調査結果等の様々なエビデンスを用いた分析・評価を行い、その結果に基いた政策立案 (EBPM) ができる能力

総合政策 C: (2) 公共政策に係る幅広い知識を持ち、的確な分析、総合的な判断、効果的な実践を行うことができる能力

地域政策 C: (2) 公共政策に係る幅広い知識を持ち、的確な分析、総合的な判断、効果的な実践を行うことができる能力

インフラ政策 C: (2) インフラをとりまく種々の他分野について広範な知識を習得し強い俯瞰力を身につけること

【到達目標】

学生が到達すべき目標は以下の通り。

(1) 社会・経済問題をミクロ経済学等の経済学的な考え方を利用して分析することができるようになる。

(2) 経済学や関連分野に関する学術的な分析内容(手法や結果)について、専門的知識や背景事情に関する知識を一定程度を持つ人がよりよく理解できるように伝える技術を習得する。

(3) 経済学や関連分野に関する学術的な分析内容(手法や結果)について、専門的知識を必ずしも持たない人が一定程度理解できるように伝える技術を習得する。

2. 各授業のテーマ：

本講義で解説されるモデルの内容と毎週のスケジュールは以下の通りである。

2.1 講義解説：『20歳の時に知っておきたかったこと』

講義の解説を行い次回以降の報告担当者を決める。報告担当箇所は、可能な限り各自が(先着順等で)志願した箇所になるようにする予定。最後に質疑と、頭の準備体操をする。

2.2 初級編：『経済学で現代社会を読む』

社会・経済問題に関してどのように経済学的な切り口を与えることができるかを、最も標準的な形で学ぶ。本書後半に各章の解説編がついているので(ただし、最新の改訂新版にはこれがないので本講義には不適)これを参考に議論をすることができる。

2.3 中級編：『ヤバい経済学：悪ガキ教授が世の裏側を探検する』

ここで示される経済学的分析手法としては、ミラーほか(1995)中の経済モデルのようにうまく「型にはめた」ものは少ないが、経済学的な考え方(直感)をどのように適用するべきか、それによってどのように「通念」に挑戦するかを学ぶことができるであろう。くわえて、(数学的要素の少ない)簡便な方法で問題に答える方法についても示唆を与える。

2.4 上級編：『フリーからお金を生み出す新戦略』

一種のITビジネス書である一方、経済学的な考え方の有効性とそれに関する各自の理解度を試すよい機会を提供している。Web・デジタル化を通じた「無料」サービスが本当に無料なのか、なぜ可能になるのか、(これまでに学んだ)経済学でこれを説明できるか等、考える課題に事欠かない。

第1回において講義内容の説明を行なう。

その後、参加者がどの文献・章を担当するかを決める。

各回において担当箇所の報告(要領は上記)を行い、それに関する質疑・討議を行う。

必要に応じて追加的に参照すべき文献や事例等の指示を行う。それに対する報告を次回(以降)に行って報告を完了させる。

【授業外学修】

あらかじめ、提示された文献について大まかに目を通して、各自が担当したいものについて検討しておく。報告スケジュールが決まったら、各回で用いられる文献・章を精読する。報告者は効果的なプレゼンテーションを目指してパワーポイント・スライドなどを作成する。報告担当者以外は文献とスライドを参考に、よい質問をするために質疑すべき点を洗い出す。報告会終了後は、そこで出された課題(追加的参照文献や、調査事項)について同様の活動を行う。また、教材で触れられた事例と類似する事例について、自分の身の回りにある事例について調べ、教材で紹介されたような経済学的分析手法の妥当性について吟味してみる。

3. 成績の評価方法：

講義における貢献(報告内容やディスカッションなど)で評価する。各自の報告内容を中心に、ほかの報告者による報告内容を補足したり不明点をあぶり出したりする質問等によって、出席者全員の理解と学問的満足度を高める貢献を高く評価する。

【成績評価基準】

- A: 到達目標を高い水準で達成している
- B: 到達目標を満足できる水準で達成している
- C: 到達目標を概ね達成している
- D: 到達目標を最低限の水準で達成している
- E: 到達目標を達成していない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1 必携のテキスト等

・本講義を履修することを検討している場合には、夏学期の間に以下の3つの教科書にあらかじめ目を通しておくといえよう。これらの教科書中の1章ないし数章・履修者数に依る・ずつを出席者が報告する。(最終的にこれらのすべての章をカバーしようという意図はない。)

ミラー, R. L. ほか(1995)『経済学で現代社会を読む』, 日本経済新聞社. (改訂新版 2010) ではない方)

レヴィット, S. D., ダブナー, S. J.(2007)『ヤバい経済学: 悪ガキ教授が世の裏側を探検する』, 増補改訂版, 東洋経済新報社.

アンダーソン, C. (2009)『フリーからお金を生み出す新戦略』, 日本放送出版協会.

Miller, R. L. et al. (2013) The Economics of Public Issues, Pearson.

Levitt, S. D., Dubner, S. J. (2009) Freakonomics, Harper.

Anderson, C. (2009) Free: The Future of a Radical Price, Hyperion.

4-2 その他

・本講義には直接役立つわけではないが、第1章だけでもGRIPSにいる間に読んでおく(頭の準備体操)

シーリグ, T. (2010)『20歳の時に知っておきたかったこと』, 阪急コミュニケーションズ. Seelig, T. (2009) What I Wish I Knew When I Was 20, Harper.

・ミクロ経済学 I(ECO100J)・同 II(ECO101J)の教科書 八田達夫(2008)『ミクロ経済学 I』, 東洋経済新報社. 八田達夫(2009)『ミクロ経済学 II』, 東洋経済新報社.

5. 講義で使用するソフトウェア (特にない場合は空欄でも可) :

6. 聴講の可否

可 Allow

7. 履修上の注意 :

教科書の内容を理解することも意義があるが、それ以上に、自分が見聞き・知悉している内容をうまく伝える技術を体得するための訓練の場所でもある。受講者の希望、時間的余裕次第では、教科書の内容に限らず、追加的に、各自の執筆中の論文の内容に関連した事柄を報告する、中間報告、最終報告

の練習をすること、また、オーディエンスとしても、ほかの学生によるプレゼンテーションからどのような方法が効果的かを学びつつ、報告者の口頭報告を改善するためによいコメントをする方法を学ぶことも有益である。単位修得を目的としない聴講も可能であるが、受講生と同様の貢献を必要とする。

開講年度 (2024.4月-2025.3月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO2600J

講義名[日本語(英語)] / Class Name : 経済政策の理論と展開

担当者 (フルネーム) / Course instructor (Full Name) : 松谷 明彦/MATSUTANI Akihiko

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/月 Mon/4

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

講義の主眼は、応用経済学の学習と、日本の経済構造及び意思決定構造の分析を通じて、経済政策を企画立案する能力を涵養するところにある。

講義においては、急激な人口減少高齢化、欧米先進国との技術格差の拡大及び新興国・途上国の台頭という環境変化に直面する日本経済および地域経済への政策的対応に重点が置かれる。

【到達目標】

経済学の学習に当たり不可欠であるべきは、経済学の限界を知ることではない。哲学の欠落という致命的欠陥のために、現在の経済学は、現状追認の価値観の下での資源活用の効率化に終始する。本講義を通じ、望ましい経済政策は、経済学と政治学、社会学、歴史学、心理学等との社会科学的統合からのみ生まれることを知ることになる。

【関連するディプロマーポリシー (DP)】

公共政策プログラム

地域政策コース DP②

インフラ政策コース DP①

防災・危機管理コース DP⑤

医療政策コース DP②、⑤

農業政策コース DP②

科学技術イノベーション政策コース DP②

国際協力コース DP②

まちづくり政策コース DP②

総合政策コース DP②

2. 各授業のテーマ :

講義では様々な政策課題を取り上げることになるが、その場合、不可欠の視座であるべきは以下の五点である。

(1) 付加価値の分配と支出

経済政策の主要な目的の一つは最適な資源配分の達成にある。しかし、如何なる資源配分状態をもって最適とするかは、国により社会により異なり、最適性についての一義的な、あるいは万国共通の基準は存在しない。従って経済政策の分析に当たってまずなすべきことは、何を以って最適とするかという価値観と視座の明確化である。

産出された付加価値は企業に於いて各生産要素に分配され、次いで各経済主体によって支出される。従って資源配分の態様は基本的に国民自身の経済行動の結果であるが、経済政策はその分配と支出の過程に関与し、資源配分の態様に一定の影響を与え得る。

付加価値の分配と支出のメカニズムの考察において不可欠であるべきは、生産活動に見合った国民生活水準を達成するために我々は何をなすべきかという視座である。

（２）開放経済の均衡国民所得

経済は自律的均衡メカニズムを持ち、そのメカニズムによって各国民の経済行動を組み上げつつ、自らの大きさ即ち国民所得を決定する。この場合、多くのパラドックスの存在によって、各国民は自己の経済行動が国民所得にもたらす正確な結果を予め知ることは出来ない。

国民所得は、財・サービス市場、労働市場、金融市場そして対外市場を通じた一般均衡によって、利子率とともに決定される。従って経済政策は、上記のメカニズムに対する認識の下で、それら四市場に均等に対峙しなければならない。

国民所得の決定メカニズムの考察において不可欠であるべきは、自国民の生産活動の成果を自国民自身が最大限享受し得るために我々は何をなすべきかという視座である。

（３）経済成長

資源は常に有限であり、経済はあくまでその制約の下での効用をもたらすに過ぎず、国民の欲求は必ずしも十分に満たされる訳ではない。従って利用可能な資源の増大である経済成長は、経済社会に於ける多くの問題を解決してきた。

しかし人口減少社会の到来によって、我が国経済の成長率は大幅に低下し、更には傾向的なマイナス成長に転ずることが確実に予見される。加えて人口減少という環境変化は経済の自律的メカニズムそのものを変質させることから、経済成長さらには景気循環における均衡経路は、これまでとは異なったものになる可能性が高い。

今後の我が国経済の成長経路の考察において不可欠であるべきは、我々は果たして如何なる経済社会を目指すべであるのか、そしてそのために如何なる手法を用いることがより多くの国民を幸福にし得るのかという視座である。

（４）企業行動と産業政策

資源配分を規定する最大の要因は企業の行動様式である。そして企業の行動様式はその国の経済を取り巻く固有の環境に於いて、その国の歴史的、文化的基盤の上に成立する。企業は、ミクロ経済学における仮定を遥かに超えて、市場に於ける非対称性と政治的意思決定過程に於ける利益集団の形成を梃子に、経済社会に於けるその存在を拡大し続ける。そして、戦後のわが国特有の企業行動が、現在の経済構造を他国に例を見ない特徴的なものとした。

従って、今後の産業政策の考察において不可欠であるべきは、資源制約下の人口減少社会に於い

てより多くの国民を幸福にする企業行動とは如何なるものなのかという視座である。

（５）市場の欠陥と政府の機能

市場が資源配分の最適性を確保し得ない場合、即ち市場の失敗については、公共財、リスク、規模の経済等のケースが知られるが、いずれの場合もそれは市場機能への信頼を揺るがすほどのものではなかった。しかし我々は、市場の価格決定システムそれ自体が本来的に持つ失敗、いわば市場の欠陥とも呼ぶべきものが、資源の有限性や地球環境悪化の急速な進行、社会の不安定性の拡大のなかで、無視出来ぬ大きさをもって顕在化しつつあることを見過している。

しかもそれらは、市場機能を前提とした従来の介入手法では十分に治癒されない性質のものであり、ここに市民革命以来、自由社会の旗手であり続けた市場は、いまその存在価値そのものを問われているのである。

資源配分の最適性と市場に対する政府の役割の考察において不可欠であるべきは、我々はそうした無視出来ぬ大きさの欠陥を持つ市場に直面しているという視座である。

【授業外学修】

特に予習・復習等は要しないが、翌週の授業でディスカッションが予定されている場合には、必要に応じ、関連する実態の把握に努めるとともに、自己の考えを十分に整理・精査しておくこと。

3. 成績の評価方法：

講義においては、学生間のディスカッションを織り交ぜながら、日本経済が直面する環境変化と今後の短期的及び中長期的な望ましい経済政策について、講義を進めることとし、当該ディスカッションにおける成果を基に各人の成績を判定する。

期末試験、レポート提出等を行わない。

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

J. Galbraith & W. Darity Jr. Macroeconomics 1994, Houghton Mifflin Co., Boston

(「現代マクロ経済学」塚原康博他訳 TBS ブリタニカ)

N.Gregory Mankiw Macroeconomics 1992, Worth Publishers Inc. New York

(「マクロ経済学 I、II」足立英之他訳 東洋経済新報社)

Joseph E. Stiglitz Microeconomics 1993, W.W.Norton &Company Inc.

(「ミクロ経済学」 藪下史郎他訳 東洋経済新報社)

Charles I. Jones Introduction to Economic Growth 1998, W.W.Norton &Company Inc.

(「経済成長理論入門」 香西泰訳 日本経済新聞社)

松谷明彦「人口減少経済」の新しい公式」2004、日本経済新聞社

松谷明彦「2020年の日本人」2007、日本経済新聞出版社

松谷明彦「人口流動の地方再生学」2009、日本経済新聞出版社

松谷明彦「人口減少時代の大都市経済」2010、東洋経済新報社

松谷明彦「東京劣化」2015、PHP研究所

小宮隆太郎「現代日本経済」1988、東京大学出版会

浜田宏一他編「日本経済のマクロ分析」1987、東京大学出版会

日本経済政策学会編「日本の社会経済システム」1995、有斐閣

岡崎哲二他編「現代日本経済システムの源流」1993、日本経済新聞社

小宮隆太郎他編「日本の産業政策」1984、東京大学出版会

小宮隆太郎「日本の産業・貿易の経済分析」1999、東洋経済新報社

Andrew B. Schmookler The Illusion of Choice 1993, State University of N.Y. Press

(「選択という幻想」 河田富司訳 青土社)

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

無し

6. 聴講の可否

可 Allow

7. 履修上の注意：

特に無し

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO2720EA

講義名[日本語(英語)] / Class Name : Introduction to Applied Econometrics

担当者 (フルネーム) / Course instructor (Full Name) : WIE Dainn/WIE Dainn

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/3

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

1 Course Outline

Econometrics is the useful methodology of economics and other social studies. This course aims to introduce students to multiple regression and related methods to analyze data and connect data from the real world to economic models. We start by learning linear regression model which is widely used tool for economists. Additionally, we will study methods for panel data analysis, instrumental variables regression, and program evaluation. This course focuses on developing practical methodology and applying them to real data using STATA. The mathematics of econometrics will be introduced only as needed and will not be a central focus. Throughout the course, students will develop the ability to quantify causal relationship between policy variables and economic outcomes-knowledge essential for the EBPM (Evidence-Based Policy Making).

Related Diploma Policy [DP]

Public Policy MP1& MP2 [DP2]: Ability to analyze micro and macroeconomic policies and make practical policy recommendations for problem solving based on the analysis

2 Achievement Goals

Mastering Regression Analysis:

Students should understand how to apply various models to estimate unbiased estimates of policy impacts.

Students should understand OLS classical assumptions, internal and external validity threats and its implications in real life context.

Students should understand Panel and Instrumental Variable Estimation and its application in policy analysis setting.

Proficiency in STATA Software:

Students should gain practical skills in using STATA software for data management, analysis, and visualization.

Students should demonstrate competence in conducting regression analysis, hypothesis testing, and generating graphical outputs using STATA commands.

2. Course Outline :

Course Contents

The main theme of the course is to delve into the understanding of Ordinary Least Squares (OLS) regression and its limitations. Through this understanding, students will explore the nuances of OLS and learn to critically evaluate its applicability in empirical analysis. Additionally, the course will provide extensions in understanding by introducing techniques such as Panel Data Analysis and Instrumental Variable Estimation.

Week

- 1 : Review of Probability Theory and Overview
- 2 : Review of Statistics and Hypothesis Testing
- 3 : Linear Regression + STATA Session
- 4 : Violation of Classical Assumptions
- 5 : Multiple Regression
- 6 : Nonlinear Regression
- 7 : Regression Assessment
- 8 : Panel Data 1
- 9 : Panel Data 2
- 10 : Instrumental Variable 1
- 11 : Instrumental Variable 2
- 12 : Difference-in-differences 1
- 13 : Difference-in-differences 2
- 14 : Applications and Interpretation
- 15 : Review Session (30 minutes) and Final Examination (60 minutes)

Out of Class Learning for Each Class:

Students are expected to read the assigned chapters in the textbook prior to each class to enhance their understanding of the material covered. Additionally, after class, they are encouraged to review the course materials and complete problem sets using STATA regularly to cultivate their analytical skills.

Week	Date	Topic	Problem Set		TA Session
			Posting	Due date	
1	Oct 9	Introduction	PS #1		
2	Oct 16	Statistics+Hypothesis+STATA			PS#1 support +STATA
3	Oct 23	OLS			

4	Oct 30	Multiple Regression+Joint hypothesis testing	PS #2	PS #1	
5	Nov 6	Violation of Classical Assumptions			
6	Nov 13	Non-linear			PS#2 support
7	Nov 20	Review		PS#2	Past exam review+QA
	Nov 27	Midterm			
8	Dec 4	Internal Validity Threats	PS #3		
9	Dec 11	Panel Data (1)			PS#3 support
10	Dec 18	Panel Data (2)		PS#3	
11	Dec 25	Instrument Variable (1)	PS\$4		
12	Jan 8	Instrument Variable (2)			PS#4 support
13	Jan 15	Difference-in-Differences (1)		PS#4	
14	Jan 22	Difference-in-Differences (2) or Review			Past exam review+QA
15	Jan 29	Final Exam			

3. Grading :

There will be four assignments (10% each) and two exams (30% each). The overall grade will be determined on a curve and will follow Grips assessment policy.

Assignments

Problem sets and data will be posted on the course web page. You will be required to use STATA. Please submit your assignment in class on designated due date. Students are welcome to work in groups on their problem sets, but each student must write up his or her answers separately. The maximum group size is 3. Please list the names of those with whom you worked on your assignments. Please append your STATA "log" files and "do" files to your assignments.

A: Students demonstrate a high level of understanding in written form, regarding estimators and their assumptions. Students should show how to apply knowledge learned in class to interpret and discuss regression tables in actual policy analysis context.

B: Students exhibit a solid understanding of fundamental concepts discussed in class, and should be able to interpret regression tables accordingly.

C: Students demonstrate a basic understanding of fundamental concepts in introduction to applied econometrics class.

D or E: This category encompasses students who do not meet the criteria outlined in the previous

descriptions.

4. Textbooks and References (4-1:Required 4-2:Others)

Stock J. H., and Watson, M.W., Introduction to Econometrics, Addison-Wesley, any Edition.

Lecture Notes (PPT) on the course web site

Useful Online Resources for STATA:

1.STATA Website: <http://www.stata.com/>

2.UCLA Institute for Digital Research & Education

<https://stats.idre.ucla.edu/stata/>

5. Software Used in Lectures (If not applicable, it can be left blank.) :

STATA will be used in classes.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Future Recommendations

1. Future Readings

You may find it useful to read other textbooks after you take this course. These textbooks will not be used in the course, but provide ample treatments of topics we cover in class:

1.Wooldridge, J.M., *Introductory Econometrics*, Southwestern College Publishing.

2.Angrist, J., and Pischke, J.S., *Mostly Harmless Econometrics: An Empiricist's Companion*, Princeton University Press.

2. Future Courses (Strongly recommended)

1) Selected Topics in Policy Studies (Introduction to Policy Evaluation) (Winter): for someone who wants to further develop their micro-econometrics knowledge

2) Applied Time Series Analysis for Macroeconomics (Winter): for someone who wants to further develop their macro-econometrics knowledge.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO2720EB

講義名[日本語(英語)] / Class Name : Introduction to Applied Econometrics

担当者 (フルネーム) / Course instructor (Full Name) : IZUMI Yutaro / 泉 佑太郎

学期・曜日・時限 / Term・Day・Period : Fall 秋 / Wed 水 / 2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Econometrics is a tool commonly used in economics and other social sciences to analyze real-world data. This course introduces basic econometric techniques to equip students with the knowledge and practical skills necessary to comprehend empirical research papers and to plan and execute their own empirical research.

[Learning Objectives]

- ・ Understand the basic concepts in econometrics
- ・ Use statistical software (Stata) to conduct original empirical research
- ・ Critically evaluate empirical research papers with econometric analysis

[Related Diploma Policy]

Macroeconomic Policy Program (MEP1): 1

Macroeconomic Policy Program (MEP2): 1

Public Finance Program (PF): 2, 4

2. Course Outline :

Review of probability theory and statistics

Introduction to Stata

Randomized experiments

Regression

Panel data methods

Difference-in-differences

Instrumental variables

(Subject to change)

[Out-of-class study]

Students are expected to review the lecture materials after each session and also work on the problem sets.

3. Grading :

Problem sets (30%)

Midterm exam (30%)

Final exam (40%)

The overall grade will be determined on a curve and will follow the GRIPS assessment policy.

The problem sets include theoretical questions and data analysis questions using Stata.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

4.1

Stock, J.H. and M.W. Watson, Introduction to Econometrics, Pearson Education

4.2

Angrist, J.D. and J.S. Pischke, Mastering Metrics: The Path from Cause to Effect, Princeton University Press

Wooldridge, J.M., Introductory Econometrics, Southwestern College Publishing.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

In this course, Stata will be used as a primary statistical software tool. A brief tutorial session on Stata will be conducted to familiarize students with its functionalities. For students enrolled at GRIPS, access to Stata is provided at no cost.

6. Auditing ; Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO3110E

講義名[日本語(英語)] / Class Name : Fiscal Reform in Japan

担当者 (フルネーム) / Course instructor (Full Name) : 大田 弘子/OTA Hiroko

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/木 Thu/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Course Description and the Learning Objectives :

In this course, we will discuss the current problems with Japan's public finance policy and the necessary reforms to address them. Japan's public finance faces several important issues. First, making a fiscal consolidation plan to lower the huge amount of government debt is urgent. We will review factors of financial deterioration, Japan's budgeting system, and efforts for fiscal consolidation. Second, amid rapid population aging, implementing social security reform is very important. Although an excellent social security system was established in Japan after World War II, it now requires reforms to overcome rapid population aging. We discuss problems and reforms of the medical care system and pension system. Third, taxation reform in response to globalization and population aging is vital.

In addition to the aforementioned issues, we will discuss other important issues such as local public finance, privatization, and public loan programs in Japan.

Students will learn how to approach specific public finance policy issues through examples of Japan's various policy initiatives, both successful and unsuccessful.

In this course, each student will give a presentation on his/her country's public finance policy. By presenting and discussing their own country's public finance policies while learning about examples of Japanese policies, students will deepen their understanding of their country's approach to public finance issues.

[Related Diploma Policy (DP)]

Macroeconomic Policy Program (MEP1&2),

(2) Ability to analyze and present optimal policies from a cross-sectoral perspective with broad knowledge of applied fields in economics and public policy

(3) Ability to make policy recommendations for practical solutions based on a deep understanding of the current state of macroeconomic policy theory and practice and the systems and examples of countries around the world

Public Finance Program (PF):

(1) The ability to understand economic theory and implications behind public policies in general, tax and customs policies, in particular.

(2) The ability to identify problems and evaluate public policies, customs and tax policies in particular, using various qualitative and statistical techniques, so as to make policy implications.

[Course Goals]

Students can:

understand the issues facing the Japanese public finance and present opinions on where the problems lie and how to solve them,

theoretically explain the concept of taxation, social security system, redistribution policy, etc.

clearly explain the public finance policies of one's own country, its problems, and solutions.

2. Course Outline :

Course Outline :

1. Introduction (Course outline and overview of Japan's economy today)
2. Overview and brief history of Japan's public finance
3. Population aging and its effects on public finance
4. Social security system in Japan 1 - Overview of social security-
5. Social security system in Japan 2 - Medical care system in Japan-
6. Social security system in Japan 3 - Pension system in Japan
7. Political economy of budget
 - Special lecture by Prof. Hideaki Tanaka of Meiji University -
8. Taxation system 1 -Basic theory of taxation-
9. Taxation system 2 -Japan's tax system and corporate tax-
10. Taxation system 3 -Individual income tax and consumption tax-
11. Decentralization and local public finance
12. Government loan program in Japan (FILP)
13. Privatization
14. Policies for managing and preventing sovereign debt crisis
15. Policy-making process in Japan

[Out-of-class Learning]

No preparation is required. After each lecture, students are required to review relevant public finance policies and relevant economic data in their home country on each topic. In addition, students are expected to be interested in policy trends and news on Japan's finances.

3. Grading :

Grading:

Evaluation methods and content are as follows

Active participation in class by speaking up, asking questions, etc. (20%)

A concise and targeted presentation (10 minutes) on the public finance policy of the students own country and answers to questions from the students (30%)

Term paper on one of the following themes (50%)

- Analyzing issues related to fiscal reform in Japan or in your country
- Comparing issues related to public finance policies in your country with that of Japa

4. Textbooks and References (4-1:Required 4-2:Others)

Materials concerning each topic will be provided in class.

Hiromitsu Ishi, The Japanese Tax System (Third Edition), Oxford University Press, 1989

Takero Doi and Toshihiro Ihori, The Public Sector in Japan, Edward Elgar Publishing, 2009

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

開講年度（2024.4月-2025.3月） / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO3300J

講義名[日本語(英語)] / Class Name : 都市経済学

担当者（フルネーム） / Course instructor (Full Name) : 岡本 亮介/OKAMOTO Ryosuke

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/6

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

都市経済学は、都市内部の空間構造と地域間（都市間）の関係の両方を経済学的に分析するものである。したがって、本講義は、現実経済を空間的視点で分析するための道具を身につけることを目的とする。本講義を受けた後で、自ら問題を設定して解決することができるようになることを期待する。

【関連するディプロマポリシー（DP）】

まちづくり政策コース DP①、②、③

2. 各授業のテーマ：

- 第 1 回：都市の成立要因
- 第 2 回：古典的産業立地論
- 第 3 回：集積の経済
- 第 4 回：2 地域モデル
- 第 5 回：地方公共財における価格メカニズム
- 第 6 回：単一中心都市モデルⅠ
- 第 7 回：単一中心都市モデルⅡ
- 第 8 回：土地政策・交通政策の効果
- 第 9 回：都心・副都心の形成
- 第 10 回：都市の階層構造
- 第 11 回：交通の混雑費用の計測
- 第 12 回：公共投資の最適性の検証
- 第 13 回：集積の経済の計測
- 第 14 回：交通ネットワークの費用便益分析
- 第 15 回：交通ネットワークの費用便益分析Ⅱ

【授業外学修】

Teams 上にアップロードしてある講義資料を予習復習する。

3. 成績の評価方法：

レポートによって評価する。

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

否 Not Allow

7. 履修上の注意：

ミクロ経済学の予備知識を持っていることを前提とする。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO3810E

講義名[日本語(英語)] / Class Name : Economic Development of Japan

担当者 (フルネーム) / Course instructor (Full Name) : 橋野 知子, 松永 正英/HASHINO Tomoko and MATSUNAGA Masaei

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course is divided into two. The first half of this course is concerned with the identification of critical factors why Japan succeeded in Modern Economic Growth in 19-20 centuries. The second half of the course explores the essence of Japan's development cooperation (DC) in the processes of economic growth in Japan.

【Outline of Course】

(first half)

It is well-known that Japan was the first country to complete Modern Economic Growth or industrial revolution outside western countries before the WWII. Why was it possible for Japan to catch up with western countries? In addition, why was Japan's growth so rapid? Who was the promoter of the growth? To consider above questions, we will focus on several key topics in the process of industrializing Japan after introducing the overall structure of the course.

- (1) Historical background of Modern Economic Growth: Edo Period (1603-1867)
- (2) Institutional changes led by Meiji Government
- (3) Industrial policies vs. private initiatives
- (4) Role of industrial clusters
- (5) Wars and economic development

Besides, by introducing 'student's driven class' which students make presentation about the development of industrial cluster, we would like to share not only the knowledge but also the wisdom who or how promoted the development of industrial cluster in different countries.

(Second half)

Because of its historical context Japan's DC retains many unique features that are not common among Western countries, which often results in criticism by the latter as deviation from the global norms of development cooperation. Nonetheless, the uniqueness of Japan's DC is considered to generate two-way efficacy for both parties of cooperation, contributing to its own as well as partner countries' development. This part is designed for participants to examine such uniqueness with its merits and demerits, focusing on the relation with Japan's industrial development. Based on the findings, participants are expected to conceive an idea to accelerate economic growth of their country either by using their own DC with partner countries or by using Japan's DC skillfully.

【Related Diploma Policy(DP)】

[GRIPS Global Governance Program]

1. Ability to plan, formulate, implement, and analyze policies from a broad perspective, based on expert knowledge in economics and politics, while being mindful of history and the reality on the ground.

[Young Leaders Program]

2. Ability to conduct policy analysis and make practical policy recommendations to solve problems with extensive knowledge on public policy.

3. Ability to build and develop friendly relations with Japan based on a deep understanding of Japan

【Course Goals】

Students can;

(1) understand not only development history of Japan in 19-20C but also the critical role of initiatives of private sector in economic development.

(2) explain the role of government in the process of development.

(3) acquire the comparative perspective for analysis by doing research on the development of industrial clusters in their own countries and learning from the research conducted by other students.

(4) explain the essence of the transition of Japan's DC strategies to those unfamiliar with Japan's historical context.

(5) formulate a basic DC strategy for their countries, either as an implementer of south-south cooperation or as a beneficiary of DC proposed by others.

2. Course Outline :

(first half)

(1) Overview: Following the 150 year history of Japanese economy

(1) Finding factors promoting MEG: Historical background before Meiji Period

(2) What did the government do? 1: Institutional changes in the early Meiji Era (1868-1912)

(3) What did the government do? 2: Educational reform and 'innovation'

(4) Who was the leader of industry? 1: Modern industries or Traditional industry?

(5) Who was the leader of industry? 2: Role of industrial clusters in economic development

(6) Wartime economy and its legacy

(7) Student's driven class 1: How and why did industrial cluster develop in my country?

(8) Student's driven class 2: How and why did industrial cluster develop in my country?

【Out-of-Class Learning】

In preparation for each session, students are required to read assigned materials for further understanding the contents of the session as well as preparing questions to ask the instructor in the class.

Since 7th and 8th sessions are student's driven class by presentations on the case study of industrial cluster, following Q&A, and discussion, students are required to collect materials and data for own presentation.

At the end of the first half of this course, students are required to write a short paper based on their presentation.

(Second half)

(9) Overview of Japan's DC: modalities, institutions, and actors

(10) Philosophy and uniqueness of Japan's DC rooted in Japan's MEG as a non-Western state (11) Direct Linkage with Japan's industrial development in 1970s and 2010s

War reparation and the commencement of ODA in 1950s

North-South Problem and ODA policy focused on natural resources in 1960s & 70s

Facilitation of foreign direct investment by Japanese firms in Southeast Asia in 1970s & 80s

Infrastructure System Export Strategy in 2010s

(12) Knowledge based cooperation drawing on Japan's experience in MEG

Policy support to transitional economies in 1990s

Knowledge-Co-creation Program and Development Studies Program of JICA

(13) Emerging actors of Japan's DC: small and medium-sized enterprises and local entities

(14) Socioeconomic challenges and the directions of Japan's DC

Students' driven class 1 : How should Japan utilize DC with emerging countries?

(15) Practical ways for emerging countries to realize win-win DC with partner countries

Students' driven class 2: How should your country utilize DC with partner countries to maximize its benefit for both parties.

【Out-of-Class Learning】

In preparation for each session, students are required to read assigned materials to understand the historical context of Japan's DC strategies as well as the basic concepts of globally practiced DC strategies.

In preparation for the 14th and 15th sessions, students are required to summarize their initial idea in a short

paper.

At the end of the course, students are required to write a short paper on a basic DC strategy for their country, synthesizing the knowledge gained and co-created during the sessions.

3. Grading :

(first half)

(1) Contribution in the class including presentation (20%).

(2) Take-home midterm exam (30%).

(second half)

(3) Contribution to discussion in the class (30%).

(4) Output of class: a brief paper on an idea about development cooperation (20%)

【Evaluation Criteria】

Student's achievement of the Course Goals is:

Outstanding: A, Superior: B, Satisfactory: C, Minimum acceptable: D, Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

(first half)

4-1: I will prepare the detailed PPP slides for every lecture and distribute it beforehand, which contents came from the texts and the articles mainly written in Japanese.

4-2: For further understanding this course, I recommend all the students to read Professor Kenichi Ohno's The History of Japanese Economic Development: Origins of Private Dynamism and Policy Competence, Routledge, 2018. This book is OPEN ACCESS. Please download this before the beginning of the course. <https://www.taylorfrancis.com/books/oa-mono/10.4324/9781315444048/history-japanese-economic-development-kenichi-ohno>

4-2 Regarding the studies on industrial cluster or industrial district, the below book will be helpful for further understanding.

Sonobe T., and Otsuka, K. (2006) Cluster-Based Industrial Development: An East Asian Model Palgrave and MacMillan.

Sonobe, T., and Otsuka, K. (2010) Cluster-Based Industrial Development: A Comparative Study of Asia and Africa, Springer.

Hashino, T., and Otsuka, K. (2016) Industrial Districts in History and the Developing World, Springer.

(second half)

4-1:

Participants are occasionally required to read a brief paper before the class, which will be noticed a week before

it.

4-2: Reference,

Shimomura, Y., Page, J., & Kato, H., Japan's Development Assistance: Foreign Aid and the Post-2015 Agenda, Palgrave Macmillan, 2015.

Fukuda-Parr, S., Lopes, C., Malik, K., Capacity for Development: New Solutions to Old Problems, Earthscan, 2002.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Knowledge of basic microeconomics is needed for understanding the course. However, no knowledge of Japanese history is required.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO5910E

講義名[日本語(英語)] / Class Name : Guided Self-Study I

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

PA students who have passed all the Basic Qualifying Exams and received approval from both the director and their advisors are eligible to enroll in this course under their advisors supervision. The advisor needs to provide topics, study instructions, and materials (if available) and set up meeting times/venues for 15 meetings in a semester.

[Related Diploma Policy (DP)]

The advisor needs to provide this information.

[Course Goals]

The advisor also needs to set up the goals and requirements for this course.

2. Course Outline :

The advisor needs to provide topics and materials (if available) for 15 meetings in a semester.

[Out-of-class Learning]

Students need to review meeting materials/guidance from their advisors

3. Grading :

It should be Pass or Fail in principle.

[Evaluation Criteria]

A student will pass if the student satisfies the study goals/requirements set by the advisor.

4. Textbooks and References (4-1:Required 4-2:Others)

The advisor needs to provide materials/textbooks (if available) to students enrolled in this course.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO5920E

講義名[日本語(英語)] / Class Name : Guided Self-Study II

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

PA students who have passed all the Basic Qualifying Exams and received approval from both the director and their advisors are eligible to enroll in this course under their advisors supervision.

[Related Diploma Policy (DP)]

The advisor needs to provide this information.

[Course Goals]

The advisor also needs to set up the goals and requirements for this course.

2. Course Outline :

The advisor needs to provide topics and materials (if available) for 15 meetings in a semester.

[Out-of-class Learning]

Students need to review meeting materials/guidance from their advisors

3. Grading :

It should be Pass or Fail in principle.

A student will pass if the student satisfies the study goals/requirements set by the advisor.

4. Textbooks and References (4-1:Required 4-2:Others)

The advisor needs to provide materials/textbooks (if available) to students enrolled in this course.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO6050E

講義名[日本語(英語)] / Class Name : Advanced Macroeconomics I

担当者 (フルネーム) / Course instructor (Full Name) : PORAPAKKARM Ponpoje/PORAPAKKARM Ponpoje

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/水 Wed/3 水 Wed/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This is the first course in the Ph.D. macroeconomics sequence. The course will emphasize the methods to solve dynamic macroeconomic problems. Specifically, we will learn about applied dynamic programming and its application on optimal growth models and dynamic stochastic general equilibrium models (DSGE). Two solution methods, namely value function iteration and log-linearization, will be repeatedly utilized to analyze this class of macro models. The class lectures, assigned problems, and the exam will focus on analytic solutions and the underlying economic intuition. Numerical solutions, which require computer programming skills, will be briefly discussed in class.

Throughout the course, we will assume a representative household/firm and frictionless markets. These assumptions will be relaxed in the later courses in this sequence.

[Course Goals]

- 1) Students are expected to be well equipped with mathematical tools commonly used in dynamic macroeconomic models.
- 2) In addition, students must be able to interpret and explain economic intuitions behind the results in each model studied in the course.

[Related Diploma Policy]

Policy Analysis Program (PA):

2. The ability to conduct quantitative analysis using the methods of modern economics.

Macroeconomic Policy Program (MEP1):

1. Having the expertise in basic economics necessary for the analysis, formulation and implementation of macroeconomic policies, the ability to apply it to macroeconomic policy design and evaluation practices

Macroeconomic Policy Program (MEP2):

1. Having the deep expertise in basic economics necessary for the analysis, formulation and implementation of macroeconomic policies, the ability to apply it to macroeconomic policy design and evaluation practices

2. Course Outline :

Week 1. Introduction to Dynamic Programming

- Week 2. Introduction to Dynamic Programming (continue)
- Week 3. Optimal Growth Model (social planner v.s. competitive equilibrium)
- Week 4. Solow Growth Model/Optimal Growth Model (solution methods: value function iteration, log-linearization, and method of undetermined coefficients)
- Week 5. Endogenous Growth Model: externality/human capital
- Week 6. DSGE Model (solution methods: value function iteration and log-linearization)
- Week 7. Some RBC Facts and applied DSGE Model: calibration exercises and its criticism, welfare cost of business cycle
- Week 8. Lucass Tree Model and Asset Pricing: equity premium puzzle (depending on the class progress)
- Final exam: TBA

[Out-of-class Learning]

There will be around 4 homework assignments. Each must be handed in at the beginning of class (the due date will be in the problem set sheet). A missing problem set or a late submission will be assigned zero credit. One problem set with the lowest score will be dropped out when calculating the courses total score.

Importantly, learning from the homework is as important as learning from the class lecture. So everyone should spend a good amount of time working of the assigned problems. Everyone is encouraged to have a group discussion but has to hand in your own answer sheets to get credit.

3. Grading :

Homework (20%)

Final exam (80%)

The final exam must be taken on the assigned schedule. A makeup final exam is allowed only in an extreme case, eg. serious accident or hospitalization.

[Evaluation Criteria]

Student's achievements of the Course Goal is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

There is no single textbook covering all topics in the course. So attending the lectures is very important. There is no required textbook. Summarized lecture note will be posted online. Listed below are recommended textbooks for students who plan to choose macroeconomics as a specialized field. Parts of these textbook will be used to as a reference or additional reading in each lecture. All textbooks are available to use in our library.

- David Dejong and Chetan oDave, Structural Macroeconometrics 2nd Eds, Priceton University Press. This textbook gives a comprehensive coverage on the econometric methods used in empirical macroeconomics and DSGE models. This is a must-have textbook for macroeconomists using DSGE models in their reseach.
- Jerome Adda and Russell Copper, Dynamic Economics: Quantitative methods and Application, MIT Press. The textbook covers numerical methods in macroeconomics. It is a nice complementary textbook to Dejong and Dave.
- Lars Ljungqvist and Thomas Sarget , Recursive Macroeconomic Theory 3rd Eds, MIT Press. This textbook is considered as a main textbook in many 1st year Ph.D. macroeconomics courses, possibly due to its wide coverage of important topics in modern (classical) macroeconomics.
- Thomas Sargent, Dynamic Macroeconomic Theory, Harvard University Press. Chapter 1 of the textbook provides a formal treatment of applied dynamic programing.

Additional reference articles will be mentioned in lecture note.

5. Software Used in Lectures (If not applicable, it can be left blank.) :
none
6. Auditing ; Allow or Not Allow
否 Not Allow
7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO6700E

講義名[日本語(英語)] / Class Name : Advanced Econometrics I

担当者 (フルネーム) / Course instructor (Full Name) : WIE Dainn/WIE Dainn

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/月 Mon/2 月 Mon/3

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Course Outline

Econometrics is a crucial methodology for economics and other social sciences. This course aims to introduce students to fundamental concepts of causal inference, Ordinary Least Squares (OLS) regression, relevant assumptions, regression diagnostics, and instrumental variable (IV) estimation. These tools are essential for analyzing data and connecting real-world observations to economic models. The course will also provide hands-on experience with STATA, a widely used statistical software in applied empirical economics. By the end of the course, students will develop the skills to quantify causal relationships between policy variables and economic outcomes, which is essential for their thesis research.

Related Diploma Policy [DP]

Policy Analysis Program [DP2]: The ability to conduct quantitative analysis using the methods of modern economics.

Policy Analysis Program [DP3]: Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists

Achievement Goals

Mastering Regression Analysis:

Students should understand OLS classical assumptions, internal and external validity threats and its implications in real life context.

Students should understand Instrumental Variable Estimation and its application in policy analysis setting.

Proficiency in STATA Software:

Students should demonstrate competence in conducting regression analysis, hypothesis testing, and generating graphical outputs using STATA commands.

2. Course Outline :

Course Contents

The main theme of the course is to delve into the understanding of Ordinary Least Squares (OLS) regression and its limitations. Through this understanding, students will explore the nuances of OLS and learn to critically

evaluate its applicability in empirical analysis. Additionally, the course will provide extensions in understanding by introducing Instrumental Variable Estimation.

Week

- 1 : Review of Statistics Hypothesis Testing
- 2 : Bivariate OLS
- 3 : Multiple OLS and Violation of Classical Assumptions
- 4 : Nonlinear Regression
- 5 : Regression Assessment
- 6 : Instrument Variable Estimation
- 7 : Heterogenous Impacts
- 8 : Application and Review Session

Out of Class Learning for Each Class

Students are expected to read the lecture notes and relevant chapters in the textbook prior to each class to enhance their understanding of the material covered. Additionally, after class, they are encouraged to review the course materials and complete problem sets using STATA regularly to cultivate their analytical skills.

3. Grading :

There will be three assignments (20% each) and one exam (40%). The overall grade will be determined on a curve and will follow Grips assessment policy.

Problem sets and data will be posted on the course web page. You will be required to use STATA. Please submit your assignment in class on designated due date.

Please append your STATA "log" files and "do" files to your assignments.

A: Students demonstrate a high level of understanding in written form, regarding estimators, their assumptions and hypothesis testing.

B: Students exhibit a solid understanding of fundamental concepts discussed in class, and should be able to interpret regressions accordingly.

C: Students demonstrate a basic understanding of fundamental concepts in econometrics.

D: Students achieved the goal at a minimum acceptable level.

E: This category encompasses students who do not meet the criteria outlined in the previous descriptions.

4. Textbooks and References (4-1:Required 4-2:Others)

Stock J. H., and Watson, M.W., Introduction to Econometrics, Addison-Wesley, any Edition.

Lecture notes on the course web site

5. Software Used in Lectures (If not applicable, it can be left blank.) :

Stata.

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

This course is designated as a DS-related course.

Schedule Table, Fall 2024

Date	Topic	Problem Set		TA Session
		Posting	Due date	
Oct 7	Statistics & Hypothesis Testing	PS #1		
Oct 14	Bivariate OLS			PS#1 support +STATA
Oct 21	Multiple OLS		PS #1	
Oct 28	Nonlinear Regression	PS #2		PS#2 support
Nov 4	Regression Assessment		PS #2	
Nov 11	Instrument Variable	PS #3		PS#3 support
Nov 18	Heterogeneous Impacts		PS#3	Q&A Session
Nov 25	Review and Exam			

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO6820E

講義名[日本語(英語)] / Class Name : Economics of Health and Education

担当者 (フルネーム) / Course instructor (Full Name) : 山内 慎子/YAMAUCHI Chikako

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/水 Wed/2 木 Thu/2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Description

In this course, students will learn the basic skills to analyze issues related to health and education using the applied microeconomics framework. Students are assumed to have acquired basic understanding of the PhD level microeconomics and econometrics.

Students are also required to present an academic paper and criticize another paper at least once. Master's students can present in a group of up to two students, and PhD students are required to present alone. After the presentation, students are also required to submit a report on the presented paper following "the guideline for reports". It should be within three pages with 12 font, single-spacing, and reasonable margins. Master's students can work on this report together, but each student needs to submit his/her own report.

In the discussion class, first a presenter or presenters present a paper using power point slides (about 20 minutes). Next, a discussant discusses comments/criticism (no need to summarize the paper, 5 minutes). The presenter(s) then address the comments (10 minutes). After that, all the students participate in a general discussion of the paper (10 minutes). This format will allow us to have two presentations in one class. Alternatively, if the number of students is small, we can have one presentation in one class. This discussion class will take place towards the end of the course, before the final exam. You can find the papers to be presented in the list below.

Goals

At the completion of this course, students will be able to:

Understand the basic theoretical frameworks such as the household production model, health production model, and collective models.

Discuss recent policy issues such as low take-up of favorable human capital investment and factors influencing the investment behavior

Read and roughly understand empirical articles investigating issues related to human capital investment by households

Related Diploma Policy

GRIPS Global Governance Program (G-cube):① ④

2. Course Outline :

Preparation and review

Students are expected to read the lecture notes assigned in the class schedule before each lecture. They are also recommended to read the assigned reading materials, specified in the "outline and reading materials" below.

Class Schedule

Week

Date

Topic / lecture notes

1

Oct. 9

Introduction

2

Oct. 10

Theoretical Frameworks 1 (Unitary Models)

3

Oct. 16

Theoretical Frameworks 1 & 2

4

Oct. 17

Theoretical Frameworks 2 (Collective Models)

5

Oct. 23

More general discussion of determinants of health and policy issues

6

Oct. 24

More general discussion of determinants of health and policy issues, Recent issues on

demand for health investment behavior

7

Oct. 30

Recent issues on demand for health investment behavior

8

Oct. 31

Investment in clean hands

9

Nov. 6

Access to health facilities

10

Nov. 7

Returns to education

Nov. 13

Cancelled

11

Make-up class (TBA)

Returns to education

12

Nov. 14

Student presentation 1

13

Nov. 20
Student presentation 2

14
Nov. 21
Student presentation 3

15
Nov. 27
Student presentation 4

16
Nov. 28
Final exam

Outline & reading materials

Introduction W1

Alain de Janvry and Elisabeth Sadoulet (2015) Development Economics: theory and Practice, Routledge, Ch.17 "Human capital"

Dupas, Pascaline, 2011, "health behavior in developing countries", Annual Review of Economics, 3, September.

Theoretical Frameworks 1 (Unitary Models) W2,3

Gary S. Becker, A Theory of the Allocation of Time, The Economic Journal, Vol. 75, No. 299 (Sep., 1965), pp. 493-517

Michael Grossman, On the Concept of Health Capital and the Demand for Health, Journal of Political Economy, Vol. 80, No. 2 (Mar. - Apr., 1972), pp. 223-255

Mark R. Rosenzweig and T. Paul Schultz, Market Opportunities, Genetic Endowments, and Intrafamily Resource Distribution: Child Survival in Rural India The American Economic Review, Sep., 1982, Vol. 72, No. 4 (Sep., 1982), pp. 803-815

Jere R. Behrman, Intrahousehold Allocation of Nutrients in Rural India: Are Boys Favored? Do

Parents Exhibit Inequality Aversion? Oxford Economic Papers , Mar., 1988, New Series, Vol. 40, No. 1 (Mar., 1988), pp.32-54

Mwab, Germano, 2008, Health Economics for low-income countries, Handbook of Development Economics, Volume 4, 2007, Chapter 53, Pages 3305-3374.

Theoretical Frameworks 2 (Collective Models) W3,4

BEHRMAN, JERE R., POLLAK, ROBERT, and TAUBMAN, PAUL, 1982. Parental Preferences and Provision for Progeny. Journal of Political Economy 90:1 (February), 52-73.

McElroy and Horney, "Nash-bargained household decisions: toward a generalization of the theory of demand" International Economic Review, 22(2).

Thomas, Duncan, 1990 "Intra-household resource allocation: an inferential approach" JHR 25(4) 635-664.

Browning and Chiappori, 1998 "Efficient intra-household allocations; a general characterization and empirical tests," Econometrica, 66(6) 1241-78.

More general discussion of determinants of health and policy issues - W5, 6

Alain de Janvry and Elisabeth Sadoulet (2015) Development Economics: theory and Practice, Routledge, Ch.17 "Human capital," Health sections.

Recent issues on demand for health investment behavior W6,7

Dupas, Pascaline, 2011, "health behavior in developing countries", Annual Review of Economics, 3, September.

Investment in clean hands - W8

Kremer and Zwane, 2007, Cost-Effective Prevention of Diarrheal Diseases: A Critical Review

Kesler and Zhang, Behavioral Economics and Health in Oxford Textbook of Public Health 6th ed. Sec 6.7, edited by Roger Detels, Martin Gulliford, Quarraisha Abdool Karim, and Chorh Chuan Tan

Bennett et al., 2018, LEARNING, HYGIENE AND TRADITIONAL MEDICINE, Economic Record.

Tidwell, et al., 2019, Effect of Two Complementary Mass-Scale Media Interventions on Handwashing with Soap among Mothers, Journal of Health Communication.

Access to health facilities W9

Buchmueller, T. C., Jacobson, M., and Wold, C. (2006). How far to the hospital?: The effect of hospital closures on access to care. *Journal of Health Economics*, 25(4):740 -761.

Elizabeth Ty Wilde, *Health Economics*, Volume 22, Issue 7, pages 790806, July 2013, DO EMERGENCY MEDICAL SYSTEM RESPONSE TIMES MATTER FOR HEALTH OUTCOMES?

Lu, Y. and Slusky, D. J. G. (2016). The impact of womens health clinic closures on preventive care. *American Economic Journal: Applied Economics*, 8(3):100124.

Avdic, D. (2016). Improving efficiency or impairing access? health care consolidation and quality of care: Evidence from emergency hospital closures in Sweden. *Journal of Health Economics*, 48:44-60.

Rosenzweig, M. R. and Wolpin, K. I. (1982). Governmental interventions and household behavior in a developing country: Anticipating the unanticipated consequences of social programs. *Journal of Development Economics*, 10(2):209-225.

Manang and Yamauchi, 2020, *Economic Development and Cultural Change*, The impact of access to health facilities on maternal care use, travel patterns and health status: Evidence from longitudinal data from Uganda, <https://doi.org/10.1086/702794>

Returns to education W10, 11

David Card, 1999, THE CAUSAL EFFECT OF EDUCATION ON EARNINGS, in *Handbook of Labor Economics*, Volume 3, Edited by O. Ashenfelter and D. Card, Chapter 30.

Duflo, E. (2001). Schooling and Labor Market Consequences of School Construction in Indonesia: Evidence From an Unusual Policy Experiment. *American Economic Review*, 91(4), 795813.

Mazumder, B. (2008). Does Education Improve Health? A Reexamination of the Evidence from Compulsory Schooling Laws. *Economic Perspectives*, 32(2), 216.

Stephens, M. J., & Yang, D.-Y. (2014). Compulsory Education and the Benefits of Schooling. *The American Economic Review*, 104(6), 17771792.

Fee abolition

Osili, U. O., & Long, B. T. (2008). Does Female Schooling Reduce Fertility? Evidence from Nigeria. *Journal of Development Economics*, 87(1), 5775.

Keats, A. (2018). Women's Schooling, Fertility, and Child Health Outcomes: Evidence From Uganda's Free Primary Education Program. *Journal of Development Economics*, 135, 142159

Entrance exam threshold

Ozier, O. (2018). The Impact of Secondary Schooling in Kenya: A Regression Discontinuity Analysis. *Journal of Human Resources*, 53(1), 157188.Keats

Week 12: Student presentation 1
Week 13: Student presentation 2
Week 14: Student presentation 3
Week 15: Student presentation 4
Week 16: Final exam

Examples of papers to be presented by students (to be added more if necessary)

Dammert, et al., 2014, Preventing dengue through mobile phones: Evidence from a field experiment in Peru, *Journal of Health Economics*

Jalan and Somanathan, 2008, The importance of being informed: Experimental evidence on demand for environmental quality, *JDE Volume 87, Issue 1, August 2008, Pages 14-28.*

Madajewics, et al., 2007, Can information alone change behavior? Response to arsenic contamination of groundwater in Bangladesh, *Journal of Development Economics.*

Jensen and Oster, 2009, THE POWER OF TV: CABLE TELEVISION AND WOMENS STATUS IN INDIA, *Quarterly Journal of Economics,*

Osili, U. O., & Long, B. T. (2008). Does Female Schooling Reduce Fertility? Evidence from Nigeria. *Journal of Development Economics, 87(1), 5775.*

Keats, A. (2018). Women's Schooling, Fertility, and Child Health Outcomes: Evidence From Uganda's Free Primary Education Program. *Journal of Development Economics, 135, 142159*

Ozier, O. (2018). The Impact of Secondary Schooling in Kenya: A Regression Discontinuity Analysis. *Journal of Human Resources, 53(1), 157188.*

Zachary Wagner, John Bosco Asiimwe, David I. Levine, 2020, When financial incentives backfire: Evidence from a community healthworker experiment in Uganda, *JDE 144, 102437*

3. Grading :

Evaluation

In-class presentation 20%

In-class discussion 5%

Report 25%

Final exam 50%

Grades

A: Exhibit an outstanding level of understanding of the theoretical frameworks, policy issues and empirical methodology.

B: Exhibit a good level of understanding of the theoretical frameworks, policy issues and empirical methodology.

C: Exhibit a basic level of understanding of the theoretical frameworks, policy issues and empirical methodology.

D: Exhibit a minimum level of understanding of the theoretical frameworks, policy issues and empirical methodology.

E: Fail to exhibit a minimum level of understanding of the theoretical frameworks, policy issues and empirical methodology.

4. Textbooks and References (4-1:Required 4-2:Others)

Textbooks

There is no specific textbook for the entire course. Relevant reading materials are assigned for each lecture.

For those who would like to review the basics of the optimization theory, the following might be useful:

Microeconomic Theory: Basic Principles and Extensions

Walter Nicholson and Christopher Snyder, 2016

Ch.2 Mathematics for Microeconomics

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7010E

講義名[日本語(英語)] / Class Name : Graduate Seminar I

担当者 (フルネーム) / Course instructor (Full Name) : LITSCHIG Stephan, 山崎 晃生, 泉 佑太郎, 後藤 潤/LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro and GOTO Jun

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

This is a required seminar course for Policy Analysis students who passed at least one subject of the Basic Qualifying Exam (Microeconomics, Macroeconomics, and/or Econometrics).

The purpose of this course is to help prepare Ph.D. students to conduct economics research for your dissertations. We will do this by inviting outside speakers to describe their own research, in order to provide you with a framework for developing and presenting your own research ideas. You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Related Diploma Policy]

Policy Analysis Program (PA) Diploma Policy³

Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists.

2. Course Outline :

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Out-of-class Learning]

Most your time studying for this course will be out-of-class. First, you need to find a broad research area you are interested in and then identify a specific research question. You may have to learn new methodologies in order to answer that question. Most importantly, you need to be explicit about why this question is important and how your study will contribute to existing literature.

3. Grading :

The course will be graded on a pass/fail basis. The requirements for passing the course include:

(1) Attendance: You need to attend at least 6 seminars with external speakers and all work-in-progress presentations by your fellow students.

(2) Work-in-progress presentation: You need to give a short presentation followed by comments and discussion (total about 30 minutes).

(3) External speaker proposal: You need to propose at least two speakers you would like to have in the next term.

(4) Paper Assignment: Students enrolled in Graduate Seminar I have a paper assignment. As a first step, each student should meet with the Program Director to agree a title and research question for the paper in the early weeks of the term. The deadline for submission (to Program Coordinator) will be the first Monday of August for students taking the Graduate Seminar I in Spring and the first Monday of February for students taking the Graduate Seminar I in the Fall term. (This requirement does not apply to Graduate Seminar III students.) There is no formal word limit to the policy paper, but it should normally be 4-5,000 words or 10-15 pages of A4. This assignment is to provide you with a goal to keep you moving along toward finding a dissertation topic. Your dissertation topic may not yet be well developed, and in this case you can focus more on background and literature review in your paper. If your topic is more developed, you may wish to focus more on your methodology and even some preliminary results. This paper may be used as a basis for writing your dissertation. For those of you who do not yet hold an MA degree from GRIPS, this paper will also serve as your policy proposal paper for the MA degree.

Originality. The policy paper should not be a piece of work that you have previously submitted at GRIPS or elsewhere for assessment. However you are welcome to build on assignments and on the research proposal that you submitted to GRIPS as part of your admissions application. As usual with written work, you should be careful to avoid plagiarism. The policy paper may be put through plagiarism detection software as part of the assessment process.

Assessment. The policy paper is assessed as a pass or a fail. It will usually be graded by your potential advisor, who will pass a report to the PA program director. If there are significant problems with the paper, you may be asked to redraft some or all sections. The most common areas of weakness are:

Vague or overly general research question.

Failure to have considered the existing literature properly.

Wishful thinking on data sources, particularly when new data collection might be involved or where the relevant data set is unobtainable without payment or the time series is short.

Basic guideline. A paper should include the following:

A clear research question.

Motivation for the relevance, novelty and importance of the research question.

A thorough literature review, in order to show how your proposal will extend the existing body of research.

A detailed discussion of data sources. Where the data is not available you will also need to set out how you will obtain it, the time it will take to do fieldwork and how the work will be funded.

A discussion of your empirical strategy (e.g. issues of identification, the model you will use for estimation or calibration etc.) Note that it is more important that you discuss important challenges rather than the details of a specific model.

A discussion of potential problems and extensions.

Cited references on a separate page at the end. You should cite in one of the standard styles used in economic journals, such as the Chicago or Harvard style

4. Textbooks and References (4-1:Required 4-2:Others)

None.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7020E

講義名[日本語(英語)] / Class Name : Graduate Seminar II

担当者 (フルネーム) / Course instructor (Full Name) : LITSCHIG Stephan, 山崎 晃生, 泉 佑太朗, 後藤 潤/LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro and GOTO Jun

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

This is a required seminar course for Policy Analysis students who passed at least one subject of the Basic Qualifying Exam (Microeconomics, Macroeconomics, and/or Econometrics). Other students, such as Ph.D. students in the Public Policy program, or Policy Analysis students who have not yet passed a Qualifying Exam, are welcome to attend, but such students will not receive credit.

The purpose of this course is to help prepare Ph.D. students to conduct economics research for your dissertations. We will do this by inviting outside speakers to describe their own research, by discussing research methods, and by having students present their own research progress.

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Related Diploma Policy]

Policy Analysis Program (PA) Diploma Policy³

Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists.

2. Course Outline :

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Out-of-class Learning]

Most your time studying for this course will be out-of-class. First, you need to find a broad research area you are interested in and then identify a specific research question. You may have to learn new methodologies in order to answer that question. Most importantly, you need to be explicit about why this question is important and how your study will contribute to existing literature.

3. Grading :

The course will be graded on a pass/fail basis. The requirements for passing the course include:

(1) Attendance: You need to attend at least 6 seminars with external speakers and all work-in-progress presentations by your fellow students.

(2) Work-in-progress presentation: You need to give a short presentation followed by comments and discussion (total about 30 minutes).

(3) External speaker proposal: You need to propose at least two speakers you would like to have in the next term.

(4) Comments/discussion of external presentation: You need to give comments during or after a presentation by an external speaker of your choice.

4. Textbooks and References (4-1:Required 4-2:Others)

None.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7030E

講義名[日本語(英語)] / Class Name : Graduate Seminar III

担当者 (フルネーム) / Course instructor (Full Name) : LITSCHIG Stephan, 山崎 晃生, 泉 佑太朗, 後藤 潤/LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro and GOTO Jun

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

This is a required seminar course for Policy Analysis students who passed at least one subject of the Basic Qualifying Exam (Microeconomics, Macroeconomics, and/or Econometrics). Other students, such as Ph.D. students in the Public Policy program, or Policy Analysis students who have not yet passed a Qualifying Exam, are welcome to attend.

[Course Goals]

Students will learn how to

- 1) conduct their own research for their dissertation,
- 2) critically and constructively assess research presented by external speakers and fellow students.

[Related Diploma Policy]

Policy Analysis Program (PA) Diploma Policy³

Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists.

2. Course Outline :

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Out-of-class Learning]

Most your time studying for this course will be out-of-class. First, you need to find a broad research area you are interested in and then identify a specific research question. You may have to learn new methodologies in order to answer that question. Most importantly, you need to be explicit about why this question is important and how your study will contribute to existing literature.

3. Grading :

The course will be graded on a pass/fail basis. The requirements for passing the course include:

- (1) Attendance: You need to attend at least 6 seminars with external speakers and all work-in-progress presentations by your fellow students.

(2) Work-in-progress presentation: You need to give a short presentation followed by comments and discussion (total about 30 minutes).

(3) External speaker proposal: You need to propose at least two speakers you would like to have in the next term.

(4) Comments/discussion of external presentation: You need to give comments during or after a presentation by an external speaker of your choice.

4. Textbooks and References (4-1:Required 4-2:Others)

None.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7040E

講義名[日本語(英語)] / Class Name : Graduate Seminar IV

担当者 (フルネーム) / Course instructor (Full Name) : LITSCHIG Stephan, 山崎 晃生, 泉 佑太朗, 後藤 潤/LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro and GOTO Jun

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

This is an elective course following the same format as the required Graduate Seminars I, II and III..

[Course Goals]

Students will learn how to

- 1) conduct their own research for their dissertation,
- 2) critically and constructively assess research presented by external speakers and fellow students.

[Related Diploma Policy]

Policy Analysis Program (PA) Diploma Policy3

Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists.

2. Course Outline :

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Out-of-class Learning]

Most your time studying for this course will be out-of-class. First, you need to find a broad research area you are interested in and then identify a specific research question. You may have to learn new methodologies in order to answer that question. Most importantly, you need to be explicit about why this question is important and how your study will contribute to existing literature.

3. Grading :

The course will be graded on a pass/fail basis. The requirements for passing the course include:

- (1) Attendance: You need to attend at least 6 seminars with external speakers and all work-in-progress presentations by your fellow students.
- (2) Work-in-progress presentation: You need to give a short presentation followed by comments and discussion (total about 30 minutes).

(3) External speaker proposal: You need to propose at least two speakers you would like to have in the next term.

(4) Comments/discussion of external presentation: You need to give comments during or after a presentation by an external speaker of your choice.

4. Textbooks and References (4-1:Required 4-2:Others)

None.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7050E

講義名[日本語(英語)] / Class Name : Graduate Seminar V

担当者 (フルネーム) / Course instructor (Full Name) : LITSCHIG Stephan, 山崎 晃生, 泉 佑太朗, 後藤 潤/LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro and GOTO Jun

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

This is an elective course following the same format as the required Graduate Seminars I, II and III..

[Course Goals]

Students will learn how to

- 1) conduct their own research for their dissertation,
- 2) critically and constructively assess research presented by external speakers and fellow students.

[Related Diploma Policy]

Policy Analysis Program (PA) Diploma Policy3

Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists.

2. Course Outline :

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Out-of-class Learning]

Most your time studying for this course will be out-of-class. First, you need to find a broad research area you are interested in and then identify a specific research question. You may have to learn new methodologies in order to answer that question. Most importantly, you need to be explicit about why this question is important and how your study will contribute to existing literature.

3. Grading :

The course will be graded on a pass/fail basis. The requirements for passing the course include:

- (1) Attendance: You need to attend at least 6 seminars with external speakers and all work-in-progress presentations by your fellow students.
- (2) Work-in-progress presentation: You need to give a short presentation followed by comments and discussion (total about 30 minutes).

(3) External speaker proposal: You need to propose at least two speakers you would like to have in the next term.

(4) Comments/discussion of external presentation: You need to give comments during or after a presentation by an external speaker of your choice.

4. Textbooks and References (4-1:Required 4-2:Others)

None.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7060E

講義名[日本語(英語)] / Class Name : Graduate Seminar VI

担当者 (フルネーム) / Course instructor (Full Name) : LITSCHIG Stephan, 山崎 晃生, 泉 佑太朗, 後藤 潤/LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro and GOTO Jun

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

This is an elective course following the same format as the required Graduate Seminars I, II and III..

[Course Goals]

Students will learn how to

- 1) conduct their own research for their dissertation,
- 2) critically and constructively assess research presented by external speakers and fellow students.

[Related Diploma Policy]

Policy Analysis Program (PA) Diploma Policy3

Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists.

2. Course Outline :

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Out-of-class Learning]

Most your time studying for this course will be out-of-class. First, you need to find a broad research area you are interested in and then identify a specific research question. You may have to learn new methodologies in order to answer that question. Most importantly, you need to be explicit about why this question is important and how your study will contribute to existing literature.

3. Grading :

The course will be graded on a pass/fail basis. The requirements for passing the course include:

- (1) Attendance: You need to attend at least 6 seminars with external speakers and all work-in-progress presentations by your fellow students.
- (2) Work-in-progress presentation: You need to give a short presentation followed by comments and discussion (total about 30 minutes).

(3) External speaker proposal: You need to propose at least two speakers you would like to have in the next term.

(4) Comments/discussion of external presentation: You need to give comments during or after a presentation by an external speaker of your choice.

4. Textbooks and References (4-1:Required 4-2:Others)

None.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7070E

講義名[日本語(英語)] / Class Name : Graduate Seminar VII

担当者 (フルネーム) / Course instructor (Full Name) : LITSCHIG Stephan, 山崎 晃生, 泉 佑太朗, 後藤 潤/LITSCHIG Stephan, YAMAZAKI Akio, IZUMI Yutaro and GOTO Jun

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

This is an elective course following the same format as the required Graduate Seminars I, II and III..

[Course Goals]

Students will learn how to

- 1) conduct their own research for their dissertation,
- 2) critically and constructively assess research presented by external speakers and fellow students.

[Related Diploma Policy]

Policy Analysis Program (PA) Diploma Policy3

Critical evaluation. The ability to summarize and critically assess frontier research produced by professional economists and other social scientists.

2. Course Outline :

You can keep posted on the most update schedule of the classes / seminars by visiting the class webpage. We will also provide you with advanced notice by email about our meeting days.

[Out-of-class Learning]

Most your time studying for this course will be out-of-class. First, you need to find a broad research area you are interested in and then identify a specific research question. You may have to learn new methodologies in order to answer that question. Most importantly, you need to be explicit about why this question is important and how your study will contribute to existing literature.

3. Grading :

The course will be graded on a pass/fail basis. The requirements for passing the course include:

- (1) Attendance: You need to attend at least 6 seminars with external speakers and all work-in-progress presentations by your fellow students.
- (2) Work-in-progress presentation: You need to give a short presentation followed by comments and discussion (total about 30 minutes).

(3) External speaker proposal: You need to propose at least two speakers you would like to have in the next term.

(4) Comments/discussion of external presentation: You need to give comments during or after a presentation by an external speaker of your choice.

4. Textbooks and References (4-1:Required 4-2:Others)

None.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7721EA

講義名[日本語(英語)] / Class Name : Introduction to Applied Econometrics (Advanced)

担当者 (フルネーム) / Course instructor (Full Name) : WIE Dainn/WIE Dainn

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/3

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

1 Course Outline

Econometrics is the useful methodology of economics and other social studies. This course aims to introduce students to multiple regression and related methods to analyze data and connect data from the real world to economic models. We start by learning linear regression model which is widely used tool for economists. Additionally, we will study methods for panel data analysis, instrumental variables regression, and program evaluation. This course focuses on developing practical methodology and applying them to real data using STATA. The mathematics of econometrics will be introduced only as needed and will not be a central focus. Throughout the course, students will develop the ability to quantify causal relationship between policy variables and economic outcomes-knowledge essential for the EBPM (Evidence-Based Policy Making).

Related Diploma Policy [DP]

Science, Technology and Innovation Policy Program (STI) Doctoral[DP2]: Have a wide range of knowledge on public policies, and the ability to understand science, technology, and innovation policies within this context and analyze them from a multifaceted perspective

2 Achievement Goals

Mastering Regression Analysis:

Students should understand how to apply various models to estimate unbiased estimates of policy impacts.

Students should understand OLS classical assumptions, internal and external validity threats and its implications in real life context.

Students should understand Panel and Instrumental Variable Estimation and its application in policy analysis setting.

Proficiency in STATA Software:

Students should gain practical skills in using STATA software for data management, analysis, and visualization.

Students should demonstrate competence in conducting regression analysis, hypothesis testing, and generating graphical outputs using STATA commands.

2. Course Outline :

Course Contents

The main theme of the course is to delve into the understanding of Ordinary Least Squares (OLS) regression and its limitations. Through this understanding, students will explore the nuances of OLS and learn to critically evaluate its applicability in empirical analysis. Additionally, the course will provide extensions in understanding by introducing techniques such as Panel Data Analysis and Instrumental Variable Estimation.

Week

- 1 : Review of Probability Theory and Overview
- 2 : Review of Statistics and Hypothesis Testing
- 3 : Linear Regression + STATA Session
- 4 : Violation of Classical Assumptions
- 5 : Multiple Regression
- 6 : Nonlinear Regression
- 7 : Regression Assessment
- 8 : Interpretation of Regression Tables
- 9 : Panel Data 1
- 10 : Panel Data 2
- 11 : Instrumental Variable 1
- 12 : Instrumental Variable 2
- 13 : Difference-in-differences 1
- 14 : Difference-in-differences 2
- 15 : Various Examples and Applications

Out of Class Learning for Each Class:

Students are expected to read the assigned chapters in the textbook prior to each class to enhance their understanding of the material covered. Additionally, after class, they are encouraged to review the course materials and complete problem sets using STATA regularly to cultivate their analytical skills.

Week	Date	Topic	Problem Set		
			Posting	Due date	TA Session
1	Oct 9	Probability Theory	PS #1		
2	Oct 16	Statistics+Hypothesis+STATA			PS#1 support +STATA
3	Oct 23	OLS			
4	Oct 30	Multiple Regression+Joint	PS #2	PS #1	

		hypothesis testing			
5	Nov 6	Violation of Classical Assumptions			
6	Nov 13	Non-linear			PS#2 support
7	Nov 20	Internal Validity Threat		PS#2	Past exam review+QA
8	Nov 27	Review and Application			
9	Dec 4	Panel Data (1)	PS #3		
10	Dec 11	Panel Data (2)			PS#3 support
11	Dec 18	Instrumental Variable (1)		PS#3	
12	Dec 25	Instrumental Variable (2)	PS\$4		
13	Jan 8	Difference-in-Differences (1)			PS#4 support
14	Jan 15	Difference-in-Differences (2)		PS#4	
15	Jan 22	Application Examples			Past exam review+QA
	Jan 29	Final Exam			

3. Grading :

There will be four assignments (10% each) and two exams (30% each). The overall grade will be determined on a curve and will follow Grips assessment policy.

Assignments

Problem sets and data will be posted on the course web page. You will be required to use STATA. Please submit your assignment in class on designated due date. Students are welcome to work in groups on their problem sets, but each student must write up his or her answers separately. The maximum group size is 3. Please list the names of those with whom you worked on your assignments. Please append your STATA "log" files and "do" files to your assignments.

A: Students demonstrate a high level of understanding in written form, regarding estimators and their assumptions. Students should show how to apply knowledge learned in class to interpret and discuss regression tables in actual policy analysis context.

B: Students exhibit a solid understanding of fundamental concepts discussed in class, and should be able to interpret regression tables accordingly.

C: Students demonstrate a basic understanding of fundamental concepts in introduction to applied econometrics class.

D: Students achieved the goal at a minimum acceptable level.

E: This category encompasses students who do not meet the criteria outlined in the previous descriptions.

4. Textbooks and References (4-1:Required 4-2:Others)

Stock J. H., and Watson, M.W., Introduction to Econometrics, Addison-Wesley, any Edition.

Lecture Notes (PPT) on the course web site

Useful Online Resources for STATA:

STATA Website: <http://www.stata.com/>

UCLA Institute for Digital Research & Education

<https://stats.idre.ucla.edu/stata/>

5. Software Used in Lectures (If not applicable, it can be left blank.) :

STATA will be used in classes.

6. Auditing ; Allow or Not Allow

☐ Allow

7. Note :

Future Recommendations

1. Future Readings

You may find it useful to read other textbooks after you take this course. These textbooks will not be used in the course, but provide ample treatments of topics we cover in class:

1) Wooldridge, J.M., Introductory Econometrics, Southwestern College Publishing.

2) Angrist, J., and Pischke, J.S., Mostly Harmless Econometrics: An Empiricist's Companion, Princeton University Press.

2. Future Courses (Strongly recommended)

1) Selected Topics in Policy Studies (Introduction to Policy Evaluation) (Winter): for someone who wants to further develop their micro-econometrics knowledge

2) Applied Time Series Analysis for Macroeconomics (Winter): for someone who wants to further develop their macro-econometrics knowledge.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO7721EB

講義名[日本語(英語)] / Class Name : Introduction to Applied Econometrics (Advanced)

担当者 (フルネーム) / Course instructor (Full Name) : 泉 佑太朗/IZUMI Yutaro

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Econometrics is a tool commonly used in economics and other social sciences to analyze real-world data. This course introduces basic econometric techniques to equip students with the knowledge and practical skills necessary to comprehend empirical research papers and to plan and execute their own empirical research.

[Learning Objectives]

Understand the basic concepts in econometrics

Use statistical software (Stata) to conduct original empirical research

Critically evaluate empirical research papers with econometric analysis

2. Course Outline :

Review of probability theory and statistics

Introduction to Stata

Randomized experiments

Regression

Panel data methods

Difference-in-differences

Instrumental variables

(Subject to change)

[Out-of-class study]

Students are expected to review the lecture materials after each session and also work on the problem sets.

3. Grading :

Problem sets (30%)

Midterm exam (30%)

Final exam (40%)

The overall grade will be determined on a curve and will follow the GRIPS assessment policy.

The problem sets include theoretical questions and data analysis questions using Stata.

[Grading Criteria]

A : Achieved the goal at a high level

B : Achieved the goal at a satisfactory level

C : Achieved the goal at a generally acceptable level

D : Achieved the goal at a minimum acceptable level

E : Did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

4.1

Stock, J.H. and M.W. Watson, Introduction to Econometrics, Pearson Education

4.2

Angrist, J.D. and J.S. Pischke, Mastering Metrics: The Path from Cause to Effect, Princeton University Press

Wooldridge, J.M., Introductory Econometrics, Southwestern College Publishing.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

In this course, Stata will be used as a primary statistical software tool. A brief tutorial session on Stata will be conducted to familiarize students with its functionalities. For students enrolled at GRIPS, access to Stata is provided at no cost.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : ECO8001E

講義名[日本語(英語)] / Class Name : Mathematics for Economic Analysis (Advanced)

担当者 (フルネーム) / Course instructor (Full Name) : MUNRO Alistair/MUNRO Alistair

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This is a course in mathematics for Economics students. The main aim is to provide a refreshing and refinement of knowledge of calculus, matrices and optimization to students seeking to upgrade their skills. It is particularly useful for PhD students who are looking for specific training in common mathematical techniques. The main learning goals for students are

to end up with the mathematical skills necessary to navigate their courses in Economics and related fields at GRIPS.

to have specific understanding in calculus, constrained optimization, matrices and related concepts

Related Diploma Policy

Policy Analysis (DP 2)

2. Course Outline :

The topics, level and schedule may change, depending on your understanding and interests. Except where stated, all the reading is from the required textbook. Some of the material may be presented in a different order or may be omitted if we run out of time. Some topics will occupy more than 1 lecture and the order may vary from that shown below

Out of class learning (approximately 45 hours) consists of reading the textbook, reviewing lecture notes, doing practice and assessed problem sets.

Lecture topics.

Introduction. Partial differentiation

Unconstrained Optimization

Series, graphing functions and approximations

Constrained optimization; Kuhn Tucker

Matrices I

Definite Matrices and second order conditions

The language of topology

Matrices II. Eigenvalues and eigenvectors

Differential Equations

Optimal Control Theory

Review and Final Exam (Weight: 40%)

3. Grading :

Take home problems sets (3): 60% Final Exam: 40%.

The final exam is a standard 80 minute exam which will cover all material from the course.

Grading Evaluation Criteria:

A: Demonstrate a mastery of learning goals 1 and 2.

B: Demonstrate achievement learning goals 1 and 2.

C: Demonstrate a satisfactory achievement of learning goals 1 and 2, with some significant weaknesses in understanding for some aspects of the course material..

D: Demonstrate elements of achievement of learning goals 1 and 2, with some significant weaknesses in understanding for some aspects of the course material..

E: Unacceptable achievement of learning goals 1 and 2, with major weaknesses in understanding of key aspects of the course material..

4. Textbooks and References (4-1:Required 4-2:Others)

Simon & Blume: Mathematics for Economists, Norton. 2012

Chiang and Wainwright, Fundamental Methods of Mathematical Economics, McGraw-Hill.

There are many other good texts that cover mathematics for economics. These are suitable provided they cover Kuhn-Tucker and other aspects of constrained optimization. I strongly recommend that you buy at least one text.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

Microsoft office for lecture notes and slides etc.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Students are not allowed to use ChatGPT for assignments unless specifically allowed to. Materials for the course will be posted in Teams.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GEN5020E

講義名[日本語(英語)] / Class Name : The World and the SDGs

担当者 (フルネーム) / Course instructor (Full Name) : 工藤 年博 他/KUDO Toshihiro, et al.

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/金 Fri/1

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

The Sustainable Development Goals (SDGs), adopted by the United Nations General Assembly in September 2015, present challenges that we must all face, both globally and locally. GRIPS students are expected to take on leadership roles in their respective countries and careers and to have a good understanding of the urgent yet complex nature of the challenges that the SDGs present.

The SDGs consist of 17 goals. They include No Poverty, Zero Hunger, Good Health and Well-being, Quality Education, Gender Equality, Clean Water and Sanitation, Affordable and Clean Energy, Decent Work and Economic Growth, Industry, Innovation and Infrastructure, Reduced Inequalities, Sustainable Cities and Communities, Responsible Consumption and Production, Climate Action, Life below Water, Life on Land, Peace, Justice and Strong Institutions, Partnerships for the Goals.

In this course, students aim:

- a. to gain a comprehensive understanding of 17 goals including their targets and challenges,
- b. to develop critical thinking ability to analyze global challenges such as poverty, inequality, and climate change through the lens of the SDGs,
- c. to propose feasible solutions for achieving the goals of the SDGs, and
- d. to learn how the research of the GRIPS faculty relates to the SDGs.

[Related Diploma Policy (DP)]

Young Leaders Program ②

One-year Master's Program of Public Policy (MP1) ①

Two-year Master's Program of Public Policy (MP2) ①

Macroeconomic Policy Program (One Year program) ②

Public Finance Program ④, ⑤

Economics, Planning and Public Policy Program ①, ②, ④

Maritime Safety and Security Policy Program ①, ②

Strategic Studies Program/戦略研究プログラム ①, ②, ④, ⑤

2. Course Outline :

In this course, GRIPS professors will discuss the respective goals of the SDGs from their areas of expertise. The schedule of lectures is as follows.

All lectures take place in Sokairo Hall from 09:30-10:30 on Friday.

Teaching materials are distributed via Teams.

No. Date (tentative), Lecturer, Title (tentative), Venue

1. 11 Oct., 2024 Prof. Kudo Introduction: the World and the SDGs @Sokairo Hall
2. 18 Oct., 2024 Prof. Ashiwa Engaged Buddhism for World Peace; Issues of Values, Religions and SDGs @Sokairo Hall
3. 25 Oct., 2024 Prof. Hiroki Water, Disaster and the SDGs @Sokairo Hall
4. 1 Nov., 2024 Prof. Chey Hyoung-kyu Digital currencies and the future of money @Sokairo Hall
5. 8 Nov., 2024 Prof. Patarapong Innovation and Industry @Sokairo Hall
6. 15 Nov., 2024 Prof. Ohno TBA @Sokairo Hall
7. 22 Nov., 2024 Prof. Wie Cracking the Gender Code: Gender and Labor Market Inequalities @Sokairo Hall
8. 29 Nov., 2024 Prof. Pressello Armed Conflicts and Japan's Peace Diplomacy @Sokairo Hall

*The schedule is subject to change.

Out-of-class learning

Students should read the materials distributed through the teams and/or the relevant chapters of the textbook prior to class in order to understand the outline and questions to be asked in class. After class, students should review the content of the lecture and consider how the issues learned apply to their country and what the policy implications are.

This course is related to all goals of the SDGs.

3. Grading :

Grading is based on your contribution to class discussion and the reaction notes.

After class, you will be asked to write a 500-1000-word reaction note, in which you write your take-home messages, criticisms, and impressions of lectures.

[Evaluation Criteria]

Pass: student achievement is above the course goals.

fail: student achievement is below the acceptable level.

4. Textbooks and References (4-1:Required 4-2:Others)

United Nations, The Sustainable Development Goals Report, various issues.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GGG5110E

講義名[日本語(英語)] / Class Name : Tutorial I

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Tutorial is a small-sized, lab-type class, comprising 2-5 students.

The major purposes of the Tutorial are: 1) to deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation and 2) to nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

All G-cube students are encouraged to take at least two Tutorials, which provide a good opportunity to match with the main supervisor and to stimulate peer learning among students who have similar academic interests.

Tutorials can begin in the following way. Students with a specific topic of study are encouraged to talk to a professor with research interest related to the topic. If the professor agrees to have a tutorial with the students, they make a reading list and schedule. They may also allow some other students sharing the same interest to join them.

The students participating in a tutorial must be registered with the Academic Support Team during the registration period at the beginning of each term. A tutorial may be Tutorial I for a participant if it is his or her first tutorial, but the same tutorial may be Tutorial III for another participant if it is his or her third. Once a tutorial gets started, it lasts for 15 sessions (each session for 90 minutes) or equivalent class time and has to be completed within that term.

Tutorials will take various forms, depending on the instructor's and students' preferences. The examples include a) Reading seminar where students submit a feedback paper on each reading assignments before each class, and in the classroom, they spend time on discussion rather than presentation; b) Debate seminar where students participate in debates on assigned issues; and c) Presentation seminar where students discuss certain issues based on other students' presentations. The exact style will be determined between the instructor and students.

Another important role of tutorials is to provide writing skill training. The tutor should require students to write short essays, summaries, and/or papers.

Students can

- deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation
- nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

G-cube DP: 2

2. Course Outline :

Course Outline will be provided at the first class.

3. Grading :

Pass or fail. 100% of attendance is required to earn a credit.

Pass: Active participation in the classroom discussion and good-quality writing assigned by the instructor

Fail: Fail to achieve the required goal above

4. Textbooks and References (4-1:Required 4-2:Others)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GGG5120E

講義名[日本語(英語)] / Class Name : Tutorial II

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Tutorial is a small-sized, lab-type class, comprising 2-5 students.

The major purposes of the Tutorial are: 1) to deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation and 2) to nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

All G-cube students are encouraged to take at least two Tutorials, which provide a good opportunity to match with the main supervisor and to stimulate peer learning among students who have similar academic interests.

Tutorials can begin in the following way. Students with a specific topic of study are encouraged to talk to a professor with research interest related to the topic. If the professor agrees to have a tutorial with the students, they make a reading list and schedule. They may also allow some other students sharing the same interest to join them.

The students participating in a tutorial must be registered with the Academic Support Team during the registration period at the beginning of each term. A tutorial may be Tutorial I for a participant if it is his or her first tutorial, but the same tutorial may be Tutorial III for another participant if it is his or her third. Once a tutorial gets started, it lasts for 15 sessions (each session for 90 minutes) or equivalent class time and has to be completed within that term.

Tutorials will take various forms, depending on the instructor's and students' preferences. The examples include a) Reading seminar where students submit a feedback paper on each reading assignments before each class, and in the classroom, they spend time on discussion rather than presentation; b) Debate seminar where students participate in debates on assigned issues; and c) Presentation seminar where students discuss certain issues based on other students' presentations. The exact style will be determined between the instructor and students.

Another important role of tutorials is to provide writing skill training. The tutor should require students to write short essays, summaries, and/or papers.

Students can

- deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation
- nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

G-cube DP: 2, 3 and 4

2. Course Outline :

Course Outline will be provided at the first class.

3. Grading :

Pass or fail. 100% of attendance is required to earn a credit.

Pass: Active participation in the classroom discussion and good-quality writing assigned by the instructor

Fail: Fail to achieve the required goal above

4. Textbooks and References (4-1:Required 4-2:Others)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GGG5130E

講義名[日本語(英語)] / Class Name : Tutorial III

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Tutorial is a small-sized, lab-type class, comprising 2-5 students.

The major purposes of the Tutorial are: 1) to deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation and 2) to nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

All G-cube students are encouraged to take at least two Tutorials, which provide a good opportunity to match with the main supervisor and to stimulate peer learning among students who have similar academic interests.

Tutorials can begin in the following way. Students with a specific topic of study are encouraged to talk to a professor with research interest related to the topic. If the professor agrees to have a tutorial with the students, they make a reading list and schedule. They may also allow some other students sharing the same interest to join them.

The students participating in a tutorial must be registered with the Academic Support Team during the registration period at the beginning of each term. A tutorial may be Tutorial I for a participant if it is his or her first tutorial, but the same tutorial may be Tutorial III for another participant if it is his or her third. Once a tutorial gets started, it lasts for 15 sessions (each session for 90 minutes) or equivalent class time and has to be completed within that term.

Tutorials will take various forms, depending on the instructor's and students' preferences. The examples include a) Reading seminar where students submit a feedback paper on each reading assignments before each class, and in the classroom, they spend time on discussion rather than presentation; b) Debate seminar where students participate in debates on assigned issues; and c) Presentation seminar where students discuss certain issues based on other students' presentations. The exact style will be determined between the instructor and students.

Another important role of tutorials is to provide writing skill training. The tutor should require students to write short essays, summaries, and/or papers.

Students can

- deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation
- nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

G-cube DP: 2, 3 and 4

2. Course Outline :

Course Outline will be provided at the first class.

3. Grading :

Pass or fail. 100% of attendance is required to earn a credit.

Pass: Active participation in the classroom discussion and good-quality writing assigned by the instructor

Fail: Fail to achieve the required goal above

4. Textbooks and References (4-1:Required 4-2:Others)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GGG5140E

講義名[日本語(英語)] / Class Name : Tutorial IV

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Tutorial is a small-sized, lab-type class, comprising 2-5 students.

The major purposes of the Tutorial are: 1) to deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation and 2) to nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

All G-cube students are encouraged to take at least two Tutorials, which provide a good opportunity to match with the main supervisor and to stimulate peer learning among students who have similar academic interests.

Tutorials can begin in the following way. Students with a specific topic of study are encouraged to talk to a professor with research interest related to the topic. If the professor agrees to have a tutorial with the students, they make a reading list and schedule. They may also allow some other students sharing the same interest to join them.

The students participating in a tutorial must be registered with the Academic Support Team during the registration period at the beginning of each term. A tutorial may be Tutorial I for a participant if it is his or her first tutorial, but the same tutorial may be Tutorial III for another participant if it is his or her third. Once a tutorial gets started, it lasts for 15 sessions (each session for 90 minutes) or equivalent class time and has to be completed within that term.

Tutorials will take various forms, depending on the instructor's and students' preferences. The examples include a) Reading seminar where students submit a feedback paper on each reading assignments before each class, and in the classroom, they spend time on discussion rather than presentation; b) Debate seminar where students participate in debates on assigned issues; and c) Presentation seminar where students discuss certain issues based on other students' presentations. The exact style will be determined between the instructor and students.

Another important role of tutorials is to provide writing skill training. The tutor should require students to write short essays, summaries, and/or papers.

Students can

- deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation
- nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

G-cube DP: 2, 3 and 4

2. Course Outline :

Course Outline will be provided at the first class.

3. Grading :

Pass or fail. 100% of attendance is required to earn a credit.

Pass: Active participation in the classroom discussion and good-quality writing assigned by the instructor

Fail: Fail to achieve the required goal above

4. Textbooks and References (4-1:Required 4-2:Others)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GGG5150E

講義名[日本語(英語)] / Class Name : Tutorial V

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Tutorial is a small-sized, lab-type class, comprising 2-5 students.

The major purposes of the Tutorial are: 1) to deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation and 2) to nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

All G-cube students are encouraged to take at least two Tutorials, which provide a good opportunity to match with the main supervisor and to stimulate peer learning among students who have similar academic interests.

Tutorials can begin in the following way. Students with a specific topic of study are encouraged to talk to a professor with research interest related to the topic. If the professor agrees to have a tutorial with the students, they make a reading list and schedule. They may also allow some other students sharing the same interest to join them.

The students participating in a tutorial must be registered with the Academic Support Team during the registration period at the beginning of each term. A tutorial may be Tutorial I for a participant if it is his or her first tutorial, but the same tutorial may be Tutorial III for another participant if it is his or her third. Once a tutorial gets started, it lasts for 15 sessions (each session for 90 minutes) or equivalent class time and has to be completed within that term.

Tutorials will take various forms, depending on the instructor's and students' preferences. The examples include a) Reading seminar where students submit a feedback paper on each reading assignments before each class, and in the classroom, they spend time on discussion rather than presentation; b) Debate seminar where students participate in debates on assigned issues; and c) Presentation seminar where students discuss certain issues based on other students' presentations. The exact style will be determined between the instructor and students.

Another important role of tutorials is to provide writing skill training. The tutor should require students to write short essays, summaries, and/or papers.

Students can

- deepen the knowledge in special subjects and improve skills required for writing a doctoral dissertation
- nurture the abilities to become a top leader, through sharpening logical and critical thinking, strengthening communication skills, and building abilities to design the future.

G-cube DP: 2, 3 and 4

2. Course Outline :

Course Outline will be provided at the first class.

3. Grading :

Pass or fail. 100% of attendance is required to earn a credit.

Pass: Active participation in the classroom discussion and good-quality writing assigned by the instructor

Fail: Fail to achieve the required goal above

4. Textbooks and References (4-1:Required 4-2:Others)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GLD3100E

講義名[日本語(英語)] / Class Name : Seminar on International Relations Theories and Research Methods

担当者 (フルネーム) / Course instructor (Full Name): BRUMMER Matthew, 田中 明彦/BRUMMER Matthew and TANAKA Akihiko

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/土 Sat/1

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

(Please consider if you should take this course or Professor Iwama's course (GOV2200EA).

This course aims to provide students with an advanced introduction to essential concepts and terms of art for the study International Relations (IR). We examine the IR discipline's primary theoretical approaches, including Realism, Liberalism, and Constructivism, as well as "non-Western" theories such as The China School. The course seeks to communicate the character of world politics from diverse perspectives, including system, actor, and normative approaches, with an emphasis on relating theory to questions of public policy. Thus, the course is both macro-theory and micro-policy focused.

The course will draw on core texts in international relations to provide students with a firm grounding from which to think about and analyze a range of critical issues in global affairs. By the end of the course, students will: have developed a broad understanding of IR, its terminology and theoretical traditions; be able to assess and apply different IR theories to specific issues in world politics from multi-faceted perspectives; be able to identify and develop their own inquiries into the core debates in IR; and have developed communication and academic skills necessary to undertake social science research in IR. Students will also develop debate and teamwork skills through course assignments and activities.

The course requires students to be committed to learning and to come prepared to class, having read the assigned texts in advance. The course will be taught over 15 classes and students are expected to attend all classes in principle. In following GRIPS guidelines for 2-credit courses, approximately sixty hours of out-of-classroom study is expected for the semester. Typically, each class will be divided into a lecture and a seminar. The course instructor will lead the lecture at the beginning of each class, after which we will turn to a seminar-based discussion where students will present and critically discuss the assigned reading(s) for that day.

2. Course Outline :

The course is divided roughly into 2 modules. In the first module, we will examine the core theories of International Relations as well as their sub-theories, including an introduction to "non-Western IR." In the second module, we will apply theory to practice and current affairs.

Module I: Class 1 to 8: Realism; Liberalism; Constructivism; The China School, etc.

Module II: Class 9 to 15: Great Power rivalry and US-China competition; Technological revolutions and artificial intelligence, Security and climate change, The Russia-Ukraine War, etc. (Topics for this phase will be decided in part depending on student interest – a poll will be taken on the first day of class).

The detailed course outline will be presented on the second day of class after Module II has been decided.

3. Grading :

Students will be assessed on the following components: Participation, Debate, Mid-term Exam, and Term Paper.

Participation (20%). All students are expected to actively participate in class discussion and attendance will be taken. Participation includes but is not limited to asking questions of the instructor and of other students, as well as offering descriptive and/or analytical feedback on readings and classroom discussion. Additionally, each student will serve as a Presenter and as a Discussant for at least one of the weekly reading assignments during the semester. The role of the Presenter is to critically review the weekly reading in a concise manner while the role of the Discussant is to critique the Presenter's review, pose questions to the Presenter, and facilitate discussion with the class.

Debate (10%). As part of a team, you will argue the affirmative or negative side of a debated topic in international relations. In the class at least one week prior to the debate, students will be assigned to a team and to the debate topic. Evaluation criteria will include the quality of presentation, of arguments, and of team coordination. There will also be a peer component to the grade (how well your peers evaluate your team's performance). All members of the team receive the same grade for the debate. Through this exercise students will not only learn the subject matter but also debate and teamwork skills, both essential to professional development in international affairs.

Midterm Exam (25% or 35% or 45%*). A written, 75-minute in-class exam covering all lectures and required readings. Questions will take a variety of forms, including multiple choice and short answer. Students will be given more questions than they will be graded on, allowing them to focus on question they prefer to answer. For example, if 6 short answer prompts are given, student will be graded on the top 5 answer that they provide (and the sixth question/answer will be discarded from the grading). The goal of the midterm is to reinforce learning and promote knowledge retention and communication under time constraints without the availability of AI or other support resources.

Term Paper (25% or 35% or 45%*). Students will write a final term paper on a topic of their choosing and in consultation with the course instructor. Papers will be approximately 3,000 words (5,000 words maximum). The term paper is a research essay on a topic related to international relations broadly defined. Students should apply a theory or framework covered in the course or elsewhere to a topic of their choosing. Essays will be graded on: quality of writing (precise and concise research question, argument, and evidence to answer the question in

support of the argument); demonstrated applicability of theory and concepts covered in the course or beyond to the research question etc.); quality of analysis (persuasiveness of supporting evidence, consideration of counterarguments, etc.), and appropriate reference to academic and policy literature. These can be deductive or inductive in design. Term papers are designed to contribute to the learning objectives of applying different IR theories to specific issues in world politics while developing one's own inquiries into the core debates in the discipline towards developing skills necessary to undertake social science research.

*Because everyone learns differently and has different skillsets e.g., test-taking vs. research and writing all students can select the grade distribution that best fits their preferences within three pre-defined weightings. Thus, for example, students may select to have the midterm count as 25% of their grade and the term paper as 45%, or vice-versa. Finally, extra credit may be earned by publishing on an international relations topic in a journal or newspaper. Details will be explained on the first day of class.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

No textbook is required for this course. All readings will be provided by the professor.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Note

For students wishing to read ahead, please consider the following textbook: Baylis, Smith and Owens, "The Globalization of World Politics," Oxford University Press. Please also read Foreign Affairs magazine.

COVID-19 Statement

Although we have emerged out of strict Covid-19 regulations, please take care of yourselves and each other in exercising appropriate discretion regarding health and wellness.

Disclaimer

This syllabus is subject to change. Any changes will be announced in class and/or via email. This syllabus is not a static, fixed document; it is designed to adapt.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV1460E

講義名[日本語(英語)] / Class Name : The Making of Modern Japan

担当者 (フルネーム) / Course instructor (Full Name) : PRESSELLO Andrea/PRESSELLO Andrea

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

How did Japan become a modern country? What challenges did Japan face while modernizing and how did it address them? How has modern Japan interacted with the world? The purpose of this course is to address these broad questions by examining major issues in the process of Japan's transformation from a feudal society into a modern country. The course focuses on the period between the 19th century (when Japan ended its policy of relative seclusion, began a process of domestic reforms, and expanded its international relations) and the end of World War II in 1945. Particular attention is given to the interplay between domestic developments (related to society, institutions, politics, etc.) in Japan, foreign policy, and the changing international relations environment in East Asia. Through this course, students can acquire a basic understanding of historical developments and policy issues in Japan and acquire the ability to identify and explain factors shaping the process of making modern Japan. Through such learning, students can also gain the necessary background knowledge to have a deeper understanding of post-World War Two Japan. Students from different countries are highly encouraged to register for this course; the diverse perspectives that they can contribute is expected to enrich the discussion of Japan's experience of modernization. A background knowledge of Japanese history is not required. An overview of major developments in pre-modern Japan will be provided at the beginning of the course. During the course, some videos will be shown and one class will be held in the form of a visit to a site related to the contents of the course.

[Related Diploma Policy (DP)]

Strategic Studies Program DP1

- ① 安全保障・防衛問題を理解するための知識と分析能力

Maritime Safety and Security Policy Program DP1

- ① The knowledge and analytical ability to understand problems and challenges, and to identify opportunities for improvement in the areas of maritime safety and security

[Course Goals]

Students can:

- understand issues and processes in Japan's modern history.
- develop the ability to identify and explain factors shaping Japanese leaders' choices, and their implications.

2. Course Outline :

- 1) Introduction
- 2) Pre-modern Japan: an overview
- 3) The Edo period (1603-1868): laying the foundations for Japan's modernization
- 4) End of the "closed country" policy and the "Meiji Revolution", 1853-1868
- 5) Building a new nation: modernization reforms
- 6) Role of the intellectuals: the case of Fukuzawa Yukichi
- 7) Rise of political parties and the Meiji Constitution (1889)
- 8) Field trip (TBC)
- 9) The making of Japan as an international power: Japan's wars with China (1894-5) and Russia (1904-5)
- 10) Japan's cooperative approach to international relations: World War I and the Washington Conference
- 11) Japanese society in the 1920s-1930s: from "Taishō democracy" to the rise of militarism
- 12) Japan and Asia during World War II
- 13) Japan and the United States during World War II
- 14) Wrap-up discussion
- 15) Presentation on the Term Paper

* This course outline is subject to change.

[Out-of-class Learning]

In preparation for each class, students are expected to read the materials distributed by the instructor and write short reaction comments on them. After class, students are encouraged to review the contents of the lecture and their notes. Students are also encouraged to do further reading on specific topics of their interest that were discussed in class.

3. Grading :

Term paper: 60%

Weekly short reaction comments and contribution to class discussion: 40%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

- A: at a high level
- B: at a satisfactory level
- C: at a generally acceptable level
- D: at a minimum acceptable level
- E: did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

There is no specific textbook required for this course. Reading materials (such as journal articles, book chapters, other) will be provided by the instructor during the course.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

The use of generative artificial intelligence is not allowed when writing weekly assignments and the term paper.

Software that provide support with English grammar and spelling can be used.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Students who want to audit the course without registering are required to: 1) Send an email to the instructor stating that they intend to audit the course; 2) read the assigned materials and submit reaction comments every week.

Students from all programs are welcome to register for this course.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV2200EA

講義名[日本語(英語)] / Class Name : International Relations

担当者 (フルネーム) / Course instructor (Full Name) : 岩間 陽子/IWAMA Yoko

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/木 Thu/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

【Outline of the lecture】

This course is intended to provide introduction into the study of international relations for beginners. It aims to provide understanding of basic theories of the IR and also the knowledge about how current international state system has come about. After introducing the students to the major theoretical approaches of IR, we will cover the evolution of the modern state system in order to better understand the nature of the change world system is now facing. Thereafter we will examine different aspects of the challenges we are facing in the 21st century.

【Achievement Goals】

- Students will understand the three basic theories of the IR (realism, liberalism, and constructivism) and be able to apply them to analyze practical situations.
- Students will acquire knowledge about the basic history of the evolution of the international state system since its birth in the 17th century and be able to point out similarities and differences with the situations facing them.
- Students will be able to understand how the same historical event may look differently from different theoretical perspectives.
- Students will acquire the ability to identify the theoretical assumptions behind the narratives about international relations and be able to think about the pros and cons of any specific analysis or policy before them.
- Students will acquire ability to propose several policy options to various foreign policy situations they may face as national leaders.

【Related Diploma Policy】

YLP ②,④; MP1 ①④⑤ : MP2①④⑤; MEP1 ⑤ ; MEP2 ⑤; PF ⑤; EPP④ ; MSP①④

2. Course Outline :

【Out-of-class learning】

- Students are required to read the designated pages of the textbook before the class.
- Students are also encouraged to watch recommended audiovisual materials where available.
- After each class, students are required to read through the class material and send in questions regarding the class content before the morning of the following Monday 9.00 am.
- There will also be short readings or audiovisual materials to watch several times during the course to which students will be asked to answer questions.

【Course Outline】

1 : Introduction

This will be an introductory session to the course and the study of international relations. The students will be introduced to the key concepts, building blocks, and levels of analysis of the international relations.

Mansbach & Pirro, Introduction to International Relations, Prologue, pp.xxv~xxxiii.

Nye and Welch, Understanding Global Conflict and Cooperation, Chapter 1 and 2.

2 : Two basic approaches: Realism and Liberalism

Students will be introduced to the basic ideas of realism and liberalism in international relations and how they have developed through historical debates.

Mansbach & Pirro, Chapter 1.

Nye & Welch, Chapter 1 and 2.

Steven Lamy, et. al, Introduction to Global Politics, (6th edition, 2021) Chapter 3.

3 Contemporary approaches: Neo-Realism, Neo-Liberalism, Constructivism & other approaches

Students will be introduced to 20th century and ongoing debate about theoretical approaches to international relations, including neo-realism, neo-liberalism, constructivism and other critical approaches.

Mansbach & Pirro, Chapter 1.

John Baylis/ Steve Smith/ Patricia Owens, The Globalization of World Politics: An Introduction to international relations (Oxford University Press, 2023th 9th edition) Ch. 7.

Joseph S. Nye Jr., Bound to Lead: The Changing Nature of American Power, (1990)

Joseph S. Nye Jr., Soft Power: the means to success in world politics, (2004)

4 : Birth of the Modern World and the Modern State System

The students will be introduced to the origins of the modern world and modern state system in 17th century. They will also learn how Europe only became dominant in the world during the modern era and will try to look at the modern state system in a relative context.

Mansbach & Pirro, Chapter 2 the evolution of the interstate system.

Baylis/Smith/Owens, chapter 3 the rise of the modern international order.

Paul Gordon Lauren/ Gordon A. Craig/ Alexander L. George, Force and Statecraft: Diplomatic Challenges of our time (Oxford University Press, 2007, 4th edition) Ch.1 & 2.

Lamy/Baylis/Smith/Owens, Introduction to Global Politics, Chapter 2, the evolution of global politics.

5: 19th Century Concert System to the First World War

19th century saw the rise of nationalism which transformed the system of nation state. Changes in technology brought about the first wave of globalization in human history which ended in the disastrous First World War. Students will be introduced to the idea of "concert system" as well as the interpretations of the causes of the first world war.

Mansbach & Pirro, Chapter 3 The world wars, pp.70-84.

Nye & Welch, Chapter 3 From Westphalia to World War I.

Europe Prior to World War I: Alliances and Enemies
<https://www.youtube.com/watch?v=f11CKYB2FCA&list=PLB2vhKMBjSxMK8YelHj6VS6w3KxuKsMvT&index=2>

The Outbreak of WWI - How Europe Spiraled Into the GREAT WAR
<https://www.youtube.com/watch?v=6FgaL0xIazk&list=PLB2vhKMBjSxMK8YelHj6VS6w3KxuKsMvT&index=1>

A Shot that Changed the World - The Assassination of Franz Ferdinand I PRELUDE TO WW1 - Part 3
<https://www.youtube.com/watch?v=ZmHxq28440c&list=PLB2vhKMBjSxMK8YelHj6VS6w3KxuKsMvT&index=4>

Germany in Two-Front War and the Schlieffen-Plan I THE GREAT WAR - Week 2
<https://www.youtube.com/watch?v=O0Xft60rvsA&list=PLB2vhKMBjSxMK8YelHj6VS6w3KxuKsMvT&index=5>

Trench Warfare in World War 1 I THE GREAT WAR Special
<https://www.youtube.com/watch?v=P92guhd7d-8>

The Ally From The Far East - Japan in World War 1 I THE GREAT WAR Special
https://www.youtube.com/watch?v=WG_SzUVNo8I

Henry Kissinger, Diplomacy, 1994.

Henry Kissinger, A World Restored, 1974.

6: The Legacies of Versailles Peace Conference and interwar years

The Versailles Peace Treaty is very often treated as an example of a harsh peace which led to catastrophic consequences. Students will be explained why this is so and whether there were missed chances to avoid the Second World War in just twenty years from the first world war. They will also learn about the first experiment of a world wide collective security; the league of nations.

Mansbach & Pirro, Chapter 3, pp.84-96.

Nye and Welch, Chapter 4, The Failure of collective security and world war II, pp.116-125.

WW1: Does the peace that ended the war haunt us today? BBC Teach <https://www.bbc.co.uk/teach/does-the->

peace-that-ended-ww1-haunt-us-today/zf4cscw

<recommended audiovisual materials>

Russia Before the 1917 Revolution I THE GREAT WAR Special

<https://www.youtube.com/watch?v=t1b3f2UykG0>

1917: Russias Two Revolutions

<https://www.youtube.com/watch?v=j-tICpleWLI>

The Death of the Russian Army 1917 (WW1 Documentary)

https://www.youtube.com/watch?v=dCXV_J8LxyE

How the Russian Civil War Ended

<https://www.youtube.com/watch?v=opMPduC59tU>

7 : The Great Depression and the failure of the interwar system

Why did the collapse of Wall street cause such a global turmoil with great consequences? How was it connected to the democratizing societies of Japan and Germany?

Mansbach & Pirro, pp.96-105.

Nye & Welch, pp.126-145.

World War Zero: The Russo-Japanese War 1904-5

<https://www.youtube.com/watch?v=deuzVsKMsTA&t=3s>

The Ally From The Far East - Japan in World War 1 I THE GREAT WAR Special

https://www.youtube.com/watch?v=WG_SzUVNo8I (4:48~)

The Age of Warlords - China in WW1

<https://www.youtube.com/watch?v=TofCRaOBWZ0>

Zara Steiner, *The Lights that Failed: European International History 1919-1933*, (Oxford U.P., 2005)

Zara Steiner, *The Triumph of the Dark: European International Relation 1933-1939* (Oxford U.P., 2011)

8: The Second World War

Why did the League of Nations fail to stop the aggression of both Germany and Japan? What is appeasement and how did the later generation learn lessons from the two world wars?

Nazi Congress in Nuremberg, Germany (1936) | British Pathé

<https://www.youtube.com/watch?v=LMbd-UYyEd0>

Leni Riefenstahl: Olympia - Festival of Nations (1936)

<https://www.youtube.com/watch?v=H3LOPhRq3Es>

Charlie Chaplin "The Great Dictator"

<https://www.youtube.com/watch?v=VFRMK9HGyaM>

(the final speech) <https://www.youtube.com/watch?v=6KvTaVrTJto>

Richard J. Evans, *The Coming of the Third Reich: How the Nazis Destroyed Democracy and Seized Power in Germany*, 2004.

Richard J. Evans, *The Third Reich in Power, 1933 - 1939: How the Nazis Won Over the Hearts and Minds of a Nation*, 2006.

Richard J. Evans, *The Third Reich at War: How the Nazis Led Germany from Conquest to Disaster*, 2009.

9 : The Cold War, part 1: Onset of the Cold War

Students will be introduced to the different interpretations of the onset of the Cold War. They will learn how different understanding of the past leads to different choices for the present and the future. They will also look at the United Nations and its legacies.

Mansbach & Pirro, Chapter 4 The Cold War, pp.106-128.

Nye/ Welch, Chapter 5, pp.146-164.

Baylis/Smith/Owens, Chapter 21 the United Nations,

Geir Lundestad, *The United States and Western Europe since 1945 : from empire by invitation to transatlantic drift*, Oxford University Press, 2003

10 : The Cold War, Part 2: Nuclear weapons, Decolonization and the Global South

The 1960s saw the emergence of a huge group of new actors in the world. This also meant the globalization of the "Westphalian state system." It was also a period determined by the huge growth in the world nuclear weapons arsenal. How did the world deal with such changes?

Mansbach & Pirro, pp.128-131; Chapter 5 Decolonization and the Global South

Nye & Welch, pp.164-172.

Odd Arne Westad, *The Global Cold War: Third World Interventions and the Making of Our Times*, Cambridge University Press, 2005.

Geir Lundestad, *International relations since 1945 : east, west, north, south*, 8th ed., SAGE, 2018.

11: The End of the Cold War, From Dëcembre to the Berlin Wall

What role did the nuclear weapons play during the Cold War? How was the dëcembre period brought about and how did it lead to the end of the Cold War? What legacies did it leave?

Mansbach & Pirro, pp.131-141.

Nye & Welch, pp.171-199.

12: Conflict and Cooperation in the Post-Cold War World

What patterns of conflict emerged in the immediate post-cold war world? How did the US as the solitary global power deal with these crises? How did the experiences in Iraq and Afghanistan shape its future?

Nye & Welch, Chapter 6 Conflict and Cooperation in the Post-Cold War World

Mansbach & Pirro, Chapter 8 Power in global politics and the causes of wars; Chapter 9 Technology and the changing faces of warfare

Stanley Hoffman, *Duty Beyond Borders: on the limits and possibilities of ethical international politics*(Syracuse University Press, 1981)

Michael Walzer, *Just and Unjust Wars: A moral argument with Historical Illustrations*, 4th edition (Basic Books, 2004)

13: Managing Conflict: International Law and International and Transnational organizations

Mansbach & Pirro, Chapter 10 Managing conflict

R. Keohane and J. Nye, *Transnational Relations and World Politics*, (Harvard U. P., 1972)

14 : The Challenge of the rise of China and beyond

Since the 2010s China's rise has posed different challenges for the world. How can we learn from the history to understand this challenge? What do different theories tell us about the future possibilities?

Mansbach & Pirro, *China and the United States: a New Bipolarity?* pp.220-225.

Nye & Welch, chapter 7 *Current flashpoints*, pp.278-297.

15 : The 21st century world and the future

What are the problems facing us and what can we expect in the future? The students will be encouraged to discuss the arguments of both Nye & Welch and Mansbach and Pirro.

Mansbach & Pirro, Part IV Global Issues, Part V, Epilogue.

Nye & Welch, Chapter 10 *What can we expect in the future?*

3. Grading :

Grading will be based on 1 mid-term paper (30%) and 1 term-paper (40%), reactions after the class and submission of several homework (30%).

[Evaluation Criteria]

Student achieves the Course Goals at:

high level: A

satisfactory level: B

generally satisfactory level: C

minimum acceptable: D

Student does not achieve the Course Goals: E

4. Textbooks and References (4-1:Required 4-2:Others)

4-1

Richard W. Mansbach & Ellen Pirro, Introduction to Global Politics, 4th edition, (Routledge, 2023).

Joseph S. Nye Jr. and David A. Welch, Understanding Global Conflict and Cooperation, (Pearson/Longman, 2016, 10th edition)

4-2

John Baylis, Steven Smith, Patricia Owens, The Globalization of World Politics: An Introduction to International Relations, 9th edition, (Oxford University Press, 2023).

Steven Lamy/John S. Masker/John Baylis/Steve Smith/ Patricia Owens, Introduction to Global Politics, Sixth edition, (Oxford University Press, 2021).

*Paul Gordon Lauren/ Gordon A. Craig/ Alexander L. George, Force and Statecraft: Diplomatic Challenges of our time (Oxford University Press, 2020, 6th edition)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Allow

7. Note :

This class is intended for those who have not studied International Relations before. If you have previously studied International Relations, please take Professor Brummers class GOV2200EB. Sending in questions after the class will serve as the proof of a

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV2200EB

講義名[日本語(英語)] / Class Name : International Relations

担当者 (フルネーム) / Course instructor (Full Name) : BRUMMER Matthew/BRUMMER Matthew

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/木 Thu/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

(Please consider if you should take this course or Professor Iwama's course (GOV2200EA).

This course aims to provide students with an advanced introduction to essential concepts and terms of art for the study International Relations (IR). The course examines the IR discipline's primary theoretical approaches, including Realism, Liberalism, and Constructivism. The course seeks to communicate the character of world politics from diverse perspectives, including system, actor, and normative approaches, with an emphasis on relating theory to questions of public concern and policies in practice. Thus, the course is both macro-theory and micro-policy focused.

The course will draw on core texts in international relations to provide students with a firm grounding from which to think about a range of critical issues in global affairs. By the end of the course, students will: have developed a broad understanding of IR, its terminology and theoretical traditions; be able to assess and apply different IR theories to specific issues in world politics; be able to identify and develop their own inquiries into the core debates in IR; and have developed communication and academic skills necessary to undertake social science research in IR.

The course requires students to be committed to learning and to come prepared to class, having read the assigned texts in advance. The course will be taught over 15 classes and students are expected to attend all classes. Typically, each class will be divided into a lecture and a seminar. The course instructor will lead the lecture at the beginning of each class, after which we will turn to a seminar-based discussion where students will present and critically discuss the assigned reading(s) for that day.

[Related Diploma Policy (DP)]

Young Leaders Program : 2

One-year Master's Program of Public Policy (MP1) :4

Two-year Master's Program of Public Policy (MP2) :4

Maritime Safety and Security Policy Program: 1

Strategic Studies Program/戦略研究プログラム: 1, 4

Science, Technology and Innovation Policy Program (Master): 2, 5

2. Course Outline :

The detailed course outline will be presented on the first day of class. The course is roughly divided into 2 phases.

In the first phase, we will examine the core theories of International Relations as well as their sub-theories. We will also have an introduction to non-Western IR, such as "the China School." In the second phase, we will apply theory to practice and current affairs, including the US-China rivalry, AI and technological revolutions, and climate change.

3. Grading :

Students will be assessed on the following components:

Participation (20%). All students are expected to actively participate in class discussion, and attendance will be taken. Additionally, each student will serve as a Presenter and as a Discussant for at least one of the weekly reading assignments during the semester. The role of the Presenter is to critically review the weekly reading in a concise manner while the role of the Discussant is to critique the Presenter's review, pose questions to the Presenter and facilitate discussion with the class.

Quizzes (10%). Unannounced multiple choice "pop" quizzes will periodically be taken throughout the semester. These are wholly based on the required reading for that day.

Midterm Exam (25% or 35% or 45%*). A written, 90-minute in-class open-book exam covering all lectures and required readings. Questions will take a variety of forms, including multiple choice and short answer.

Term Paper (25% or 35% or 45%*). Students will write a final term paper on a topic of their choosing and in consultation with the course instructor. Papers will be approximately 3,000 word (5,000 words maximum)

*Because everyone learns differently and has different skillsets e.g., test-taking vs. research and writing all students can select the grade distribution that best fits their preferences within three pre-defined weightings. This will be explained on the first day of class. Finally, extra credit may be earned.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

No textbook is required for this course. All readings will be provided by the professor.

Note: For students wishing to read ahead, please consider the following textbook: Baylis,Smith and Owens, "The Globalization of World Politics," Oxford University Press. Please also read Foreign Affairs.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

COVID-19 Statement: Although we have emerged out of strict Covid-19 regulations, please take care of yourself and each other.

Disclaimer: This syllabus is subject to change. Any changes will be announced in class and/or via email. This syllabus is not a static, fixed document; it is designed to adapt.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV2210E

講義名[日本語(英語)] / Class Name : International Political Economy

担当者 (フルネーム) / Course instructor (Full Name) : CHEY Hyoung-kyu/CHEY Hyoung-kyu

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/3

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course introduces students to International Political Economy (IPE), the study of the complex interplay of economics and politics in the world arena. The course investigates two main questions: 1) what are the political causes of the evolving structure of the world economy? and 2) what are the implications of this evolving world economic structure for a nation's policy choices and for international and domestic politics? The emphasis of the course is not on the technical aspects of international economics or economic theory, but rather the political and institutional contexts in which they operate.

The course is broadly divided into two sections. In the first section, students will learn the main perspectives, theoretical approaches and methodological issues in IPE. In the second students will explore the major issue areas in IPE and important contemporary issues. The major issue areas covered include the international trade system, the international monetary and financial system, multinational corporations and foreign direct investment, economic development, and economic interdependence.

The primary goals of the course are for students to develop a comprehensive understanding of the main perspective and theoretical approaches in IPE and to enable them to effectively analyze and address contemporary major IPE issues.

Each class will consist of two parts. The first part will be a lecture by the instructor, and the second a seminar requiring the active participation of all students in discussing the major issues raised in the lecture. The lecture will account for about two-thirds of the length of each class, and the seminar the remainder.

This course is related to SDG Goals 9 (Industry, Innovation and Infrastructure) and 16 (Peace, Justice and Strong Institutions).

[Related Diploma Policy]

Young Leaders Program (YLP):

(2) Ability to conduct policy analysis and make practical policy recommendations to solve problems with extensive knowledge on public policy.

(4) Ability to analyze specific policy issues, formulate policy recommendations on them, and present them.

One-year Master's Program of Public Policy (MP1):

(4) Ability to analyze international relations theories from the political and administrative perspectives at home

and abroad, and to make practical policy recommendations for problem solving based on this analysis.

(5) Ability to analyze interdisciplinary and broad public policies and make practical policy recommendations for problem solving.

Two-year Master's Program of Public Policy (MP2):

(4) Ability to analyze international relations theories from the political and administrative perspectives at home and abroad, and to make practical policy recommendations for problem solving based on this analysis.

(5) Ability to analyze interdisciplinary and broad public policies and make practical policy recommendations for problem solving.

Macroeconomic Policy Programs (MEP1 and MEP2):

(5) Ability to have a deep understanding of and ability to respond to different values, systems, cultures, and societies, and to play an active role as a leader in a global society.

Public Finance Program (PF):

(3) The ability to understand the administrative, institutional, and legal aspects in the historical context surrounding public policies in general, tax and customs policies in particular, so as to provide practical solutions in reforming tax or customs administration in respective countries.

(5) The ability to have a deep understanding of different values and systems in a global society and to play an active role as a balanced leader.

Economics, Planning and Public Policy Program:

(1) The ability to conduct policy analysis to resolve problems based on academic analysis from multiple perspectives, supported by a broad knowledge of public policy.

(2) The ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice.

(3) The ability to analyze related data, etc. on an issue, using tools in economics, political science, public administration, etc., to compile and present research papers and policy proposals.

2. Course Outline :

Section I: Approaches and Concepts in International Political Economy

Week 1. Introduction to IPE

Week 2. Traditional Approaches to IPE: Mercantilism, Liberalism and Marxism

Week 3. Systemic Approaches to IPE: Hegemonic Stability theory and Neoliberal Institutionalism

Week 4. Domestic Approaches to IPE (Interests and Institutions) and Transnational Approaches to IPE

Week 5. Rationalism vs. Constructivism, American IPE vs. British IPE, and "Globalizing" IPE

Section II: Issue Areas

Trade

Week 6. The international Political Economy of Trade

Week 7. Contemporary Issues in Trade: Regional Trade Agreements

Money and Finance

Week 8. The International Political Economy of Money and Finance

Week 9. Contemporary Issues in Money and Finance: The Dollar, the Euro, the Renminbi, and the Future of the World Monetary Order

Multinational Corporations and Foreign Direct Investment

Week 10. The International Political Economy of MNCs and FDI

Week 11. Contemporary Issues concerning MNCs and FDI: Corporate Globalization and National Policies

Development

Week 12. The International Political Economy of Economic Development

Economic Interdependence

Week 13. Economic Interdependence and the Global Political Economy

Special Issue

Week 14. The International Political Economy of Artificial Intelligence

Week 15. Course Review and Exam

As part of the out-of-class learning activities, students are expected to complete the required readings for each class and are encouraged to review the recommended readings beforehand. Additionally, they should thoroughly review the lecture materials and reflect on the issues discussed in class following each session.

3. Grading :

Evaluation for the course will be based on two components: class participation, including contributions to class discussion (30%), and one in-class exam (70%).

Grades:

A: Outstanding achievement of the course goals.

B: Superior achievement of the course goals.

C: Satisfactory achievement of the course goals.

D: Minimum acceptable achievement of the course goals.

E: Achievement of the course goals is below the acceptable level.

4. Textbooks and References (4-1:Required 4-2:Others)

Core Texts

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge).

Ravenhill, John., ed. (2020). *Global Political Economy*, 6th edition (Oxford: Oxford University Press).

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press).

Required Readings

Week 1. Introduction to IPE

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapter 1.

Ravenhill, John. (2020). "The Study of Global Political Economy." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 1.

Baldwin, David A. (2013). "Power and International Relations," in *Handbook of International Relations*, edited by Walter Carlsnaes, Thomas Risse and Beth A. Simmons (Los Angeles: Sage Publications), Chapter 11.

Week 2. Traditional Approaches to IPE: Mercantilism, Liberalism, and Marxism

Gilpin, Robert. (1987). *The Political Economy of International Relations* (Princeton: Princeton University Press), Chapter 2.

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapter 1.

Watson, Matthew. (2020). "The Nineteenth-Century Roots of Theoretical Traditions in Global Political Economy." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 2.

Week 3. Systemic Approaches to IPE: Hegemonic Stability Theory and Neoliberal Institutionalism

Cohen, J. Benjamin. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press), Chapters 3 and 4.

Krasner, Stephen. (1976). "State Power and the Structure of International Trade," *World Politics* 23 (3): 317-347.

Keohane, Robert O. (1984). *After Hegemony: Cooperation and Discord in the World Political Economy* (Princeton: Princeton University Press).

Lall, Ranjit. (2017). "Beyond Institutional Design: Explaining the Performance of International Organizations," *International Organization*, 71(2): 245-280.

Week 4. Domestic Approaches to IPE (Interests and Institutions) and Transnational Approaches to IPE

Hiscox, Michael J. (2020). "The Domestic Sources of Foreign Economic Policies." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 4.

Frieden, Jeff. (1988) "Sectoral Conflict and Foreign Economic Policy, 1914-1940," *International Organization*

42(1):5990.

Hyde, Susan D. and Elizabeth N. Saunders. (2020). "Recapturing Regime Type in International Relations: Leaders, Institutions, and Agency Space," *International Organization*, 74(2): 363-395.

Tallberg, Jonas, Thomas Sommerer, Theresa Squatrito, Christer Jonsson. (2014). "Explaining the Transnational Design of International Organizations," *International Organization*, 68(4): 741-774.

Week 5. Rationalism vs. Constructivism, American IPE vs. British IPE, and "Globalizing" IPE

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press).

Lake, David A. (2009). "TRIPs across the Atlantic: Theory and Epistemology in IPE." *Review of International Political Economy* 16(1): 4757.

Cohen, Benjamin J. (2014). *Advanced Introduction to International Political Economy* (London: Edward Elgar Publishing).

Helleiner, Eric. (2023). *The Contested World Economy: The Deep and Global Roots of International Political Economy* (Cambridge: Cambridge University Press)

Week 6. The International Political Economy of Trade

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapters 4 and 5.

Oatley, Thomas. (2017). "Open Economy Politics and Trade Policy," *Review of International Political Economy* 24(4): 699-717.

Silke Trommer. (2020). "The Evolution of the Global Trade Regime." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 5.

Week 7. Contemporary Issues in Trade: Regional Trade Agreements

Ravenhill, John. (2020). "Regional Trade Agreements." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 6.

Baccini, Leonardo. (2019). "The Economics and Politics of Preferential Trade Agreements," *Annual Review of Political Science*, 22: 75-92.

Week 8. The International Political Economy of Money and Finance

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapters 10 to 13.

Helleiner, Eric, and Melsen Babe. (2020). "The Evolution of the International Monetary and Financial System." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 8.

Armijo, Leslie Elliott, Daniel C. Tirone, and Hyoung-kyu Chey. (2020). "The Monetary and Financial Powers of States: Theory, Dataset, and Observations on the Trajectory of American Dominance," *New Political Economy*, 25(2): 174-194.

Week 9. Contemporary Issues in Money and Finance: The Dollar, the Euro, the Renminbi, and the Future of the World Monetary Order

Chey, Hyoung-kyu. (2012). "Theories of International Currencies and the Future of the World Economy," *International Studies Review*, 14(1), 5177.

Cohen, Benjamin J. (2015). *Currency Power: Understanding Monetary Rivalry* (Princeton: Princeton University Press).

Cohen, Benjamin J. (2019). *Currency Statecraft: Monetary Rivalry and Geopolitical Ambition* (Chicago and London: University of Chicago Press).

Chey, Hyoung-kyu. (2022). *The International Political Economy of the Renminbi: Currency Internationalization and Reactive Currency Statecraft* (Routledge), Chapters 1-3 and 8.

Week 10. The International Political Economy of MNCs and FDI

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapters 8 and 9.

Thun, Eric. (2020). "The Globalization of Production." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 7.

Morgan, Pippa and Yu Zheng. (2019). "Tracing the Legacy: China's Historical Aid and Contemporary Investment in Africa," *International Studies Quarterly*, 63(3): 558-573.

Pandya, Sonal S. (2016). "Political Economy of Foreign Direct Investment: Globalized Production in the Twenty-First Century," *Annual Review of Political Science*, 19: 455-75.

Week 11. Contemporary Issues concerning MNCs and FDI: Corporate Globalization and National Policies

The 2014 special issue of *Review of International Political Economy* (vol. 21, no. 1) on Global Value Chains and Global Production Networks in the Changing International Political Economy, available at the journal's website.

Bremmer, Ian. (2021). "The Technopolar Moment: How Digital Powers Will Reshape the Global Order," *Foreign Affairs*, 100(6): 112-128

Babic, Milan. (2023). "State Capital in a Geoeconomic World: Mapping State-led Foreign Investment in the Global Political Economy," *Review of International Political Economy*, 30(1): 201-228.

Week 12. The International Political Economy of Economic Development

Phillips, Nicola. (2020). "The Political Economy of Development." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 13.

Behuria, Pritish. (2020). "The Domestic Political Economy of Upgrading in Global Value Chains: How Politics Shapes Pathways for Upgrading in Rwanda's Coffee Sector," *Review of International Political Economy*, 27(2): 348-376.

Thurbon, Elizabeth and Linda Weiss. (2021). "Economic Statecraft at the Frontier: Korea's Drive for Intelligent Robotics," *Review of International Political Economy*, 28(1): 103-127.

Week 13. Economic Interdependence and the Global Political Economy

Mansfield, Edward D. (2004). "Introduction: Conflict, Statecraft, and National Security in the Global Economy," in Edward D. Mansfield (ed) *International Conflict and the Global Economy*, Cheltenham and Northampton: An Elgar Reference Collection, pp. ix-xvii.

Farrell, Henry and Abraham L. Newman. (2019). "Weaponized Interdependence: How Global Economic Networks Shape State Coercion," *International Security* 44(1): 42-79.

Milner, Helen V. (2021). "Is Global Capitalism Compatible with Democracy? Inequality, Insecurity, and Interdependence," *International Studies Quarterly* 65(4): 1097-1110.

Week 14. The International Political Economy of Artificial Intelligence

Tallberg, Jonas, Eva Erman, Markus Furendal, Johannes Geith, Mark Klamberg and Magnus Lundgren. (2023). "The Global Governance of Artificial Intelligence: Next Steps for Empirical and Normative Research," *International Studies Review* 25(3): viad040.

The Economist. (2024). "Welcome to the Era of AI Nationalism," January 1, https://www.economist.com/business/2024/01/01/welcome-to-the-era-of-ai-nationalism?utm_content=ed-picks-article-link-1&etear=business_nl_1&utm_campaign=r.business-newsletter&utm_medium=email.internal-newsletter.np&utm_source=salesforce-marketing-cloud&utm_term=1/5/2024&utm_id=1841550

Week 15. Course Review and Exam

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

The syllabus may be updated later.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV2240EB

講義名[日本語(英語)] / Class Name : International Security Studies

担当者 (フルネーム) / Course instructor (Full Name) : 道下 徳成/MICHISHITA Narushige

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course is designed to give students a better understanding of security issues in both theory and practice. We will discuss issues such as civil-military relations, international relations theories, intelligence, and nuclear issues in the first half of the course. In the latter half, we will look at the Japanese security policy and contemporary security issues such as cybersecurity and peacebuilding.

[Related Diploma Policy]

ASEAN Initiatives Program: : 1, 3

Young Leaders Program: 2

2. Course Outline :

Session 1: Orientation

Course introduction

Students' self-introduction

Recommended Reading:

Hans Rosling, Ola Rosling, and Anna Rosling Ronnlund, Factfulness: Ten Reasons We're Wrong About The World - And Why Things Are Better Than You Think (Sceptre, 2018)

Stephen Van Evera, Guide to Methods For Students of Political Science (Cornell University Press, 1997) (311.16||V26).

John M. Swales and Christine B. Freak, Academic Writing for Graduate Students: Essential Tasks and Skills (Michigan Series in English for Academic & Professional Purposes)(University of Michigan Press, 2012)

Hilary Glasman-Deal, Science Research Writing For Non-Native Speakers of English (Icp, 2009)

PART I: UNDERSTANDING SECURITY ISSUES

Session 2: Civilian Control and the Use of Force

Required Reading:

"Civilian control of the military," in Wikipedia,

"Civilmilitary relations," in Wikipedia, https://en.wikipedia.org/wiki/Civilian_control_of_the_military

Eliot A. Cohen, "The Unequal Dialogue: The Theory and Reality of Civil-Military Relations and the Use of Force," in Peter Feaver and Richard Kohn, *Soldiers and Civilians: The Civil-Military Gap and American National Security* (Cambridge, Mass.: MIT Press, 2001), pp. 429-458.

Recommended Reading:

Mark T. Esper, *A Sacred Oath: Memoirs of a Secretary of Defense During Extraordinary Times* (William Morrow & Co, 2022).

Bob Woodward and Robert Costa, *Peril* (Simon & Schuster, 2021).

Bob Woodward, *Fear: Trump in the White House* (Simon & Schuster, 2018). (『FEAR 恐怖の男 トランプ政権の真実』)

Melvyn P. Leffler, *Confronting Saddam Hussein: George W. Bush and the Invasion of Iraq* (Oxford University Press, 2023).

Robert Draper, *To Start a War: How the Bush Administration Took America into Iraq* (Penguin Press, 2020).

The Saddam Tapes: The Inner Workings of a Tyrants Regime, 1978-2001 (English Edition) Kindle 版
英語版 Kevin M. Woods (編集), David D. Palkki (編集), Mark E. Stout (編集)

Brown University's Watson Institute for International and Public Affairs, "The Costs of War Project," <https://watson.brown.edu/costsofwar/>

James M. Dubik, *Just War Reconsidered: Strategy, Ethics, and Theory* (The University Press of Kentucky, 2016).

Michael R. Gordon and Bernard E. Trainor, *The Generals' War: The Inside Story of the Conflict in the Gulf* (Little Brown & Co, 1995).

Michael R. Gordon and Bernard E. Trainor, *Cobra II: The Inside Story of the Invasion and Occupation of Iraq* (Atlantic Books, 2006).

Michael R. Gordon and Bernard E. Trainor, *The Endgame: The Inside Story of the Struggle for Iraq, from George W. Bush to Barack Obama* (Pantheon, 2012).

Eliot A. Cohen, *Supreme Command: Soldiers, Statesmen, and Leadership in Wartime* (Free Press, 2002). (エリオット・コーエン『戦争と政治とリーダーシップ』中谷和男訳、アスペクト、2003年の原書。但し、翻訳はあまりよくない)。

Ash Carter, *Inside the Five-Sided Box: Lessons from a Lifetime of Leadership in the Pentagon* (Dutton, 2019)

Robert M. Gates, *Duty: Memoirs of a Secretary at War* (Knopf, 2014)

Tommy R. Franks, *American Soldier* (Harper, 2004).

John Bolton, *The Room Where It Happened: A White House Memoir* (Simon & Schuster, 2020)

James M. Dubik, *Just War Reconsidered: Strategy, Ethics, and Theory* (The University Press of Kentucky, 2016).

Peter Feaver and Richard Kohn, *Soldiers and Civilians: The Civil-Military Gap and American National Security* (Cambridge, Mass.: MIT Press, 2001).

Donald Rumsfeld, *Known and Unknown: A Memoir* (Sentinel, 2011).

Kathleen H. Hicks, "Civilian Control of the Armed Forces," Statement Before the Senate Armed Services Committee, January 10, 2017, https://www.armed-services.senate.gov/imo/media/doc/Hicks_01-10-17.pdf. (Video: <https://www.armed-services.senate.gov/hearings/17-01-10-civilian-control-of-the-armed-forces>, starting at 00:25:50)

Eliot A. Cohen, "Civilian Control of the Armed Forces," Testimony before the Senate Armed Services Committee, January 10, 2017, https://www.armed-services.senate.gov/imo/media/doc/Cohen_01-10-17.pdf. (Video: <https://www.armed-services.senate.gov/hearings/17-01-10-civilian-control-of-the-armed-forces>, starting at 00:34:45)

Patricia M. Shields, Sebastiaan Rietjens, and Joseph Soeters, eds., *Routledge Handbook of Research Methods in Military Studies* (Routledge, 2016)

"20 Strategic Studies and Its Critics," "22 The Practice of Strategy," and "23 Does Strategic Studies Have a Future?," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

National Institute for Defense Studies, NIDS China Security Report, .

Noboru Yamaguchi and David A. Welch, "Soldiers, Civilians, and Scholars: Making Sense of the Relationship between Civil-Military Relations and Foreign Policy," *Asian Perspective*, Vol. 29, No. 1 (2005) .

Robert Haddick, "This Week at War: The Long Death of the Powell Doctrine," *Foreign Policy*, March 5, 2010.

Thomas Berger, "From Sword to Chrysanthemum: Japans Culture of Anti-Militarism," *International Security*, Vo. 17, No. 4, Spring, 1993.

James Carroll, *House of War: The Pentagon and the Disastrous Rise of American Power* (Houghton Mifflin Harcourt, 2006).

Kenneth M. Pollack, *Armies of Sand: The Past, Present, and Future of Arab Military Effectiveness* (Oxford University Press, 2019).

Alex Abella, *Soldiers of Reason: The RAND Corporation and the Rise of the American Empire* (Houghton Mifflin Harcourt, 2008)

道下徳成「自衛隊の組織・装備の名称変更案——文民統制強化と透明性向上のために」『外交』Vol. 16、2012年12月、134～142頁、<https://www.slideshare.net/tujicas/2012-renaming-the-sdf-for-better-civilian-control-and-transparency-full-michishita>.

「道下徳成先生と対談 文民統制のための自衛隊改称案」細野豪志チャンネル、2020年5月7日、<https://youtu.be/gDY8R6IvtZ8>

Giuseppe Caforio and Marina Nuciari, eds., *Handbook of the Sociology of the Military* (Handbooks of Sociology and Social Research) (Springer, 2018).

Donald Alexander Downs and Ilia Murtazashvili, *Arms and the University: Military Presence and the Civic Education of Non-Military Students* (Cambridge University Press, 2012).

Dave Grossman and Loren W. Christensen, *On Combat: The Psychology and Physiology of Deadly Conflict in War and in Peace* (Human Factor Research Group, 2008)

Martha Raddatz, *The Long Road Home: A Story of War and Family* (Putnam Adult, 2007). (Also, watch *The Long Road Home*, an American drama miniseries created by Mikko Alanne)

David Finkel, *Thank You For Your Service* (Scribe Publications, 2013)

David Finkel, *The Good Soldiers* (Farrar Straus & Giroux, 2009)

Session 3: War and Peace in International Relations Theories

Required Reading:

Stephen M. Walt, "International Relations: One World, Many Theories," *Foreign Policy* (Spring 1998), pp. 29-46.

Narushige Michishita and Peter van der Hoest, "Another Cold War in Asia?" *Asan Forum*, July 19, 2013, <http://www.theasanforum.org/another-cold-war-in-asia/>.

Recommended Reading:

Jakub J. Grygiel and A. Wess Mitchell, *The Unquiet Frontier: Rising Rivals, Vulnerable Allies, and the Crisis of American Power* (Princeton University Press, 2016).

Geoffrey Blainey, *The Causes of War*, 3rd ed. (New York: The Free Press, 1988).

Michael Howard, *The Causes of Wars*, 2nd ed. (Cambridge, Massachusetts: Harvard University Press, 1983).

Michael E. Brown et al, eds., *Theories of War and Peace* (The MIT Press, 1998).

"5 The Causes of War," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

Richard K. Betts, ed., *Conflict After the Cold War: Arguments on Causes of War and Peace*, 5th ed. (Routledge, 2017).

Michael E. Brown, Sean M. Lynn-Jones, and Steven E. Miller, eds., *East Asian Security (An International Security Reader)* (The MIT Press, 1996).

G. John Ikenberry and Michael Mastanduno, eds., *International Relations Theory and the Asia-Pacific* (Columbia University Press, 2003)

Session 4: Strategic Concepts -- Offense, Defense, Compellence, and Deterrence

Required Reading:

Lawrence Freedman, ed., *Strategic Coercion: Concepts and Cases* (Oxford: Oxford University Press, 1998), pp. 1-60.

Recommended Reading:

Elbridge A. Colby, *The Strategy of Denial: American Defense in an Age of Great Power Conflict* (Yale

University Press, 2016).

Thomas C. Schelling, *Arms and Influence: With a New Preface and Afterword* (Yale University Press, 2008).

Edward N. Luttwak, *Strategy: The Logic of War and Peace*, revised and enlarged (Harvard University Press, 2002).

"4 Strategic Theory," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

Lawrence Freedman, *The Revolution in Strategic Affairs*, Adelphi Paper 318 (London: IISS, 1998).

Lawrence Freedman, *Transformation of Strategic Affairs*, Adelphi Paper 379 (Routledge, 2006).

Michael B. Oren, *Six Days of War: June 1967 and the Making of the Modern Middle East* (Oxford University Press, 2002).

Rodger Claire, *Raid on the Sun: Inside Israel's Secret Campaign that Denied Saddam the Bomb* (Broadway, 2004) (ロジャー・クレイア『イラク原子炉攻撃!』並木書房、2007年)

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PART II: NATIONAL SECURITY POLICY

Session 8: Japan's Military Power - Video Materials & Discussion

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道下徳成「『いずも』空母化がもたらす3つのメリット—新たな防衛大綱を評価する」『日経ビジネスオンライン』2018年12月21日。

Session 9: Country Security Policy (Presentation & Discussion)

Students are asked to get together and organize a country team (one team for one country) based on your nationality, and make a 5-minute presentation on the following questions:

(1) What are the two most important security challenges for your country?

(2) What are the two things that your country is doing to deal with these challenges?

Each team must select one representative and have her/him make the entire presentation. You can use handouts or slides (maps and etc) as long as you keep the 5-minute time limit.

After the presentations, we will open the floor for Q&A and discussion.

Session 10: North Korea's Nuclear/Missile Development and Japan's Response

Required Reading:

Narushige Michishita, North Korea's Military-Diplomatic Campaigns, 1966-2008 (London: Routledge, 2009), chapter 9. (韓国語版: 『북한의 벼랑 끝 외교사, 1966-2013 년』 이원경 옮김, 한울, 2014 년, 제 9 장. 日本語版: 『北朝鮮 瀬戸際外交の歴史、1966～2012 年』 ミネルヴァ書房、2013 年、第 9 章)

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Ryo Hinata-Yamaguchi, *Defense Planning and Readiness of North Korea: Armed to Rule* (Routledge, 2021).

Session 11: The Rise of China and Japan's Response

Required Reading:

Narushige Michishita, "Japan's Grand Strategy for a Free and Open Indo-Pacific," *The Oxford Handbook of Japanese Politics* (Oxford University Press, 2021).

Narushige Michishita, "Japans New National Security Strategy: Getting Committed to the Defense of Taiwan," Center for Strategic and International Studies, June 2023, [https://csis-website-prod.s3.amazonaws.com/s3fs-public/2023-](https://csis-website-prod.s3.amazonaws.com/s3fs-public/2023-06/230608_Michishita_Strategic_Japan.pdf?VersionId=E_uemDUdnuXRdf3AJtOFC.Mek89mmlSM)

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Andrew Oros and Yuki Tatsumi, *Global Security Watch: Japan* (Praeger, 2010).

National Institute for Defense Studies, *NIDS China Security Report*, .

Narushige Michishita, "Deciphering China's Security Intentions: The Japanese Debate," in Gilbert Rozman, ed., *Joint U.S.-Korea Academic Studies*, Vol. 27, 2016, http://www.keia.org/sites/default/files/publications/final_kei_jointus-korea_2016_161010.pdf.

Narushige Michishita, "Japan's Grand Strategy for a Free and Open Indo-Pacific," *The Oxford Handbook of Japanese Politics* (Oxford University Press, forthcoming).

道下徳成「第8章 インド太平洋地域のパワーシフト—中国の台頭と日本の対応」庄司潤一郎、石津朋之編著『地政学原論』日本経済新聞出版社、2020年。

Robert Spalding, *Stealth War: How China Took Over While Americas Elite Slept* (Portfolio, 2019)

出入管理庁撮影『尖閣列島写真集』1970年、
<https://www.cas.go.jp/jp/ryodo/shiryo/senkaku/detail/s1970070000103/s1970070000103-p02.pdf>

Narushige Michishita, "Cooperate and compete: Abe's new approach to China," *Straits Times*, November 13, 2018, p. A17.

Narushige Michishita, "Land of setting sun meets rising dragon," *Straits Times*, October 3, 2012, p. A22.

Gennifer Weisenfeld, *Gas Mask Nation: Visualizing Civil Air Defense in Wartime Japan* (University of Chicago Press, 2023).

Session 12: U.S.-Japan Alliance

Required Reading:

"The U.S.-Japan Alliance," January 6, 2023, <https://sgp.fas.org/crs/row/RL33436.pdf>.

"U.S. Defense Infrastructure in the Indo-Pacific: Background and Issues for Congress," Congressional Research Service, June 6, 2023, <https://crsreports.congress.gov/product/pdf/R/R47589>.

Stephen M. Walt, "Why Alliances Endure or Collapse," *Survival*, vol. 39, no. 1 (1997), pp. 156-179.

Narushige Michishita, Peter M. Swartz, and David F. Winkler, *Lessons of the Cold War in the Pacific: U.S. Maritime Strategy, Crisis Prevention, and Japan's Role* (Woodrow Wilson Center, 2016), https://www.wilsoncenter.org/sites/default/files/media/documents/publication/lessons_of_the_cold_war_in_the_pacific_one_page.pdf.

Recommended Reading:

United States Government Accountability Office (GAO), "Burden Sharing: Benefits and Costs Associated with

the U.S. Military Presence in Japan and South Korea," Report to Congressional Committees, GAO-21-270, March 2021, <https://www.gao.gov/assets/72>

3. Grading :

Final exam (100%)

A 60-minute in-class closed-book written exam

[Grading Criteria]

A : Achieved the goal at a high level

B : Achieved the goal at a satisfactory level

C : Achieved the goal at a generally acceptable level

D : Achieved the goal at a minimum acceptable level

E : Did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

See Section 2

5. Software Used in Lectures (If not applicable, it can be left blank.) :

Zoom when offered online.

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV2500J

講義名[日本語(英語)] / Class Name : 公共経営と制度・組織設計

担当者（フルネーム） / Course instructor (Full Name) : TBA

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/木 Thu/3

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

春学期の GOV2520 では中央省庁に焦点を当てたが、本授業では、公共組織、公共政策の全体像を理解するために、中央省庁と連携する広い意味でのパブリックセクターの経営、組織・制度等に焦点を当てる。行政改革、民営化などにより、公共経営がどう変化しているか、行政法の私法化現象にどう対応するかなどを学ぶ。また、改革された公共経営が、その後、どのようになっているか、あるいは、改革を実現するポイント、改革の難しさなども併せて説明する。受講者の構成に応じて、学生からの発表、当該分野に精通したゲスト・スピーカーを呼ぶなど、公共の在り方について掘り下げ、より実践的に考える機会となることを目指す。

SDGs については、各国の特徴、競争力ランキングなどの授業の際に簡単に紹介する。本講義の担当教員は国連統計委員会への参加経験を有し、SDGs 目標の進捗を測る指標のとりまとめに関心がある。ただし、この授業では、各分野の詳しい話はしない。

【到達目標】

- ・ 公共政策に係る広範な主体について、省庁との関係、組織の特性、役割を理解する。

2. 各授業のテーマ：

○イントロダクション

○中央省庁に関する公共経営と制度・組織設計の基本的枠組み：行政組織法定主義、官と民との組織原理の違い（行政のコアバリュー）、

中央省庁等改革における企画と実施（独立行政法人制度の創設、実施庁の創設）

○行政機関に求められる規律（情報公開（開示／不開示）、行政手続）、コーポレート・ガバナンス

○民営化した J R ・ N T T の現在

○諸外国政府の基本組織、公務員制度、英国の EXECUTIVE AGENCY

○独立行政法人における経営と制度・組織設計

○特殊法人・認可法人（1）：NHK、日本銀行

○特殊法人・認可法人（2）：社会保険庁から日本年金機構への改革について

○公益法人、N P O

○P P P の現在、行政法の私法化

○組織文化の変革、失敗学

○各国の社会文化（ホフステード）と各種国際ランキング

○学生発表（2回程度）

○予備・まとめ

（注）初回授業の参加者との対話により、内容、スケジュール、ゲスト・スピーカーなどについて調整を行う。

【授業外学習】

講義では日々の出来事を取り上げることも多いので、政治、行政、社会などに関する報道（テレビ、新聞、ネット等）に関心を持つこと。授業で用いる教材、資料は2日前に Teams に upload 予定。あらかじめ予習しておくこと。講義後には、授業で示した参考文献を読むなどして授業の内容を定着させること。

3. 成績の評価方法：

- ・授業への出席及び貢献（発言、質問）：50%
- ・試験：数回のミニ・ペーパー、期末のペーパー：50%

【成績評価基準】

- A：到達目標について高い水準で達成している
- B：到達目標について満足できる水準で達成している
- C：到達目標について概ね達成している
- D：到達目標について最低限の水準は達成している
- E：到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

本講義は、近年の行政の変化を実務的観点から説明するものであり、一冊の教科書に沿って進めるものではない。毎回、担当教員が準備するハンドアウトを基本素材とする。

（参考書）

Yoshimuta, T, "The General Structure of Japanese Bureaucracy and Administrative Jurisdiction under the Current Law." In Nakabayashi, M / Tanaka, H(eds.), Handbook of Japanese Public Administration and Bureaucracy. (Published in March 2024)

C・ポリット／G・ブカルト [著]（縣公一郎・稲継裕昭 [監訳]）「行政改革の国際比較」（ミネルバ書房）

OECD Government at a Glance 2023

高橋 滋, 斎藤 誠他 「条解 行政情報関連三法—公文書管理法・行政機関情報公開法・個人情報保護法 第2版 (条解シリーズ)」(授業では不開示要件を扱うので、講師が執筆した、外交・安全保障分野の不開示該当性を参考にするとよい)

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

インタラクティブな授業運営を目指す。

第3回（10月24日（木））は講師出張のため、受講者の都合のよい時間に補講を行う。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV3220E

講義名[日本語(英語)] / Class Name : Politics of Global Money and Finance

担当者 (フルネーム) / Course instructor (Full Name) : CHEY Hyoung-kyu/CHEY Hyoung-kyu

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/1

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course addresses the international political economy of money and finance, a central issue area in International Political Economy (IPE). The focus of the course is not on the technical aspects of international financial market operations or international finance theories, but rather on the political and institutional contexts in which they function.

The course is broadly divided into three sections. In the first section, students will learn fundamental concepts and major theoretical issues in IPE, with specific reference to monetary and financial issues in the world economy. In the second section, students will explore the historical development of the international monetary and financial system, dating from the era of the classical gold standard. In the final section, students will address central issues relating to the international political economy of money and finance in the contemporary world.

The primary goals of the course are for students to develop a comprehensive understating of the political causes of the evolving structure of the international monetary and financial system over time and to enable them to effectively analyze and address the implications of this evolving structure for a nation's policy choices and for international and domestic politics.

Each class will consist of two parts. The first part will be a lecture by the instructor, and the second a seminar requiring the active participation of all students in discussing the major issues raised in the lecture. The lecture will account for about two-thirds of the length of each class, and the seminar the remainder.

This course is related to SDG Goals 9 (Industry, Innovation and Infrastructure) and 16 (Peace, Justice and Strong Institutions).

[Related Diploma Policy]

Young Leaders Program (YLP):

(2) Ability to conduct policy analysis and make practical policy recommendations to solve problems with extensive knowledge on public policy.

(4) Ability to analyze specific policy issues, formulate policy recommendations on them, and present them.

One-year Master's Program of Public Policy (MP1):

(4) Ability to analyze international relations theories from the political and administrative perspectives at home and abroad, and to make practical policy recommendations for problem solving based on this analysis.

(5) Ability to analyze interdisciplinary and broad public policies and make practical policy recommendations for problem solving.

Two-year Master's Program of Public Policy (MP2):

(4) Ability to analyze international relations theories from the political and administrative perspectives at home and abroad, and to make practical policy recommendations for problem solving based on this analysis.

(5) Ability to analyze interdisciplinary and broad public policies and make practical policy recommendations for problem solving.

Macroeconomic Policy Programs (MEP1 and MEP2):

(5) Ability to have a deep understanding of and ability to respond to different values, systems, cultures, and societies, and to play an active role as a leader in a global society.

Public Finance Program (PF):

(3) The ability to understand the administrative, institutional, and legal aspects in the historical context surrounding public policies in general, tax and customs policies in particular, so as to provide practical solutions in reforming tax or customs administration in respective countries.

(5) The ability to have a deep understanding of different values and systems in a global society and to play an active role as a balanced leader.

Economics, Planning and Public Policy Program:

(1) The ability to conduct policy analysis to resolve problems based on academic analysis from multiple perspectives, supported by a broad knowledge of public policy.

(2) The ability to make policy recommendations for practical solutions based on a deep understanding of the current state of theory and practice.

(3) The ability to analyze related data, etc. on an issue, using tools in economics, political science, public administration, etc., to compile and present research papers and policy proposals.

2. Course Outline :

Section I: Concepts and Theories

Week 1. What Is Money?

Week 2. Politics of Money

Week 3. Basic Economic Concepts

Week 4. Major IPE Theories

Section II: History of the International Monetary and Financial System

Week 5. The International Gold Standard

Week 6. Monetary Disorder in the Interwar Period

Week 7. The Bretton Woods System

Week 8. The International Monetary System since 1973, and Exchange Rate Politics

Section III: Contemporary Issues

Week 9. The Globalization of Finance: Its Causes and Consequences

Week 10. Financial Crises and International Financial Regulation

Week 11. The political Economy of International Currencies (I)

Week 12. The political Economy of International Currencies (II)

Week 13. Cryptocurrencies

Week 14. Central Bank Digital Currencies

Week 15. Course Review and Exam

As part of the out-of-class learning activities, students are expected to complete the required readings for each class and are encouraged to review the recommended readings beforehand. Additionally, they should thoroughly review the lecture materials and reflect on the issues discussed in class following each session.

3. Grading :

Evaluation for the course will be based on two components: class participation, including contributions to class discussion (30%), and one in-class exam (70%).

Grades:

A: Outstanding achievement of the course goals.

B: Superior achievement of the course goals.

C: Satisfactory achievement of the course goals.

D: Minimum acceptable achievement of the course goals.

E: Achievement of the course goals is below the acceptable level.

4. Textbooks and References (4-1:Required 4-2:Others)

Introductory texts:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press).

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapters 10 to 15.

Week 1. What Is Money?

Required readings:

Ingham, Geoffrey. (2004). *The Nature of Money* (Cambridge: Polity Press), Chapter 1.

Peacock, Mark. (2013). *Introducing Money* (London and New York: Routledge), Chapters 1 and 2.

Recommended readings:

Mankiw, N. Gregory. (2017). Principles of Economics (South-Western College), 8th edition, Chapters 29, 30 and 35.

Ingham, Geoffrey. (2004). The Nature of Money (Cambridge: Polity Press), Introduction, and Chapters 2 and 4.

Menger, Carl. (1892). "On the Origins of Money," Economic Journal, 2: 239-55.

Knapp, Georg Friedrich. (2003 [1924]). The State Theory of Money, San Diego, CA: Simon Publications.

Innes, A. Mitchell. (1913). "What Is Money," The Banking Law Journal, May: 377-408.

Week 2. Politics of Money

Required readings:

Cohen, Benjamin J. (2015). Currency Power: Understanding Monetary Rivalry (Princeton: Princeton University Press), Chapter 2.

Armijo, Leslie Elliott, Daniel C. Tirone, and Hyoung-kyu Chey. (2020). "The Monetary and Financial Powers of States: Theory, Dataset, and Observations on the Trajectory of American Dominance," New Political Economy, 25(2): 174-194.

Recommended readings:

Kirshner, Jonathan. (2003). "Inescapable Politics of Money," in Monetary Orders: Ambiguous Economics, Ubiquitous Politics, edited by Jonathan Kirshner (Ithaca and London: Cornell University Press), pp. 3-24.

Week 3. Key Economic Concepts

Required readings:

Oatley, Thomas. (2023). International Political Economy, 7th edition (New York and London: Routledge), Chapter 10.

Walter, Andrew and Gautam Sen. (2009). Analyzing the Global Political Economy (Princeton, NJ: Princeton University Press), Chapter 4.

Recommended readings:

Mankiw, N. Gregory. (2017). Principles of Economics (South-Western College Publication), 8th edition, Chapter 31.

Week 4. Major IPE Theories

Required readings:

Oatley, Thomas. (2023). International Political Economy, 7th edition (New York and London: Routledge), Chapter 1.

Broz, J. Lawrence, and Jeffrey Frieden. (2001). "The Political Economy of International Monetary Relations," *Annual Review of Political Science* 4:317-43.

Recommended readings:

Cohen, Benjamin, J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press).

Frieden, Jeffrey A., David A. Lake and J. Lawrence Broz., eds. (2017). *International Political Economy: Perspectives on Global Power and Wealth*, 6th edition (New York: W. W. Norton & Company), Introduction.

Week 5. The International Gold Standard

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 2.

Broz, Lawrence. (1997). "The Domestic Politics of International Monetary Order: The Gold Standard," in *Contested Social Orders and International Politics* edited by David Skidmore (Nashville: Vanderbilt University Press), pp. 53-91.

Recommended readings:

Knafo, Samuel. (2011). "The Gold Standard and the Origins of the Modern International Monetary System," *Review of International Political Economy*, 13(1): 78-102.

Week 6. Monetary Disorder in the Interwar Period

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 3.

Recommended readings:

Simmons, Beth A. (1994). *Who Adjust? Domestic Sources of Foreign Economic Policy during the Interwar Years* (Princeton: Princeton University Press).

Morrison, James Ashley. (2016). "Shocking Intellectual Austerity: The Role of Ideas in the Demise of the Gold Standard in Britain," *International Organization*, 70(1): 175-207.

Week 7. The Bretton Woods System

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 4.

Ruggie, John Gerard. (1982). "International Regimes, Transactions and Change: Embedded Liberalism in the Postwar Economic Order," *International Organization* 36(2): 379-415.

Helleiner, Eric. (1996). *States and Reemergence of Global Finance: From Bretton Woods to the 1990s* (Ithaca: Cornell University Press), Chapters 2 and 3.

Recommended readings:

Ikenberry, G. John. (1992). "A World Economy Restored: Expert Consensus and the Anglo-American Postwar Settlement," *International Organization* 46(1): 289-321.

Helleiner, Eric. (2019). "The Life and Times of Embedded Liberalism: Legacies and Innovations since Bretton Woods," *Review of International Political Economy*, 26 (6): 1112-1135.

Week 8. The International Monetary System since 1973, and Exchange Rate Politics

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 5.

Broz, J. Lawrence and Jeffrey A. Frieden. (2006). "The Political Economy of Exchange Rates," in *Oxford Handbook of Political Economy*, edited by Barry Weingast, and Donald Wittma (Oxford: Oxford University Press), pp. 587-597. Available at <http://scholar.harvard.edu/files/jfrieden/files/PEofERHandbook.pdf>

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapters 11-13.

Recommended readings:

Quinn, Dennis P., Thomas Sattler and Stephen Weymouth. (2023). "Do Exchange Rates Influence Voting? Evidence from Elections and Survey Experiments in Democracies," *International Organization* 77 (4): 789-823.

Chey, Hyoung-kyu. (2009). "A Political Economic Critique on the Theory of Optimum Currency Areas, and the Implications for East Asia," *The World Economy* 32(12): 1685-1705.

Steinberg, David. (2015) *Demanding Devaluation: Exchange Rate Politics in the Developing World* (Ithaca: Cornell University Press), Introduction.

Bernhard, William, and David Leblang. (1999). "Democratic Institutions and Exchange-Rate Commitments," *International Organization* 53(1): 71-97.

Frieden, Jeffrey A. (1991). "Invested Interests: The Politics of National Economic Policy in a World of Global Finance," *International Organization* 45(4): 425-451.

Week 9: The Globalization of Finance: Its Causes and Consequences

Required readings:

Walter, Andrew and Gautam Sen. (2009). *Analyzing the Global Political Economy* (Princeton, NJ: Princeton University Press), Chapters 4 and 5.

Cohen, Benjamin. (1996). "Phoenix Risen: The Resurrection of Global Finance," *World Politics* 48(2): 268-296.

Recommended readings:

Simmons, Beth A., and Zachary Elkins. (2004). "The Globalization of Liberalization: Policy Diffusion in the International Political Economy," *American Political Science Review* 98(1): 171-189.

Chwieroth, Jeffrey. (2007). "Neoliberal Economists and Capital Account Liberalization in Emerging Markets," *International Organization*, 61(2): 443-463.

Pepinsky, Thomas, B. (2013). "The Domestic Politics of Financial Internationalization in the Developing World," *Review of International Political Economy*, 20(4): 848-880.

Week 10. Financial Crises and International Financial Regulation

Required readings:

Helleiner, Eric and Stefano Pagliari. (2011). "The End of an Era in International Financial Regulation? A Post-Crisis Research Agenda," *International Organization* 65(1): 169-200.

Young, Kevin L. (2012). "Transnational Regulatory Capture? An Empirical Examination of the Transnational Lobbying of the Basel Committee on Banking Supervision," *Review of International Political Economy*, 19(4): 663-688.

Chey, Hyoung-kyu. (2014). *International Harmonization of Financial Regulation? The Politics of Global Diffusion of Basel Capital Accord* (London and New York: Routledge), Chapter 1.

Recommended readings:

Helleiner, Eric. (2014). *The Status Quo Crisis: Global Financial Governance after the 2008 Meltdown* (Oxford: Oxford University Press).

Drezner, Daniel W. (2014). *The System Worked: How the World Stopped Another Great Depression* (Oxford: Oxford University Press).

Chey, Hyoung-kyu. (2007). "Do Markets Enhance Convergence on International Standards? The Case of Financial Regulation," *Regulation & Governance* 1(4): 295-311.

Chey, Hyoung-kyu. (2006). "Explaining Cosmetic Compliance with International Regulatory Regimes: The Implementation of the Basle Accord in Japan, 1998-2003," *New Political Economy*, 11(2): 271-289.

Chey, Hyoung-kyu. (2016). "International Financial Standards and Emerging Economies since the Global Financial Crisis," in Randall C. Henning and Andrew Walter, eds., *Global Financial Governance Confronts the Rising Powers* (Waterloo: Center for International Governance Innovation, 2016), pp. 61-85. Also, available at <https://www.cigionline.org/publications/changing-global-financial-governance-international-financial-standards-and-emerging/>

Jones, Emily and Alexandra O Zeitz. (2019). "Regulatory Convergence in the Financial Periphery: How Interdependence Shapes Regulators' Decisions," *International Studies Quarterly*, 63(4): 908-922.

Week 11. The Political Economy of International Currencies (I)

Required readings:

- Chey, Hyoung-kyu. (2012). "Theories of International Currencies and the Future of the World Economy," *International Studies Review* 14(1), 51-77.
- Cohen, Benjamin J. (2015). *Currency Power: Understanding Monetary Rivalry* (Princeton: Princeton University Press), Chapters 1 to 6.
- Cohen, Benjamin J. (2019). *Currency Statecraft: Monetary Rivalry and Geopolitical Ambition* (Chicago and London: University of Chicago Press).
- Chey, Hyoung-kyu. (2022). *The International Political Economy of the Renminbi Currency Internationalization and Reactive Currency Statecraft* (Routledge), Chapters 1 and 2.

Recommended readings:

- Eichengreen, Barry. (2011). *Exorbitant Privilege: The Rise and Fall of the Dollar and the Future of the International Monetary System* (Oxford: Oxford University Press).
- Chey, Hyoung-kyu. (2019). "The International Politics of Reactive Currency Statecraft: Japan's Reaction to the Rise of the Chinese Renminbi," *New Political Economy* 24(4): 510-529.
- Chey, Hyoung-kyu and Yu Wai Vic Li. (2020). "Chinese Domestic Politics and the Internationalization of the Renminbi," *Political Science Quarterly*, 135(1): 37-65.

Week 12. The Political Economy of International Currencies (II)

Required readings:

- Chey, Hyoung-kyu. (2013). "Can the Renminbi Rise as a Global Currency? The Political Economy of Currency Internationalization," *Asian Survey* 53(2): 348-68.
- Cohen, Benjamin J. (2015). *Currency Power: Understanding Monetary Rivalry* (Princeton: Princeton University Press), Chapters 7 to 9.
- Chey, Hyoung-kyu. (2022). *The International Political Economy of the Renminbi Currency Internationalization and Reactive Currency Statecraft* (Routledge), Chapters 3 and 8.
- McDowell, Daniel. (2021). "Financial sanctions and political risk in the international currency system," *Review of International Political Economy*, 28(3): 635-661.

Recommended readings:

- Chey, Hyoung-kyu, Geun-Young Kim and Dong Hyun Lee. (2019). "Which Foreign States Support the Global Use of the Chinese Renminbi? The International Political Economy of Currency Internationalization," *The World Economy* 42(8): 2403-2426.
- Chey, Hyoung-kyu and Minchung Hsu. (2020). "The Impacts of Policy Infrastructures on the International Use of the Chinese Renminbi: A Cross-Country Analysis," *Asian Survey* 60(2).
- Germain, Randall, and Herman Schwartz. (2014). "The Political Economy of Failure: The Euro as an International Currency," *Review of International Political Economy* 21(5): 1095-1122.

McDowell, Daniel. (2023). *Bucking the Buck: US Financial Sanctions and the International Backlash against the Dollar* (Oxford: Oxford University Press).

Week 13. Cryptocurrencies

Required readings:

Chey, Hyoung-kyu. (2023). "Cryptocurrencies and the IPE of Money: An Agenda for Research," *Review of International Political Economy*, 30(4): 1605-1620.

Ba, Heather-Leigh and omer Faruk Şen. (2024). "Explaining Variation in National Cryptocurrency Regulation: Implications for the Global Political Economy," *Review of International Political Economy*, DOI: 10.1080/09692290.2024.2325403.

Recommended readings:

Prasad, Eswar S. (2021). *The Future of Money: How the Digital Revolution Is Transforming Currencies and Finance* (Cambridge, MA and London: The Belknap Press of Harvard University Press), Part II.

Week 14. Central Bank Digital Currencies

Required readings:

Chia, Colin and Eric Helleiner. (2024). "Central Bank Digital Currencies and the Future of Monetary Sovereignty," *Finance and Space*, 1(1): 35-48.

Peruffo, Luiza, Andr e Moreira Cunha and Andr s Ernesto Ferrari Haines. (2023). "China's Central Bank Digital Currency (CBDC): An Assessment of Money and Power Relations," *New Political Economy*, 28(6): 881-896.

Recommended readings:

Prasad, Eswar S. (2021). *The Future of Money: How the Digital Revolution Is Transforming Currencies and Finance* (Cambridge, MA and London: The Belknap Press of Harvard University Press), Part III.

Bank of Canada, European Central Bank, Bank of Japan, Sveriges Riksbank, Swiss National Bank, Bank of England, Board of Governors Federal Reserve System and Bank for International Settlements. (2020). *Central Bank Digital Currencies: Foundational Principles and Core Features*, Basel: Bank for International Settlements.

Deng, Wei Ru (Harry). (2023). "Negotiating Currency Internationalization: An Infrastructural Analysis of the Digital RMB," *Finance and Society*, EarlyView.

International Monetary Fund. (2023). *Central Bank Digital Currency Virtual Handbook*. Available at <https://www.imf.org/en/Topics/fintech/central-bank-digital-currency/virtual->

handbook?utm_medium=email&utm_source=govdelivery.

European Central Bank. (2020). Report on a Digital Euro. Available at <https://www.ecb.europa.eu/euro/html/digitaleuro-report.en.html>.

Week 15. Course Review and Exam

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

The syllabus may be updated later.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV6210E

講義名[日本語(英語)] / Class Name : International Political Economy Workshop

担当者 (フルネーム) / Course instructor (Full Name) : CHEY Hyoungh-kyu/CHEY Hyoungh-kyu

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course is a PhD seminar course, which delves into the major theoretical debates in the study of International Political Economy (IPE) through the intensive reading and discussion of select works.

Students will learn fundamental methodological issues, as well as the major perspectives and theoretical approaches in IPE.

The primary goals of the course are for students to develop and acquire theoretical and methodological capacities for the study of IPE and to enable them to utilize these skills in designing their own research frameworks.

This course is related to SDG Goal 16 (Peace, Justice and Strong Institutions).

[Related Diploma Policy]

GRIPS Global Governance Program (G-cube):

- (1) Ability to plan, formulate, implement, and analyze policies from a broad perspective, based on expert knowledge in economics and politics, while being mindful of history and the reality on the ground.
- (2) Ability to explore solutions to a variety of policy issues from a long-term, multi-faceted perspective.

2. Course Outline :

Week 1. Introduction of the Course and Organization of Seminars

Week 2. How to Design Causal Inferences (I)

Week 3. How to Design Causal Inferences (II)

Week 4. Case Study Methods

Week 5. Qualitative vs. Quantitative Research

Week 6: Traditional Approaches to IPE: Mercantilism, Economic Liberalism and Marxism

Week 7: Systemic Approaches to IPE (I): Realism

Week 8: Systemic Approaches to IPE (II): Neoliberal Institutionalism

Week 9: Domestic Approaches to IPE (I): Interest-based Approach

Week 10: Domestic Approaches to IPE (II): Institutional Approach

Week 11: Transnational Approaches to IPE

Week 12: Rationalism vs. Constructivism

Week 13: American IPE vs. British IPE

Week 14: Globalizing IPE

Week 15: Student Presentations of PhD Research Proposals

As part of the out-of-class learning activities, students are expected to complete the required readings for each class and are encouraged to review the recommended readings beforehand. Additionally, they should reflect on the issues discussed in class following each session.

3. Grading :

Each student is required to submit a short essay (about two to three pages long) every week that addresses the week's discussion topics, and to deliver a certain number of presentations throughout the course. Evaluation for the course will be based on the essays (70%) and the presentations (30%).

Grades:

A: Outstanding achievement of the course goals.

B: Superior achievement of the course goals.

C: Satisfactory achievement of the course goals.

D: Minimum acceptable achievement of the course goals.

E: Achievement of the course goals is below the acceptable level.

4. Textbooks and References (4-1:Required 4-2:Others)

Basic Texts:

King, Gary, Robert O. Keohane and Sidney Verba. (2021). *Designing Social Inquiry: Scientific Inference in Qualitative Research* (Princeton: Princeton University Press).

Johnson, Janet Buttolph, H. T. Reynolds and Jason D. Mycoff. (2020). *Political Science Research Methods*, 9th Edition (Sage).

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge).

Ravenhill, John., ed. (2020). *Global Political Economy*, 6th edition (Oxford: Oxford University Press).

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press).

Seminar Questions and Suggested Readings:

Week 1. Introduction of the Course and Organization of the Seminars

Week 2. How to Design Causal Inferences (I)

Q1: What are the two criteria suggested by King et al. (2021) for choosing a research question? Does your own research question satisfy the two criteria? Are the two criteria appropriate?

Q2: What are the five rules suggested by King et al. (2021) for constructing causal theories? Does your

hypothesis (or theory) comply with these five rules? Are the rules desirable?

Required readings:

King, Gary, Robert O. Keohane and Sidney Verba. (2021). *Designing Social Inquiry: Scientific Inference in Qualitative Research* (Princeton: Princeton University Press), Chapters 1, 2 and 3.

Recommended readings:

Brady, Henry E. and David Collier, eds. (2010). *Rethinking Social Inquiry: Diverse Tools, Shared Standards*, 2nd edition (Lanham: Rowman & Littlefield Publishers), Chapters 2, 3, 5, 8 and 9.

Evera, Stephen Van. (1997). *Guide to Methods for Students of Political Science* (Cornell University Press), Chapter 1.

Johnson, Janet Buttolph, H. T. Reynolds and Jason D. Mycoff. (2020). *Political Science Research Methods*, 9th edition (Sage), Chapters 3, 4 and 6.

Pollock III, Philip H. and Barry C. Edwards. (2020). *The Essentials of Political Analysis*, 6th edition (Sage), Chapter 3.

Kellstedt, Paul M. and Guy D. Whitten. (2018). *The Fundamentals of Political Science Research*, 3rd edition (Cambridge University Press), Chapters 1, 2 and 3.

Week 3. How to Design Causal Inferences (II)

Q1: What are the two main characteristics presented by King et al. (2021) of "indeterminate" research designs? Is your own research design not an "indeterminate" one?

Q2: What are the major rules suggested by King et al (2021) for selecting cases for study? Does your own case selection comply with these rules? Are the rules appropriate?

Q3: What is the "omitted variable" problem? Does your own research framework not face this problem? How can we solve the problem?

Q4: What is the "endogeneity problem?" Does your own research framework not face this problem? How can we solve the problem?

Q5: What are the major methods suggested by King et al (2021) for increasing the number of observations made in the conduct of research? How can you increase the number of observations for your own research?

Q6: What is "counterfactual analysis"? Will it be necessary in your own research to adopt a counterfactual analysis? If so, how can you do so?

Q7: How do you "operationalize" the explanatory and the dependent variables of your own research?

Required readings:

King, Gary, Robert O. Keohane and Sidney Verba. (2021). *Designing Social Inquiry: Scientific Inference in Qualitative Research* (Princeton: Princeton University Press), Chapters 4, 5 and 6.

Fearon, James D. (1991). "Counterfactuals and Hypothesis Testing in Political Science," *World Politics*, 43 (2): 169-195.

Recommended readings:

Brady, Henry E. and David Collier, eds. (2010). *Rethinking Social Inquiry: Diverse Tools, Shared Standards*, 2nd edition (Lanham: Rowman & Littlefield Publishers), Chapters 1, 3, 8 and 9.

Evera, Stephen Van. (1997). *Guide to Methods for Students of Political Science* (Cornell University Press), Chapter 2.

Kellstedt, Paul M. and Guy D. Whitten. (2018). *The Fundamentals of Political Science Research*, 3rd edition (Cambridge University Press), Chapters 3 and 4.

Week 4. Case Study Methods

Q1: What are the main strengths and weaknesses of single case studies?

Q1: What are the main strengths and weaknesses of comparative case studies?

Q2: What are the "method of difference" and the "method of agreement"?

Q3: What are the "most similar system design" and the "most different system design"?

Q4: Which case study method can be best applied to your own research?

Required readings:

King, Gary, Robert O. Keohane and Sidney Verba. (2021). *Designing Social Inquiry: Scientific Inference in Qualitative Research* (Princeton: Princeton University Press), pp. 199-230.

Odell, John S. (2001). "Case Study Methods in International Political Economy," *International Studies Perspectives* 2: 161-176.

Lijphart, Arend. (1971). "Comparative Politics and the Comparative Method," *The American Political Science Review*, 65(3): 682-693.

Prezeworski, Adam and Henry Teune. (1970). *The Logic of Comparative Social Inquiry* (John Wiley & Sons), Chapter 2.

Recommended readings:

Gerring, John. (2011). "The Case Study: What It Is and What It Does." In *The Oxford Handbook of Political Science*, edited by Robert E. Goodin (Oxford University Press), DOI: 10.1093/oxfordhb/9780199604456.013.0051.

Evera, Stephen Van. (1997). *Guide to Methods for Students of Political Science* (Cornell University Press), Chapter 2.

Johnson, Janet Buttolph, H. T. Reynolds and Jason D. Mycoff. (2020). *Political Science Research Methods*, 9th Edition (Sage), Chapter 7.

Week 5. Qualitative vs. Quantitative Research

Q: What are the main advantages and limitations of qualitative methods?

Q: What are the main advantages and limitations of quantitative methods?

Q: Which one between qualitative and quantitative methods better suits your own research subject, and why is that so?

Required readings:

King, Gary, Robert O. Keohane and Sidney Verba. (2021). *Designing Social Inquiry: Scientific Inference in Qualitative Research* (Princeton: Princeton University Press), Chapter 1.

Johnson, Janet Buttolph, H. T. Reynolds and Jason D. Mycoff. (2020). *Political Science Research Methods*, 9th Edition (Sage), Chapters 6, 7 and 9.

Recommended readings:

Brady, Henry E. and David Collier, eds. (2010). *Rethinking Social Inquiry: Diverse Tools, Shared Standards*, 2nd edition (Lanham: Rowman & Littlefield Publishers), Chapters 1, 3 to 9 and 13.

Evera, Stephen Van. (1997). *Guide to Methods for Students of Political Science* (Cornell University Press), Chapter 2.

Week 6: Traditional Approaches to IPE: Mercantilism, Economic Liberalism and Marxism

Q: What are the main elements of mercantilism? Is it still relevant today?

Q: How do mercantilist views and/or studies relate to your own research subject? What are the major arguments of mercantilist views and/or studies that pertain to your own research subject?

Q: What are the main elements of economic liberalism? Is it still relevant today?

Q: Do economic studies relate to your own research subject? What are the major arguments of economic views and/or studies that pertain to your own research subject?

Q: What are the main elements of Marxism? Is it still relevant today?

Q: How do Marxist views and/or studies relate to your own research subject? What are the major arguments of Marxist views and/or studies that pertain to your own research subject?

Required readings:

Gilpin, Robert. (1987). *The Political Economy of International Relations* (Princeton: Princeton University Press), Chapter 2.

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapter 1.

Watson, Matthew. (2020). "The Nineteenth-Century Roots of Theoretical Traditions in Global Political Economy." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 2.

Recommended readings:

Helleiner, Eric. (2023). *The Contested World Economy: The Deep and Global Roots of International Political*

Economy (Cambridge: Cambridge University Press), Chapters 2, 4 and 6.

Stahl, Rune Mller. (2019). "Economic Liberalism and the State: Dismantling the Myth of Naïve Laissez-Faire," *New Political Economy*, 24(4): 473-486.

Cox, Ronald W. (2020). "Marxism and IPE." In *Teaching Marx & Critical Theory in the 21st Century*, edited by Bryant William Sculos and Mary Caputi (Chicago, IL: Haymarket Books), Chapter 2.

Week 7: Systemic Approaches to IPE (I): Realism

Q: What are the main elements of hegemonic stability theory? What are its strengths and weaknesses?

Q: How do realist theories relate to your own research subject? What are the major realist theories that pertain to your own research subject?

Required readings:

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press), Chapter 3.

Kirshner, Jonathan. (2009). "Realist Political Economy: Traditional Themes and Contemporary Challenges," in *Routledge Handbook of International Political Economy (IPE): IPE as a Global Conversation*, edited by M. Blyth (London and New York: Routledge), pp. 36-47.

Krasner, Stephen. (1976). "State Power and the Structure of International Trade," *World Politics* 23 (3): 317-347.

Recommended readings:

Aggarwal, Vinod K. and Cedric Dupont. (2020). "Cooperation and Conflict in the Global Political Economy," in *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 3.

Lake, David. (1993). "Leadership, Hegemony, and the International Economy: Naked Emperor or Tattered Monarch with Potential?" *International Studies Quarterly* 37 (4): 459-489.

Gavris, Maria. (2021). "Revisiting the Fallacies in Hegemonic Stability Theory in Light of the 2007-2008 Crisis: The Theory's Hollow Conceptualization of Hegemony," *Review of International Political Economy*, 28(3): 739-760.

Week 8: Systemic Approaches to IPE (II): Neoliberal Institutionalism

Q: What are the main elements of neoliberal institutionalism? What are its strengths and weaknesses?

Q: How do neoliberal institutionalist theories relate to your own research subject? What are the major neoliberal institutionalist theories that pertain to your own research subject?

Required readings:

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press), Chapter 4.

Keohane, Robert O. (1984). *After Hegemony: Cooperation and Discord in the World Political Economy* (Princeton: Princeton University Press).

Recommended readings:

Aggarwal, Vinod K. and Cedric Dupont. (2020). "Cooperation and Conflict in the Global Political Economy," in *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford: Oxford University Press), Chapter 3.

Lall, Ranjit. (2017). "Beyond Institutional Design: Explaining the Performance of International Organizations," *International Organization*, 71(2): 245-280.

Week 9: Domestic Approaches to IPE (I): Interest-based Approach

Q: What are the main elements of the interest-based approach? What are its strengths and weaknesses?

Q: How do interest-based theories relate to your own research subject? What are the major interest-based theories that pertain to your own research subject?

Required readings:

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press), Chapter 5.

Hiscox, Michael J. (2020). "The Domestic Sources of Foreign Economic Policies." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford University Press), Chapter 4.

Frieden, Jeff. (1988). "Sectoral Conflict and Foreign Economic Policy, 1914-1940," *International Organization* 42(1):5990.

Recommended readings:

Milner, Helen V. and Robert O. Keohane. (1996). "Internationalization and Domestic Politics: An Introduction." In *Internationalization and Domestic Politics*, edited by Robert O. Keohane and Helen V. Milner (Cambridge University Press).

Frieden, Jeffrey A., and Ronald Rogowski. (1996). "The Impact of the International Economy on National Policies: An Analytical Overview." In *Internationalization and Domestic Politics*, edited by Robert O. Keohane and Helen V. Milner (Cambridge University Press).

Kim, In Song, Helen V. Milner, Thomas Bernauer, Iain Osgood, Gabriele Spilker and Dustin Tingley. (2019). "Firms and Global Value Chains: Identifying Firms' Multidimensional Trade Preferences," *International Studies Quarterly*, 63(1): 153-167.

Week 10: Domestic Approaches to IPE (II): Institutional Approach

Q: What are the main elements of the institutional approach? What are its strengths and weaknesses?

Q: How do institutional theories relate to your own research subject? What are the major institutional theories

that pertain to your own research subject?

Required readings:

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press), Chapter 5.

Hiscox, Michael J. (2020). "The Domestic Sources of Foreign Economic Policies." In *Global Political Economy*, edited by John Ravenhill, 6th edition (Oxford University Press), Chapter 4.

Rogowski, Ronald W. (1987). "Trade and the Variety of Democratic Institutions," *International Organization* 41(2):203-223.

Recommended readings:

Bernhard, William and David Leblang. (1999). "Democratic Institutions and Exchange-Rate Commitments," *International Organization* 53(1): 71-97.

Milner, Helen V. and Robert O. Keohane. (1996). "Internationalization and Domestic Politics: An Introduction." In *Internationalization and Domestic Politics*, edited by Robert O. Keohane and Helen V. Milner (Cambridge University Press).

Broz, J. Lawrence. (2002). "Political System Transparency and Monetary Commitment Regimes," *International Organization* 56(4): 861-887.

Hyde, Susan D. and Elizabeth N. Saunders. (2020). "Recapturing Regime Type in International Relations: Leaders, Institutions, and Agency Space," *International Organization*, 74(2): 363-395.

Week 11: Transnational Approaches to IPE

Q: What are the main elements of the transnational approach? What are its strengths and weaknesses?

Q: How do transnational theories relate to your own research subject? What are the major transnational theories that pertain to your own research subject?

Required readings:

Kapstein, E. B. (1989). "Resolving the Regulator's Dilemma: International Coordination of Banking Regulations," *International Organizations*, 43(23): 323-347.

Young, Kevin L. (2012). "Transnational Regulatory Capture? An Empirical Examination of the Transnational Lobbying of the Basel Committee on Banking Supervision," *Review of International Political Economy*, 19(4): 663-688.

Tallberg, Jonas, Thomas Sommerer, Theresa Squatrito, Christer Jonsson. (2014). "Explaining the Transnational Design of International Organizations," *International Organization*, 68(4): 741-774.

Recommended readings:

Helleiner, E. and S. Pagliari. (2011). "The End of an Era in International Financial Regulation? A Post-Crisis Research Agenda," *International Organization*, 65(1): 169-200.

Buthe, Tim and Walter Mattli. (2011). *The New Global Rulers: The Privatization of Regulation in the World Economy* (Princeton, NJ: Princeton University Press).

Price, Richard MacKay. (2003). "Transnational Civil Society and Advocacy in World Politics," *World Politics* 55(4): 579-606.

Week 12: Rationalism vs. Constructivism

Q: What are the main elements of rationalism? What are its strengths and weaknesses?

Q: What are the main elements of constructivism? What are its strengths and weaknesses?

Q: How do rationalist and/or constructivist theories relate to your own research subject? What are the major rationalist and/or constructivist theories that pertain to your own research subject?

Required readings:

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press), Chapter 5.

Wendt, Alexander. (1992). "Anarchy is What States Make of It," *International Organization* 46(2): 391-425.

Finnemore, Martha and Kathryn Sikkink. (1998). "International Norm Dynamics and Political Change," *International Organization* 52(4): 887-917.

Recommended readings:

Abdelal, Rawi. (2009). "Constructivism as an Approach to International Political Economy." In *Routledge Handbook of International Political Economy (IPE): IPE as a Global Conversation*, edited by M. Blyth (London and New York: Routledge), pp. 62-76.

Hurd, Ian. (2008). "Constructivism." In *The Oxford Handbook of International Relations*, edited by Christian Reus-Smith and Duncan Snidal (Oxford University Press), Chapter 17.

Chwieroth, Jeffrey. (2007). "Neoliberal Economists and Capital Account Liberalization in Emerging Markets," *International Organization*, 61(2): 443-463.

Allan, Bentley B., Srdjan Vucetic and Ted Hopf. (2018). "The Distribution of Identity and the Future of International Order: China's Hegemonic Prospects," *International Organization*, 72(4): 839-869.

Week 13: American IPE vs. British IPE

Q: What are the main elements of American IPE? What are its strengths and weaknesses?

Q: What is "Open Economy Politics"?

Q: What are the main elements of British IPE? What are its strengths and weaknesses?

Q: Is your own research closer to American IPE or British IPE? And why is that so?

Required readings:

Cohen, Benjamin J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton

University Press).

Lake, David A. (2009). "TRIPs across the Atlantic: Theory and Epistemology in IPE," *Review of International Political Economy* 16(1): 4757.

Recommended readings:

Cohen, Benjamin J. (2007). "The Transatlantic Divide: Why are American and British IPE So Different?" *Review of International Political Economy* 14(2): 197-219.

Oatley, Thomas. (2011). "The Reductionist Gamble: Open Economy Politics in the Global Economy," *International Organization* 65(2): 311-341.

Week 14. Globalizing IPE

Q: Discuss the Eurocentric foundations of modern IPE.

Q: How are IPE in Continental Europe, Latin America and China different from, or similar to, American and British IPE?

Q: Is "globalizing" IPE desirable? What are its benefits?

Required readings:

Hobson, John M. (2013). "Part 1 Revealing the Eurocentric Foundations of IPE: A Critical Historiography of the Discipline from the Classical to the Modern Era," *Review of International Political Economy* 20(5): 1024-1054.

Hobson, John M. (2013). "Part 2 Reconstructing the non-Eurocentric Foundations of IPE: From Eurocentric 'Open Economy Politics' to Inter-Civilizational Political Economy," *Review of International Political Economy* 20(5): 1055-1081.

Cohen, Benjamin J. (2014). *Advanced Introduction to International Political Economy* (Cheltenham and Northampton, Edward Elgar).

Acharya, Amitav. (2014). "Global International Relations (IR) and Regional Worlds: A New Agenda for International Studies." *International Studies Quarterly* 58(4): 647-659.

Recommended readings:

2013 special issue of *Review of International Political Economy* on "International Political Economy in China: The Global Conversation."

Helleiner, Eric. (2023). *The Contested World Economy: The Deep and Global Roots of international Political Economy* (Cambridge University Press).

Chey, Hyoung-kyu and Eric Helleiner. (2018). "Civilisational Values and Political Economy Beyond the West: The Significance of Korean Debates at the Time of Its Economic Opening," *Contemporary Politics* 24(2): 191-209.

Kang, David. (2020). "International Order in Historical East Asia: Tribute and Hierarchy Beyond Sinocentrism and Eurocentrism," *International Organization*, 74(1): 65-93.

Lee, Yong Wook. (2020). "Performing Civilisational Narratives in East Asia: Asian Values, Multiple Modernities, and the Politics of Economic Development," *Review of International Studies* 46 (4): 456-476.

Week 15. Student Presentations of PhD Research Proposals

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

☒ Not Allow

7. Note :

The syllabus may be updated later.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV6461E

講義名[日本語(英語)] / Class Name : The Making of Modern Japan (Advanced)

担当者 (フルネーム) / Course instructor (Full Name) : PRESSELLO Andrea/PRESSELLO Andrea

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

How did Japan become a modern country? What challenges did Japan face while modernizing and how did it address them? How has modern Japan interacted with the world? The purpose of this course is to address these broad questions by examining major issues in the process of Japan's transformation from a feudal society into a modern country. The course focuses on the period between the 19th century (when Japan ended its policy of relative seclusion, began a process of domestic reforms, and expanded its international relations) and the end of World War II in 1945. Particular attention is given to the interplay between domestic developments (related to society, institutions, politics, etc.) in Japan, foreign policy, and the changing international relations environment in East Asia. Through this course, students can acquire a basic understanding of historical developments and policy issues in Japan and acquire the ability to identify and explain factors shaping the process of making modern Japan. Through such learning, students can also gain the necessary background knowledge to have a deeper understanding of post-World War Two Japan. Students from different countries are highly encouraged to register for this course; the diverse perspectives that they can contribute is expected to enrich the discussion of Japan's experience of modernization. A background knowledge of Japanese history is not required. An overview of major developments in pre-modern Japan will be provided at the beginning of the course. During the course, some videos will be shown and one class will be held in the form of a visit to a site related to the contents of the course.

[Related Diploma Policy (DP)]

GRIPS Global Governance Program DP1, DP2

- ① Ability to plan, formulate, implement, and analyze policies from a broad perspective, based on expert knowledge in economics and politics, while being mindful of history and the reality on the ground
- ② Ability to explore solutions to a variety of policy issues from a long-term, multi-faceted perspective

Policy Professionals Program DP3

- ③研究テーマに関連する公共政策に関する研究成果に基づいて、広く次の課題や政策を構想することのできる能力

[Course Goals]

Students can:

- understand issues and processes in Japan's modern history.

-- develop the ability to identify and explain factors shaping Japanese leaders' choices, and their implications.

2. Course Outline :

- 1) Introduction
- 2) Pre-modern Japan: an overview
- 3) The Edo period (1603-1868): laying the foundations for Japan's modernization
- 4) End of the "closed country" policy and the "Meiji Revolution", 1853-1868
- 5) Building a new nation: modernization reforms
- 6) Role of the intellectuals: the case of Fukuzawa Yukichi
- 7) Rise of political parties and the Meiji Constitution (1889)
- 8) Field trip (TBC)
- 9) The making of Japan as an international power: Japan's wars with China (1894-5) and Russia (1904-5)
- 10) Japan's cooperative approach to international relations: World War I and the Washington Conference
- 11) Japanese society in the 1920s-1930s: from "Taishō democracy" to the rise of militarism
- 12) Japan and Asia during World War II
- 13) Japan and the United States during World War II
- 14) Wrap-up discussion
- 15) Presentation on the Term Paper

* This course outline is subject to change.

[Out-of-class Learning]

In preparation for each class, students are expected to read the materials distributed by the instructor and write short reaction comments on them. After class, students are expected to review the contents of the lecture and their notes. Students are also encouraged to do further reading on specific topics of their interest that were discussed in class.

3. Grading :

Term paper: 60%

Weekly short reaction comments and contribution to class discussion: 40%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

- A: at a high level
- B: at a satisfactory level
- C: at a generally acceptable level
- D: at a minimum acceptable level
- E: did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

There is no specific textbook required for this course. Reading materials (such as journal articles, book chapters, other) will be provided by the instructor during the course.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

The use of generative artificial Intelligence is not allowed when writing weekly assignments and the term paper. Software that provide support with English grammar and spelling can be used.

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Students who want to audit the course without registering are required to: 1) Send an email to the instructor stating that they intend to audit the course; 2) read the assigned materials and submit reaction comments every week.

Students from all programs are welcome to register for this course.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV7201EB

講義名[日本語(英語)] / Class Name : Advanced International Relations

担当者 (フルネーム) / Course instructor (Full Name) : BRUMMER Matthew/BRUMMER Matthew

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/木 Thu/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

(Please consider if you should take this course or Professor Iwama's course (GOV2200EA).

This course aims to provide students with an advanced introduction to essential concepts and terms of art for the study International Relations (IR). The course examines the IR discipline's primary theoretical approaches, including Realism, Liberalism, and Constructivism. The course seeks to communicate the character of world politics from diverse perspectives, including system, actor, and normative approaches, with an emphasis on relating theory to questions of public concern and policies in practice. Thus, the course is both macro-theory and micro-policy focused.

The course will draw on core texts in international relations to provide students with a firm grounding from which to think about a range of critical issues in global affairs. By the end of the course, students will: have developed a broad understanding of IR, its terminology and theoretical traditions; be able to assess and apply different IR theories to specific issues in world politics; be able to identify and develop their own inquiries into the core debates in IR; and have developed communication and academic skills necessary to undertake social science research in IR.

The course requires students to be committed to learning and to come prepared to class, having read the assigned texts in advance. The course will be taught over 15 classes and students are expected to attend all classes. Typically, each class will be divided into a lecture and a seminar. The course instructor will lead the lecture at the beginning of each class, after which we will turn to a seminar-based discussion where students will present and critically discuss the assigned reading(s) for that day.

[Related Diploma Policy (DP)]

GRIPS Global Governance Program (G-cube): 1, 2

Science, Technology and Innovation Policy Program (Doctoral): 2, 5

Policy Professional Program/政策プロフェッショナル: 3

2. Course Outline :

The detailed course outline will be presented on the first day of class.

The course is roughly divided into 2 phases. In the first phase, we will examine the core theories of International Relations as well as their sub-theories. We will also have an introduction to non-Western IR, such as "the China School." In the second phase, we will apply theory to practice and current affairs, including the US-China rivalry,

AI and technological revolutions, and climate change.

3. Grading :

Students will be assessed on the following components:

Participation (20%). All students are expected to actively participate in class discussion, and attendance will be taken. Additionally, each student will serve as a Presenter and as a Discussant for at least one of the weekly reading assignments during the semester. The role of the Presenter is to critically review the weekly reading in a concise manner while the role of the Discussant is to critique the Presenter's review, pose questions to the Presenter and facilitate discussion with the class.

Quizzes (10%). Unannounced multiple choice "pop" quizzes will periodically be taken throughout the semester. These are wholly based on the required reading for that day.

Midterm Exam (25% or 35% or 45%*). A written, 90-minute in-class open-book exam covering all lectures and required readings. Questions will take a variety of forms, including multiple choice and short answer.

Term Paper (25% or 35% or 45%*). Students will write a final term paper on a topic of their choosing and in consultation with the course instructor. Papers will be approximately 3,000 word (5,000 words maximum).

*Because everyone learns differently and has different skillsets e.g., test-taking vs. research and writing all students can select the grade distribution that best fits their preferences within three pre-defined weightings. This will be explained on the first day of class. Finally, extra credit may be earned.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

No textbook is required for this course. All readings will be provided by the professor.

Note: For students wishing to read ahead, please consider the following textbook: Baylis,Smith and Owens, "The Globalization of World Politics," Oxford University Press. Please also read Foreign Affairs.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

COVID-19 Statement: Although we have emerged out of strict Covid-19 regulations, please take care of yourself and each other.

Disclaimer: This syllabus is subject to change. Any changes will be announced in class and/or via email. This syllabus is not a static, fixed document; it is designed to adapt.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV7241E

講義名[日本語(英語)] / Class Name : Advanced International Security Studies

担当者 (フルネーム) / Course instructor (Full Name) : 道下 徳成/MICHISHITA Narushige

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course is designed to give students a better understanding of security issues in both theory and practice. We will discuss issues such as civil-military relations, international relations theories, intelligence, and nuclear issues in the first half of the course. In the latter half, we will look at the Japanese security policy and contemporary security issues such as cybersecurity and peacebuilding.

[Related Diploma Policy]

GRIPS Global Governance Program (G-cube): 1, 2

2. Course Outline :

Session 1: Orientation

Course introduction

Students' self-introduction

Recommended Reading:

Hans Rosling, Ola Rosling, and Anna Rosling Ronnlund, Factfulness: Ten Reasons We're Wrong About The World - And Why Things Are Better Than You Think (Sceptre, 2018)

Stephen Van Evera, Guide to Methods For Students of Political Science (Cornell University Press, 1997) (311.16||V26).

John M. Swales and Christine B. Freak, Academic Writing for Graduate Students: Essential Tasks and Skills (Michigan Series in English for Academic & Professional Purposes)(University of Michigan Press, 2012)

Hilary Glasman-Deal, Science Research Writing For Non-Native Speakers of English (Icp, 2009)

PART I: UNDERSTANDING SECURITY ISSUES

Session 2: Civilian Control and the Use of Force

Required Reading:

"Civilian control of the military," in Wikipedia,

"Civilmilitary relations," in Wikipedia, https://en.wikipedia.org/wiki/Civilian_control_of_the_military

Eliot A. Cohen, "The Unequal Dialogue: The Theory and Reality of Civil-Military Relations and the Use of Force," in Peter Feaver and Richard Kohn, *Soldiers and Civilians: The Civil-Military Gap and American National Security* (Cambridge, Mass.: MIT Press, 2001), pp. 429-458.

Recommended Reading:

Mark T. Esper, *A Sacred Oath: Memoirs of a Secretary of Defense During Extraordinary Times* (William Morrow & Co, 2022).

Bob Woodward and Robert Costa, *Peril* (Simon & Schuster, 2021).

Bob Woodward, *Fear: Trump in the White House* (Simon & Schuster, 2018). (『FEAR 恐怖の男 トランプ政権の真実』)

Melvyn P. Leffler, *Confronting Saddam Hussein: George W. Bush and the Invasion of Iraq* (Oxford University Press, 2023).

Robert Draper, *To Start a War: How the Bush Administration Took America into Iraq* (Penguin Press, 2020).

The Saddam Tapes: The Inner Workings of a Tyrants Regime, 1978-2001 (English Edition) Kindle 版

英語版 Kevin M. Woods (編集), David D. Palkki (編集), Mark E. Stout (編集)

Brown University's Watson Institute for International and Public Affairs, "The Costs of War Project," <https://watson.brown.edu/costsofwar/>

James M. Dubik, *Just War Reconsidered: Strategy, Ethics, and Theory* (The University Press of Kentucky, 2016).

Michael R. Gordon and Bernard E. Trainor, *The Generals' War: The Inside Story of the Conflict in the Gulf* (Little Brown & Co, 1995).

Michael R. Gordon and Bernard E. Trainor, *Cobra II: The Inside Story of the Invasion and Occupation of Iraq* (Atlantic Books, 2006).

Michael R. Gordon and Bernard E. Trainor, *The Endgame: The Inside Story of the Struggle for Iraq, from George W. Bush to Barack Obama* (Pantheon, 2012).

Eliot A. Cohen, *Supreme Command: Soldiers, Statesmen, and Leadership in Wartime* (Free Press, 2002). (エリオット・コーエン『戦争と政治とリーダーシップ』中谷和男訳、アスペクト、2003年の原書。但し、翻訳はあまりよくない)。

Ash Carter, *Inside the Five-Sided Box: Lessons from a Lifetime of Leadership in the Pentagon* (Dutton, 2019)

Robert M. Gates, *Duty: Memoirs of a Secretary at War* (Knopf, 2014)

Tommy R. Franks, *American Soldier* (Harper, 2004).

John Bolton, *The Room Where It Happened: A White House Memoir* (Simon & Schuster, 2020)

James M. Dubik, *Just War Reconsidered: Strategy, Ethics, and Theory* (The University Press of Kentucky, 2016).

Peter Feaver and Richard Kohn, *Soldiers and Civilians: The Civil-Military Gap and American National Security* (Cambridge, Mass.: MIT Press, 2001).

Donald Rumsfeld, *Known and Unknown: A Memoir* (Sentinel, 2011).

Kathleen H. Hicks, "Civilian Control of the Armed Forces," Statement Before the Senate Armed Services

Committee, January 10, 2017, https://www.armed-services.senate.gov/imo/media/doc/Hicks_01-10-17.pdf.
(Video: <https://www.armed-services.senate.gov/hearings/17-01-10-civilian-control-of-the-armed-forces>,
starting at 00:25:50)

Eliot A. Cohen, "Civilian Control of the Armed Forces," Testimony before the Senate Armed Services Committee, January 10, 2017, https://www.armed-services.senate.gov/imo/media/doc/Cohen_01-10-17.pdf.
(Video: <https://www.armed-services.senate.gov/hearings/17-01-10-civilian-control-of-the-armed-forces>,
starting at 00:34:45)

Patricia M. Shields, Sebastiaan Rietjens, and Joseph Soeters, eds., *Routledge Handbook of Research Methods in Military Studies* (Routledge, 2016)

"20 Strategic Studies and Its Critics," "22 The Practice of Strategy," and "23 Does Strategic Studies Have a Future?," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

National Institute for Defense Studies, NIDS China Security Report, .

Noboru Yamaguchi and David A. Welch, "Soldiers, Civilians, and Scholars: Making Sense of the Relationship between Civil-Military Relations and Foreign Policy," *Asian Perspective*, Vol. 29, No. 1 (2005) .

Robert Haddick, "This Week at War: The Long Death of the Powell Doctrine," *Foreign Policy*, March 5, 2010.

Thomas Berger, "From Sword to Chrysanthemum: Japans Culture of Anti-Militarism," *International Security*, Vol. 17, No. 4, Spring, 1993.

James Carroll, *House of War: The Pentagon and the Disastrous Rise of American Power* (Houghton Mifflin Harcourt, 2006).

Kenneth M. Pollack, *Armies of Sand: The Past, Present, and Future of Arab Military Effectiveness* (Oxford University Press, 2019).

Alex Abella, *Soldiers of Reason: The RAND Corporation and the Rise of the American Empire* (Houghton Mifflin Harcourt, 2008)

道下徳成「自衛隊の組織・装備の名称変更案——文民統制強化と透明性向上のために」『外交』 Vol. 16、2012 年 12 月、134～142 頁、<https://www.slideshare.net/tujicas/2012-renaming-the-sdf-for-better-civilian-control-and-transparency-full-michishita>。

「道下徳成先生と対談 文民統制のための自衛隊改称案」細野豪志チャンネル、2020 年 5 月 7 日、
<https://youtu.be/gDY8R6IvtZ8>

Giuseppe Caforio and Marina Nuciari, eds., *Handbook of the Sociology of the Military* (Handbooks of Sociology and Social Research) (Springer, 2018).

Donald Alexander Downs and Ilia Murtazashvili, *Arms and the University: Military Presence and the Civic Education of Non-Military Students* (Cambridge University Press, 2012).

Dave Grossman and Loren W. Christensen, *On Combat: The Psychology and Physiology of Deadly Conflict in War and in Peace* (Human Factor Research Group, 2008)

Martha Raddatz, *The Long Road Home: A Story of War and Family* (Putnam Adult, 2007). (Also, watch *The Long Road Home*, an American drama miniseries created by Mikko Alanne)

David Finkel, *Thank You For Your Service* (Scribe Publications, 2013)

David Finkel, *The Good Soldiers* (Farrar Straus & Giroux, 2009)

Session 3: War and Peace in International Relations Theories

Required Reading:

Stephen M. Walt, "International Relations: One World, Many Theories," *Foreign Policy* (Spring 1998), pp. 29-46.

Narushige Michishita and Peter van der Hoest, "Another Cold War in Asia?" *Asan Forum*, July 19, 2013, <http://www.theasanforum.org/another-cold-war-in-asia/>.

Recommended Reading:

Jakub J. Grygiel and A. Wess Mitchell, *The Unquiet Frontier: Rising Rivals, Vulnerable Allies, and the Crisis of American Power* (Princeton University Press, 2016).

Geoffrey Blainey, *The Causes of War*, 3rd ed. (New York: The Free Press, 1988).

Michael Howard, *The Causes of Wars*, 2nd ed. (Cambridge, Massachusetts: Harvard University Press, 1983).

Michael E. Brown et al, eds., *Theories of War and Peace* (The MIT Press, 1998).

"5 The Causes of War," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

Richard K. Betts, ed., *Conflict After the Cold War: Arguments on Causes of War and Peace*, 5th ed. (Routledge, 2017).

Michael E. Brown, Sean M. Lynn-Jones, and Steven E. Miller, eds., *East Asian Security* (An International Security Reader) (The MIT Press, 1996).

G. John Ikenberry and Michael Mastanduno, eds., *International Relations Theory and the Asia-Pacific* (Columbia University Press, 2003)

Session 4: Strategic Concepts -- Offense, Defense, Compellence, and Deterrence

Required Reading:

Lawrence Freedman, ed., *Strategic Coercion: Concepts and Cases* (Oxford: Oxford University Press, 1998), pp. 1-60.

Recommended Reading:

Elbridge A. Colby, *The Strategy of Denial: American Defense in an Age of Great Power Conflict* (Yale University Press, 2016).

Thomas C. Schelling, *Arms and Influence: With a New Preface and Afterword* (Yale University Press, 2008).

Edward N. Luttwak, *Strategy: The Logic of War and Peace*, revised and enlarged (Harvard University Press, 2002).

"4 Strategic Theory," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

Lawrence Freedman, *The Revolution in Strategic Affairs*, Adelphi Paper 318 (London: IISS, 1998).

Lawrence Freedman, *Transformation of Strategic Affairs*, Adelphi Paper 379 (Routledge, 2006).

Michael B. Oren, *Six Days of War: June 1967 and the Making of the Modern Middle East* (Oxford University Press, 2002).

Rodger Claire, *Raid on the Sun: Inside Israel's Secret Campaign that Denied Saddam the Bomb* (Broadway, 2004) (ロジャー・クレイア『イラク原子炉攻撃！』並木書房、2007年)

Yaakov Katz, *Shadow Strike: Inside Israel's Secret Mission to Eliminate Syrian Nuclear Power* (St Martins Press, 2019) (ヤーコブ・カッツ『シリア原子炉を破壊せよーイスラエル極秘作戦の内幕』茂木作太郎訳、並木書房、2020年)

道下徳成「戦略論の将来」道下徳成、石津朋之、長尾雄一郎、加藤朗『現代戦略論—戦争は政治の手段か』勁草書房、2000年、139-186ページ。

柳澤協二、道下徳成対談「I 抑止力の意味と日本の防衛政策」柳澤協二著、道下徳成、小川伸一、植木千可子、山口昇、加藤朗、広瀬佳一对談『抑止力を問う—元政府高官と防衛スペシャリスト達の対話』かもがわ出版、2010年。

Session 5: Nuclear Weapons and Their Consequences

Required Reading:

"12 Nuclear Weapons in the Twenty-First Century" and "13 The Control of Weapons of Mass Destruction," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

The White House, "Nuclear Weapons Employment Policy," National Security Decision Directive Number 13, October 19, 1981, <https://fas.org/irp/offdocs/nsdd/nsdd-13.pdf>.

US Department of Defense, "The 2022 National Defense Strategy of the United States of America including the 2022 Nuclear Posture Review and the 2022 Missile Defense Review," October 27, 2022, <https://media.defense.gov/2022/Oct/27/2003103845/-1/-1/1/2022-NATIONAL-DEFENSE-STRATEGY-NPR-MDR.PDF>

"U.S. Nuclear Weapons Policy: Considering 'No First Use'," Congressional Research Service, March 29, 2022, <https://crsreports.congress.gov/product/pdf/IN/IN10553/11>.

Tomiko Inui, Boya, *The Little Flying Fish* (Tokyo: Kin-no-Hoshi Sha, 1990). (日本語版：いぬいとみこ『トビウオのぼうやはびょうきです』金の星社、1982)

Recommended Reading:

"Nuclear strategy" in Wikipedia, the free encyclopedia

"Physical damage, blast effect, Hiroshima, 1946-03-13 to 1946-04-08,"
<https://www.youtube.com/watch?v=Y2DsH7aQ-cA>

US Department of Defense, "Nuclear Posture Review 2018," pp. V-XVII,
<https://media.defense.gov/2018/Feb/02/2001872886/-1/-1/1/2018-NUCLEAR-POSTURE-REVIEW-FINAL-REPORT.PDF>.

Fred Kaplan, *The Bomb: Presidents, Generals, and the Secret History of Nuclear War* (Simon & Schuster, 2021)

Hidenori Watanabe, "Hiroshima Archive," https://hiroshima.archiving.jp/index_jp.html

Hidenori Watanabe, "Nagasaki Archive," https://n.mapping.jp/index_jp.html

Bulletin of the Atomic Scientists (Journal)

Federation of American Scientists (Website)

US Department of Defense, "Fact Sheet: 2022 Nuclear Posture Review and Missile Defense Review,"
<https://media.defense.gov/2022/Mar/29/2002965339/-1/-1/1/FACT-SHEET-2022-NUCLEAR-POSTURE-REVIEW-AND-MISSILE-DEFENSE-REVIEW.PDF>

James M. Smith and Paul J. Bolt, eds., *Chinas Strategic Arsenal: Worldview, Doctrine, and Systems* (Georgetown University Press, 2021).

Ma Xiu, PLA Rocket Force Organization, China Aerospace Studies Institute, Air University, October 24, 2022,
<https://www.airuniversity.af.edu/Portals/10/CASI/documents/Research/PLARF/2022-10-24%20PLARF%20Organization.pdf>.

Lawrence Freedman and Jeffrey Michaels, *The Evolution of Nuclear Strategy: New, Updated and Completely Revised*, 4th ed. (Palgrave Macmillan, 2019)

Paul Bracken, *The Second Nuclear Age: Strategy, Danger, and the New Power Politics* (St. Martin's Griffin, 2013).

T.V. Paul and Patrick M. Morgan, *Complex Deterrence: Strategy in the Global Age* (University of Chicago Press, 2009).

Joseph Cirincione, Jon B. Wolfsthal, and Miriam Rajkumar, *Deadly Arsenals: Nuclear, Biological, and Chemical Threats*, 2nd ed. (Carnegie Endowment for International Peace, 2005)

Michael Dobbs, *One Minute to Midnight: Kennedy, Khrushchev, and Castro on the Brink of Nuclear War* (Knopf, 2008). (マイケル・ドブズ『核時計零時 1 分前—キューバ危機 13 日間のカウントダウン』日本放送出版協会、2010 年。)

Siegfried S. Hecker, ed., *Doomed to Cooperate: How American and Russian Scientists Joined Forces to Avert Some of the Greatest Post-Cold War Nuclear Dangers* (Bathrub Row Press, 2016).

Hans Kristensen, "Japan Under the US Nuclear Umbrella," Nautilus Institute, 2015, <http://www.nautilus.org/wp-content/uploads/2015/06/Japan-Under-the-US-Nuclear-Umbrella.pdf>.

Yukio Satoh, *US Extended Deterrence and Japans Security*, Livermore Papers on Global Security No. 2, Lawrence Livermore National Laboratory, Center for Global Security Research, October 2017, <https://cgsr.llnl.gov/content/assets/docs/satoh-report-final.pdf>

Wendy R. Sherman, *Not for the Faint of Heart: Lessons in Courage, Power, and Persistence* (PublicAffairs, 2018).

Katsuhisa Furukawa, "Nuclear Option, Arms Control, and Extended Deterrence: In Search of a New Framework for Japan's Nuclear Policy," in Benjamin L. Self and Jeffrey W. Thompson, eds., *Japans Nuclear Option: Security, Politics, and Policy in the 21st Century* (The Henry L. Stimson Center, December 2003).

Cartoon book: Keiji Nakazawa, *Barefoot Gen* (はだしのゲン, Hadashi no Gen), vols. 1-10 (Last Gasp of San Francisco, 2004-2009). [A Cartoon Story of the Atomic Bombing of Hiroshima]

TV film: "On the Beach," Directed by Russell Mulcahy, Featuring Bryan Brown and Armand Assante, 2000.

秋山信将、高橋杉雄『「核の忘却」の終わり—核兵器復権の時代』勁草書房、2019年

森本敏、高橋杉雄編著『新たなミサイル軍拡競争と日本の防衛—INF条約後の安全保障』並木書房、2020年。

Session 6: Intelligence and National Security

Required Reading:

Mark M. Lowenthal, *Intelligence: From Secrets to Policy*, 9th ed. (CQ Press, 2022), pp. 73-216.

Recommended Reading:

"9 Intelligence and Strategy," in John Baylis, James J. Wirtz, and Jeannie L. Johnson, eds., *Strategy in the Contemporary World*, 7th ed. (Oxford University Press, 2022).

Yoshiki Kobayashi, "Integrating Japan's Intelligence Community: analyzing the effectiveness of the Director of Cabinet Intelligence as a coordinating body," *Intelligence and National Security*, July 2023, DOI: 10.1080/02684527.2023.2228044

Markus Schiller, "Missile Identification and Assessment," April 2022, <https://www.iiss.org/-/media/files/research-papers/2022/04/missile-identification-and-assessment.pdf?la=en&hash=34152FFA10671B00221C71D6380BE7D7663E0D8C>

Eric O'Neill, *Gray Day: My Undercover Mission to Expose Americas First Cyber Spy* (Crown, 2019).

Edward Jay Epstein, *How America Lost Its Secrets: Edward Snowden, the Man and the Theft* (Knopf, 2017).

Stephen Budiansky, *Code Warriors: NSAs Codebreakers and the Secret Intelligence War Against the Soviet Union* (Knopf, 2016).

David E. Hoffman, *The Billion Dollar Spy: A True Story of Cold War Espionage and Betrayal* (Doubleday, 2015).

Ben Macintyre, *The Spy and the Traitor: The Greatest Espionage Story of the Cold War* (Viking, 2018).

Seth G. Jones, *A Covert Action: Reagan, the CIA, and the Cold War Struggle in Poland* (W.W. Norton & Co, 2018).

Sherry Sontag and Christopher Drew, *Blind Man's Bluff: The Untold Story of American Submarine Espionage*

(PublicAffairs, 1998)

Daniel Golden, *Spy Schools: How the CIA, FBI, and Foreign Intelligence Secretly Exploit Americas Universities* (Henry Holt & Co, 2017)

Jack Barsky, *Deep Undercover: My Secret Life & Tangled Allegiances As a KGB Spy in America* (Tyndale Momentum, 2017).

US Central Intelligence Agency, *Tradecraft Primer: Structured Analytic Techniques for Improving Intelligence Analysis*, March 2009, http://www.au.af.mil/au/AWC/AWCgate/cia/tradecraft_primer_2009.pdf.

Abram N. Shulsky and Gary J. Schmitt, *Silent Warfare: Understanding the World of Intelligence*, 3d ed. (Brassey's, 2002).

Richard K. Betts, *Surprise Attack: Lessons for Defense Planning* (Brookings Institution Press, 1982).

Richard J. Samuels, *Special Duty: A History of the Japanese Intelligence Community* (Cornell University Press, 2019).

David Albright, Sarah Burkhard, and Allison Lach, "Commercial Satellite Imagery Analysis for Countering Nuclear Proliferation," *Annual Review of Earth and Planetary Sciences*, June 8, 2018, <https://www.annualreviews.org/doi/pdf/10.1146/annurev-earth-063016-015704>.

David Wise, *The Seven Million Dollar Spy: How One Determined Investigator, Seven Million Dollars - and a Death Threat by the Russian Mafia - Led to the Capture of the Most Dangerous Mole Ever Unmasked Inside U.S. Intelligence* (Audible.com, 2018).

Mara Hvistendahl, *The Scientist and the Spy: A True Story of China, the FBI, and Industrial Espionage* (Riverhead Books, 2020).

Milton Bearden and James Risen, *The Main Enemy: The Secret Story of the CIA's Bloodiest Battle* (Century, 2003).

Tim Weiner, *Legacy of Ashes: The History of the CIA* (Doubleday, 2007).

Laura Poitras, Marcel Rosenbach, Fidelius Schmid, Holger Stark and Jonathan Stock, "How the NSA Targets Germany and Europe," *Der Spiegel*, July 1, 2013, <https://www.spiegel.de/international/world/secret-documents-nsa-targeted-germany-and-eu-buildings-a-908609.html>

Session 7: Assessing Military Balance

Required Reading:

Toby Dalton, Narushige Michishita, and Tong Zhao, "Security Spillover: Regional Implications of Evolving Deterrence on the Korean Peninsula," (Carnegie Endowment for International Peace, June 2018), https://carnegieendowment.org/files/CP_336_DaltonMichishitaZhao_Korea_final1.pdf.

Drew Thompson, "Chapter 12: Winning the Fight Taiwan Cannot Afford to Lose," in Joel Wuthnow, Derek Grossman, Phillip C. Saunders, Andrew Scobell, and Andrew N.D. Yang, eds., *Crossing the Strait: China's Military Prepares for War with Taiwan* (National Defense University Press, 2022), <https://ndupress.ndu.edu/Portals/68/Documents/Books/crossing-the-strait/crossing-the-strait.pdf>

Recommended Reading:

Mark F. Cancian, Matthew Cancian, and Eric Heginbotham, "The First Battle of the Next War: Wargaming a Chinese Invasion of Taiwan," A Report of the CSIS International Security Program, January 2023, [https://csis-website-prod.s3.amazonaws.com/s3fs-](https://csis-website-prod.s3.amazonaws.com/s3fs-public/publication/230109_Cancian_FirstBattle_NextWar.pdf?VersionId=WdEUwJYWlySMPIr3ivhFolxC_gZQuSOQ)

[public/publication/230109_Cancian_FirstBattle_NextWar.pdf?VersionId=WdEUwJYWlySMPIr3ivhFolxC_gZQuSOQ](https://csis-website-prod.s3.amazonaws.com/s3fs-public/publication/230109_Cancian_FirstBattle_NextWar.pdf?VersionId=WdEUwJYWlySMPIr3ivhFolxC_gZQuSOQ)

Anthony H. Cordesman, Korean Peninsula Military Modernization Trends (CSIS, 2016), https://csis-prod.s3.amazonaws.com/s3fs-public/publication/160922_Korean_Peninsula_Modernization.pdf.

Michael O'Hanlon, "Stopping a North Korean Invasion: Why Defending South Korea Is Easier than the Pentagon Thinks," *International Security*, vol. 22, no. 4 (Spring 1998), pp. 135-170.

International Institute for Strategic Studies, North Korean Security Challenges: A Net Assessment (International Institute for Strategic Studies, 2011).

Stuart K. Masaki, "The Korean Question: Assessing the Military Balance," *Security Studies*, vol. 4, no. 2 (Winter 1994/95).

Phillip A. Karber, Grant Whitley, Mark Herman, and Douglas Komer, *Assessing the Balance of Forces: France 1940* (McLean, VA: BDM Corporation, June 18, 1979), p. 2-9.

Martin S. Alexander, "The Fall of France 1940," *Journal of Strategic Studies*, vol. 13, no. 1 (March 1990), pp. 10-44.

Malcolm Smith, "The Allied Air Offensive," *Journal of Strategic Studies*, vol. 13, no. 1 (March 1990), pp. 67-83.

Barry O'Neill, "How to Measure the Military Worth of a Weapon, at Least in Theory," April 1991, revised March 1996 .

Fred Frostic and Christopher J. Bowie, "Conventional Campaign Analysis of Major Regional Conflicts," in Paul K. Davis, ed., *New Challenges for Defense Planning: Rethinking How Much is Enough* (Santa Monica: RAND, 1994), pp. 351-392.

US Department of Defense, "Military and Security Developments Involving the Democratic People's Republic of Korea, 2017" Report to the Congress, February 13, 2018, <https://media.defense.gov/2018/May/22/2001920587/-1/-1/1/REPORT-TO-CONGRESS-MILITARY-AND-SECURITY-DEVELOPMENTS-INVOLVING-THE-DEMOCRATIC-PEOPLES-REPUBLIC-OF-KOREA-2017.PDF>.

Kathleen J. McNinn et al., "The North Korean Nuclear Challenge: Military Options and Issues for Congress," Congressional Research Service, 2017, <https://fas.org/sgp/crs/nuke/R44994.pdf>.

Global Security.org, "Military Options," "OPLAN 5015," "OPLAN 5027 - Major Theater War," "OPLAN 5026 - Air Strikes," "OPLAN 5029 - Collapse of DPRK," "OPLAN 5030 - Rollback of DPRK,"

金元奉・光藤修編著, 2000『最新朝鮮半島軍事情報の全貌—北朝鮮軍, 韓国軍, 在韓米軍のパワーバランス』講談社。

PART II: NATIONAL SECURITY POLICY

Session 8: Japan's Military Power - Video Materials & Discussion

Required Reading:

Narushige Michishita, "Myths and Realities of Japan's Security Policy," (article), Woodrow Wilson Center, February 18, 2020, <https://www.wilsoncenter.org/blog-post/myths-and-realities-japans-security-policy>.

Narushige Michishita, "Update - Renaming the Self-Defense Force for Better Civilian Control and Transparency."

Narushige Michishita, "Japan faces tricky entry into world arms market," Straits Times, December 3, 2014, p. A24.

Recommended Reading:

Narushige Michishita, "Myths and Realities of Japan's Security Policy," Lecture, Woodrow Wilson Center, September 26, 2019, <https://www.wilsoncenter.org/event/myths-and-realities-japans-security-policy>.

Narushige Michishita, "Japan Must Reject Isolationism," New York Times, August 18, 2015, <https://www.nytimes.com/roomfordebate/2015/08/18/should-japan-allow-its-military-to-fight-in-foreign-wars/japan-must-reject-isolationism>.

Government of Japan, "National Defense Program Guidelines for FY 2019 and beyond," Approved by the National Security Council and the Cabinet on December 18, 2018, http://www.cas.go.jp/jp/siryoku/pdf/2019boueikeikaku_e.pdf.

Japan Ministry of Defense, Defense of Japan: White Paper, available at the Ministry of Defense website.

Richard J. Samuels, *Securing Japan: Tokyo's Grand Strategy and the Future of East Asia* (Cornell University Press, 2007).

Makoto Iokibe, ed., *The Diplomatic History of Postwar Japan* (Routledge, 2010).

Yasuhiro Izumikawa, "Explaining Japanese Antimilitarism: Normative and Realist Constraints on Japan's Security Policy," *International Security*, Vol. 35, No. 2 (Fall 2010), pp. 123-160.

Masataka Oguro, "Ensuring Japan's Future Air Security: Recommendations for Enhancing the JASDF's Readiness to Confront Emerging Threats," Brookings Institution, September 2018, https://www.brookings.edu/wp-content/uploads/2018/09/FP_20180925_JASDF_readiness.pdf.

Yoshihide Soeya, Masayuki Tadokoro, and David A. Welch, eds., *Japan as a 'Normal Country'?: A Nation in Search of Its Place in the World* (University of Toronto Press, 2011), Introduction, and Chapters 1 and 3.

Ministry of Defense, "Guidebook to the Ministry of Defense / Manga-Style Defense of Japan (Comic)," <https://www.mod.go.jp/j/kids/comic/e/2019/all.pdf>.

道下徳成「第6章 自衛隊のエア・パワーの発展と意義」石津朋之、山下愛仁編著『エア・パワー——空と宇宙の戦略原論』日本経済新聞出版社、2019年。

道下徳成「第7章 自衛隊のシー・パワーの発展と意義」石津朋之、立川京一、道下徳成、塚本勝也編著『シー・パワー—その理論と実践』シリーズ・軍事力の本質②、芙蓉書房出版、2008年、219-279頁。

道下徳成「『いずも』空母化がもたらす3つのメリット—新たな防衛大綱を評価する」『日経ビジネスオンライン』2018年12月21日。

Session 9: Country Security Policy (Presentation & Discussion)

Students are asked to get together and organize a country team (one team for one country) based on your nationality, and make a 5-minute presentation on the following questions:

(1) What are the two most important security challenges for your country?

(2) What are the two things that your country is doing to deal with these challenges?

Each team must select one representative and have her/him make the entire presentation. You can use handouts or slides (maps and etc) as long as you keep the 5-minute time limit.

After the presentations, we will open the floor for Q&A and discussion.

Session 10: North Korea's Nuclear/Missile Development and Japan's Response

Required Reading:

Narushige Michishita, North Korea's Military-Diplomatic Campaigns, 1966-2008 (London: Routledge, 2009), chapter 9. (韓国語版:『북한의 벼랑 끝 외교사, 1966-2013 년』이원경 옮김, 한울, 2014 년, 제 9 장. 日本語版:『北朝鮮 瀬戸際外交の歴史、1966～2012 年』ミネルヴァ書房、2013 年、第 9 章)

Recommended Reading:

National Air and Space Intelligence Center, "Ballistic and Cruise Missile Threat," Defense Intelligence Ballistic Missile Analysis Committee, June 2017, <https://fas.org/irp/threat/missile/bm-2017.pdf>.

Ronald O'Rourke, "Navy Aegis Ballistic Missile Defense (BMD) Program: Background and Issues for Congress," CRS Report, August 29, 2022, <https://sgp.fas.org/crs/weapons/RL33745.pdf>.

Jeffrey Lewis, The 2020 Commission Report on the North Korean Nuclear Attacks Against The United States (WH Allen, 2018). (ジェフリー・ルイス『2020年・米朝核戦争』文春文庫、2020年)

Narushige Michishita, "The Trump-Kim Summit, Future Scenarios, and Japan's Policy toward the Korean

Peninsula," *Asia-Pacific Review*, Vol. 25, No. 2, 2018, pp. 6474, <https://www.tandfonline.com/doi/full/10.1080/13439006.2018.1545490>.

Narushige Michishita, "What can North Korea's ICBM do?" *Straits Times*, July 8, 2017.

Narushige Michishita, "Japan's Response to Nuclear North Korea," in Gilbert Rozman, ed., *Asia at A Tipping Point: Korea, the Rise of China, and the Impact of Leadership Transitions* (Korea Economic Institute, 2012).

(韓国語版:「北韓の 핵 미사일 위협에 대한 일본의 군사 외교적 대응」『新亜細亜』19 卷 4 号、2012 年冬季号, pp. 7-26. 日本語版:「北朝鮮の核・ミサイル開発と日本の対応」『海外事情』2013 年 6 月号、12~28 頁。)

Narushige Michishita, "Japan and South Korea, the Friendly Foes of East Asia," *New York Times*, February 9, 2018, <https://www.nytimes.com/2018/02/09/opinion/japan-south-korea-friendly.html>.

Ryo Hinata-Yamaguchi, *Defense Planning and Readiness of North Korea: Armed to Rule* (Routledge, 2021).

Session 11: The Rise of China and Japan's Response

Required Reading:

Narushige Michishita, "Japan's Grand Strategy for a Free and Open Indo-Pacific," *The Oxford Handbook of Japanese Politics* (Oxford University Press, 2021).

Narushige Michishita, "Japans New National Security Strategy: Getting Committed to the Defense of Taiwan," Center for Strategic and International Studies, June 2023, [https://csis-website-prod.s3.amazonaws.com/s3fs-public/2023-](https://csis-website-prod.s3.amazonaws.com/s3fs-public/2023-06/230608_Michishita_Strategic_Japan.pdf?VersionId=E_uemDUdnuXRdf3AJtOFC.Mek89mmlSM)

[06/230608_Michishita_Strategic_Japan.pdf?VersionId=E_uemDUdnuXRdf3AJtOFC.Mek89mmlSM](https://csis-website-prod.s3.amazonaws.com/s3fs-public/2023-06/230608_Michishita_Strategic_Japan.pdf?VersionId=E_uemDUdnuXRdf3AJtOFC.Mek89mmlSM)

Recommended Reading:

Robert D. Blackwill and Philip Zelikow, "The United States, China, and Taiwan: A Strategy to Prevent War," Council on Foreign Relations, February 2021, https://cdn.cfr.org/sites/default/files/report_pdf/csr90_1.pdf?_gl=1*1jr162p*_ga*MTA4MjkwNTE3Ny4xNzAwNTQ1MjE2*_ga_24W5E70YKH*MTcwMDU0NTIxNi4xLjEuMTcwMDU0NTMzNi4yNS4wLjA..

Mark F. Cancian, Matthew Cancian, and Eric Heginbotham, "The First Battle of the Next War: Wargaming a Chinese Invasion of Taiwan," A Report of the CSIS International Security Program, January 2023, https://csis-website-prod.s3.amazonaws.com/s3fs-public/publication/230109_Cancian_FirstBattle_NextWar.pdf?VersionId=WdEUwJYWlySMPIr3ivhFolxC_gZQuSOQ.

Ian Easton, *The Chinese Invasion Threat: Taiwan's Defense and American Strategy in Asia* (Project 2049 Institute, 2017).

Narushige Michishita, "How Would North Korea and China Use Nuclear Weapons? Scenarios for Discussion," *Security Studies* (Tokyo), vol. 5, no. 2, June 2023, <http://ssdpaki.la.coocan.jp/en/proposals/134.html>

Stacie Pettyjohn and Hannah Dennis, "Avoiding the Brink: Escalation Management in a War to Defend Taiwan," Center for a New American Security, February 2023, pp. 7-9, <https://s3.us-east-1.amazonaws.com/files.cnas.org/documents/CNASReport-Avoiding-the-Brink-Final.pdf?mtime=20230213131242&focal=none>.

Sugio Takahashi, "Strategic Stability and the Impact of China's Modernizing Strategic Strike Forces," and Hans M. Kristensen, "China's Strategic Systems and Programs," in James M. Smith and Paul J. Bolt, eds., *China's Strategic Arsenal: Worldview, Doctrine, and Systems* (Georgetown University Press, 2021).

Sugio Takahashi, "Development of gray-zone deterrence: concept building and lessons from Japan's experience," *The Pacific Review*, November 2018.

Michael Fabey, *Crashback: The Power Clash Between the U.S. and China in the Pacific* (Scribner, 2017). 邦訳は、マイケル・ファベイ著、徳地秀士監修、赤根洋子訳『米中海戦はもう始まっている—21世紀の太平洋戦争』文藝春秋、2018年。

Toshi Yoshihara, *Red Star over the Pacific: China's Rise and the Challenge to US Maritime Strategy*, Second Edition (Naval Institute Press, 2019).

Andrew F. Krepinevich Jr., "How to Deter China: The Case for Archipelagic Defense," *Foreign Affairs*, March/April 2015.

GRIPS Webinar: "Dragon against the Sun: Chinese Views of Japanese Seapower," Toshi Yoshihara (CSBA) discusses his recent report with Narushige Michishita (GRIPS), June 24, 2020, <https://www.youtube.com/watch?v=QrfzwapczEw&t=4770s>

Elliot Ackerman and James Stavridis, *2034: A Novel of the Next World War* (Penguin Press, 2021). (エリオット・アッカーマン、ジェイムズ・スタヴリディス『2034 米中戦争』熊谷千寿訳、二見文庫、2021年)

Tsuyoshi Sunohara, *Fencing in the Dark: Japan, China, and the Senkakus* (Tokyo: Japan Publishing Industry Foundation for Culture, 2020). (春原剛『暗闘 尖閣国有化』新潮文庫、2015年。)

Col. Qiao Liang and Col. Wang Xiangsui, *Unrestricted Warfare: China's Master Plan to Destroy America* (Echo Point Books & Media, 2015). (喬良、王湘穗『超限戦—21世紀の「新しい戦争」』坂井臣之助監修、Liu Ki 訳)

Eric Heginbotham, et al., *The U.S.-China Military Scorecard: Forces, Geography, and the Evolving Balance of Power, 1996-2017* (RAND, 2015), https://www.rand.org/content/dam/rand/pubs/research_reports/RR300/RR392/RAND_RR392.pdf.

Office of the Secretary of Defense, "Military and Security Developments Involving the People's Republic of China 2021," *Annual Report to Congress*, November 2021, <https://media.defense.gov/2021/Nov/03/2002885874/-1/-1/0/2021-CMPR-FINAL.PDF>.

Jonathan F. Solomon, "Defending the Fleet from China's Anti-Ship Ballistic Missile: Naval Deception's Roles in Sea-Based Missile Defense," A Master Thesis, Georgetown University, April 15, 2011, .

Yoshikazu Watanabe, Masanori Yoshida, and Masayuki Hironaka, "The US-Japan Alliance and Roles of the Japan Self-Defense Forces: Past, Present, and Future," (Sasakawa Peace Foundation USA, 2016), .

J. Ashley Roach and Robert W. Smith, *Excessive Maritime Claims*, 3rd ed. (Leiden: Martinus Nijhoff Publishers, 2012).

James Kraska and Raul Pedrozo, *International Maritime Security Law* (Martinus Nijhoff, 2013).

Tetsuo Maeda, *The Hidden Army: The Untold Story of Japan's Military Forces*, trans. by Steven Karpa (Edition Q, 1994), pp. 229-268. (前田哲男『自衛隊の歴史』(ちくま学芸文庫、筑摩書房、1994年))

Andrew Oros and Yuki Tatsumi, *Global Security Watch: Japan* (Praeger, 2010).

National Institute for Defense Studies, *NIDS China Security Report*, .

Narushige Michishita, "Deciphering China's Security Intentions: The Japanese Debate," in Gilbert Rozman, ed., *Joint U.S.-Korea Academic Studies*, Vol. 27, 2016, http://www.keia.org/sites/default/files/publications/final_kei_jointus-korea_2016_161010.pdf.

Narushige Michishita, "Japan's Grand Strategy for a Free and Open Indo-Pacific," *The Oxford Handbook of Japanese Politics* (Oxford University Press, forthcoming).

道下徳成「第8章 インド太平洋地域のパワーシフトー中国の台頭と日本の対応」庄司潤一郎、石津朋之編著『地政学原論』日本経済新聞出版社、2020年。

Robert Spalding, *Stealth War: How China Took Over While Americas Elite Slept* (Portfolio, 2019)

出入管理庁撮影『尖閣列島写真集』1970年、
<https://www.cas.go.jp/jp/ryodo/shiryo/senkaku/detail/s1970070000103/s1970070000103-p02.pdf>

Narushige Michishita, "Cooperate and compete: Abe's new approach to China," *Straits Times*, November 13, 2018, p. A17.

Narushige Michishita, "Land of setting sun meets rising dragon," *Straits Times*, October 3, 2012, p. A22.

Gennifer Weisenfeld, *Gas Mask Nation: Visualizing Civil Air Defense in Wartime Japan* (University of Chicago Press, 2023).

Session 12: U.S.-Japan Alliance

Required Reading:

"The U.S.-Japan Alliance," January 6, 2023, <https://sgp.fas.org/crs/row/RL33436.pdf>.

"U.S. Defense Infrastructure in the Indo-Pacific: Background and Issues for Congress," Congressional Research Service, June 6, 2023, <https://crsreports.congress.gov/product/pdf/R/R47589>.

Stephen M. Walt, "Why Alliances Endure or Collapse," *Survival*, vol. 39, no. 1 (1997), pp. 156-179.

Narushige Michishita, Peter M. Swartz, and David F. Winkler, *Lessons of the Cold War in the Pacific: U.S. Maritime Strategy, Crisis Prevention, and Japan's Role* (Woodrow Wilson Center, 2016), https://www.wilsoncenter.org/sites/default/files/media/documents/publication/lessons_of_the_cold_war_in_the_pacific_one_page.pdf.

Recommended Reading:

United States Government Accountability Office (GAO), "Burden Sharing: Benefits and Costs Associated with the U.S. Military Presence in Japan and South Korea," Report to Congressional Committees, GAO-21-270,

March 2021, <https://www.gao.gov/assets/72>

3. Grading :

Book Review (10%)

Ph.D. students are asked to write one 800 to 1,000-word review on one or two book(s) by January 30, 2025. Find one or two academic books relevant to the subjects dealt with in this course (books on the recommended reading list are acceptable, but not those on the required reading list). If you choose two books, you should choose two books on more or less the same topic and write a comparative review. You are not allowed to choose edited volumes. You must obtain approval from the instructor before you start writing the review.

Book review must consist of (a) a summary of the book (10%), (b) one or two most important argument(s) (30-40%), (c) a critical assessment (both positive and negative) of the book's main argument(s) (40-50%), and (d) comparison of the book with other similar book(s) if any (0-10%).

Reaction Papers (90%)

Ph.D. students will also be asked to submit one 600 to 800-word reaction paper for each session except for Sessions 1, 8, 9, and 15 to michi@grips.ac.jp by midnight on the first Sunday after the class (2400 hours on Sundays). Use "word count" and indicate the number of words in your paper. Only the number of words in the main text counts. The title and notes do not.

I ask you to write reaction papers to enhance your ability to ask good questions, collect relevant information quickly (mainly online), construct your analytical framework, and find answers to those questions logically. It is not about writing academic papers but about conducting intellectual exercises on topics related to national or international security.

In writing the paper, identify one (or maybe two) facts, issues, or analyses that struck you most in the required reading materials and lectures, and provide your analytical observations. The subject of the paper must be relevant to the topic of the particular session. For example, write about civilian control in the paper for the session on civilian control. Do not write about military balance in the paper for the session on civilian control even if the required reading materials for the session touch upon military balance.

The title of the paper must be original. Do not use the session title as your papers title. You must entitle your paper based on the topic you chose to write about.

To make your argument clear in reaction papers, you may choose to state one or two questions at the beginning and answer them in the following main text. This is not a universal format, but it may be helpful to make your argument solid and cogent.

Do not simply summarize the lecture or the reading materials. Neither should you plagiarize (copy materials in full or partially from somebody else's work and use it). When you borrow ideas from others' work, make sure you paraphrase and cite the original work by using the footnoting function available in MS-WORD.[1] Please take a look at the link below to understand how to avoid plagiarism. Plagiarism will result in disqualification from this course.

"Plagiarism: What It is and How to Recognize and Avoid It"

<https://wts.indiana.edu/writing-guides/plagiarism.html>

In writing the paper, use the format sent by the instructor. Do not change the font size (12 points) or margins. When you send the file, name the file like the following: "Your first name or nickname (session number).docx," for example "Joe (Session 5).docx."

You are not a specialist in the field yet (although you are going to), and writing an essay on some random topics must be a challenge. However, I ask you to do this because that's what you will be asked to do in the future. Try to do the following when you write your paper:

- Identify some interesting topics/issues in the reading materials/class lecture and discussion, and come up with one tentative question for the paper;
- Find some related information, articles, and papers on the website;
- Read them, modify your question if need be, and write an essay on the topic.
- I expect you to spend about six hours on this.

You are a Ph.D. student. Ph.D. students must become capable of finding good questions instead of simply finding good answers to the questions provided by their advisors. You don't have to be right on everything. Reaction papers are a means of developing your ideas and arguments. So, be creative and aggressive.

Reaction papers will be graded on a scale of 1 to 10 with 10 being the best grade.

[1] For the definition of plagiarism, see "Plagiarism," .

[Grading Criteria]

A : Achieved the goal at a high level

B : Achieved the goal at a satisfactory level

C : Achieved the goal at a generally acceptable level

D : Achieved the goal at a minimum acceptable level

E : Did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

See the course schedule

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : GOV8221E

講義名[日本語(英語)] / Class Name : Politics of Global Money and Finance (Advanced)

担当者 (フルネーム) / Course instructor (Full Name) : CHEY Hyoung-kyu/CHEY Hyoung-kyu

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/水 Wed/1

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course addresses the international political economy of money and finance, a central issue area in International Political Economy (IPE). The focus of the course is not on the technical aspects of international financial market operations or international finance theories, but rather on the political and institutional contexts in which they function.

The course is broadly divided into three sections. In the first section, students will learn fundamental concepts and major theoretical issues in IPE, with specific reference to monetary and financial issues in the world economy. In the second section, students will explore the historical development of the international monetary and financial system, dating from the era of the classical gold standard. In the final section, students will address central issues relating to the international political economy of money and finance in the contemporary world.

The primary goals of the course are for students to develop a comprehensive understating of the political causes of the evolving structure of the international monetary and financial system over time and to enable them to effectively analyze and address the implications of this evolving structure for a nation's policy choices and for international and domestic politics.

Each class will consist of two parts. The first part will be a lecture by the instructor, and the second a seminar requiring the active participation of all students in discussing the major issues raised in the lecture. The lecture will account for about two-thirds of the length of each class, and the seminar the remainder.

This course is related to SDG Goals 9 (Industry, Innovation and Infrastructure) and 16 (Peace, Justice and Strong Institutions).

[Related Diploma Policy]

GRIPS Global Governance Program (G-cube):

- (1) Ability to plan, formulate, implement, and analyze policies from a broad perspective, based on expert knowledge in economics and politics, while being mindful of history and the reality on the ground.
- (2) Ability to explore solutions to a variety of policy issues from a long-term, multi-faceted perspective.

2. Course Outline :

Section I: Concepts and Theories

Week 1. What Is Money?

Week 2. Politics of Money

Week 3. Basic Economic Concepts

Week 4. Major IPE Theories

Section II: History of the International Monetary and Financial System

Week 5. The International Gold Standard

Week 6. Monetary Disorder in the Interwar Period

Week 7. The Bretton Woods System

Week 8. The International Monetary System since 1973, and Exchange Rate Politics

Section III: Contemporary Issues

Week 9. The Globalization of Finance: Its Causes and Consequences

Week 10. Financial Crises and International Financial Regulation

Week 11. The political Economy of International Currencies (I)

Week 12. The political Economy of International Currencies (II)

Week 13. Cryptocurrencies

Week 14. Central Bank Digital Currencies

Week 15. Course Review and Exam

As part of the out-of-class learning activities, students are expected to complete the required readings for each class and are encouraged to review the recommended readings beforehand. Additionally, they should thoroughly review the lecture materials and reflect on the issues discussed in class following each session.

3. Grading :

Evaluation for the course will be based on three components: class participation, including contributions to class discussion (20%), one essay (30%) and one in-class exam (50%). The details of the essay requirement are as follows:

- Topic: to be announced later
- Length: minimum of 2,000 words to a maximum of 3,000 words (excluding notes and references)
- Deadline for submission: one week after the last class (Week 15)

Grades:

A: Outstanding achievement of the course goals.

B: Superior achievement of the course goals.

C: Satisfactory achievement of the course goals.

D: Minimum acceptable achievement of the course goals.

E: Achievement of the course goals is below the acceptable level.

4. Textbooks and References (4-1:Required 4-2:Others)

Introductory texts:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press).

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapters 10 to 15.

Week 1. What Is Money?

Required readings:

Ingham, Geoffrey. (2004). *The Nature of Money* (Cambridge: Polity Press), Chapter 1.

Peacock, Mark. (2013). *Introducing Money* (London and New York: Routledge), Chapters 1 and 2.

Recommended readings:

Mankiw, N. Gregory. (2017). *Principles of Economics* (South-Western College), 8th edition, Chapters 29, 30 and 35.

Ingham, Geoffrey. (2004). *The Nature of Money* (Cambridge: Polity Press), Introduction, and Chapters 2 and 4.

Menger, Carl. (1892). "On the Origins of Money," *Economic Journal*, 2: 239-55.

Knapp, Georg Friedrich. (2003 [1924]). *The State Theory of Money*, San Diego, CA: Simon Publications.

Innes, A. Mitchell. (1913). "What Is Money," *The Banking Law Journal*, May: 377-408.

Week 2. Politics of Money

Required readings:

Cohen, Benjamin J. (2015). *Currency Power: Understanding Monetary Rivalry* (Princeton: Princeton University Press), Chapter 2.

Armijo, Leslie Elliott, Daniel C. Tirone, and Hyoungh-kyu Chey. (2020). "The Monetary and Financial Powers of States: Theory, Dataset, and Observations on the Trajectory of American Dominance," *New Political Economy*, 25(2): 174-194.

Recommended readings:

Kirshner, Jonathan. (2003). "Inescapable Politics of Money," in *Monetary Orders: Ambiguous Economics, Ubiquitous Politics*, edited by Jonathan Kirshner (Ithaca and London: Cornell University Press), pp. 3-24.

Week 3. Key Economic Concepts

Required readings:

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapter 10.

Walter, Andrew and Gautam Sen. (2009). *Analyzing the Global Political Economy* (Princeton, NJ: Princeton University Press), Chapter 4.

Recommended readings:

Mankiw, N. Gregory. (2017). *Principles of Economics* (South-Western College Publication), 8th edition, Chapter 31.

Week 4. Major IPE Theories

Required readings:

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapter 1.

Broz, J. Lawrence, and Jeffrey Frieden. (2001). "The Political Economy of International Monetary Relations," *Annual Review of Political Science* 4:317-43.

Recommended readings:

Cohen, Benjamin, J. (2008). *International Political Economy: An Intellectual History* (Princeton: Princeton University Press).

Frieden, Jeffrey A., David A. Lake and J. Lawrence Broz., eds. (2017). *International Political Economy: Perspectives on Global Power and Wealth*, 6th edition (New York: W. W. Norton & Company), Introduction.

Week 5. The International Gold Standard

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 2.

Broz, Lawrence. (1997). "The Domestic Politics of International Monetary Order: The Gold Standard," in *Contested Social Orders and International Politics* edited by David Skidmore (Nashville: Vanderbilt University Press), pp. 53-91.

Recommended readings:

Knafo, Samuel. (2011). "The Gold Standard and the Origins of the Modern International Monetary System," *Review of International Political Economy*, 13(1): 78-102.

Week 6. Monetary Disorder in the Interwar Period

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 3.

Recommended readings:

Simmons, Beth A. (1994). *Who Adjust? Domestic Sources of Foreign Economic Policy during the Interwar Years* (Princeton: Princeton University Press).

Morrison, James Ashley. (2016). "Shocking Intellectual Austerity: The Role of Ideas in the Demise of the Gold Standard in Britain," *International Organization*, 70(1): 175-207.

Week 7. The Bretton Woods System

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 4.

Ruggie, John Gerard. (1982). "International Regimes, Transactions and Change: Embedded Liberalism in the Postwar Economic Order," *International Organization* 36(2): 379-415.

Helleiner, Eric. (1996). *States and Reemergence of Global Finance: From Bretton Woods to the 1990s* (Ithaca: Cornell University Press), Chapters 2 and 3.

Recommended readings:

Ikenberry, G. John. (1992). "A World Economy Restored: Expert Consensus and the Anglo-American Postwar Settlement," *International Organization* 46(1): 289-321.

Helleiner, Eric. (2019). "The Life and Times of Embedded Liberalism: Legacies and Innovations since Bretton Woods," *Review of International Political Economy*, 26 (6): 1112-1135.

Week 8. The International Monetary System since 1973, and Exchange Rate Politics

Required readings:

Eichengreen, Barry. (2019). *Globalizing Capital: A History of the International Monetary System*, 3rd edition (Princeton and Oxford: Princeton University Press), Chapter 5.

Broz, J. Lawrence and Jeffrey A. Frieden. (2006). "The Political Economy of Exchange Rates," in *Oxford Handbook of Political Economy*, edited by Barry Weingast, and Donald Wittma (Oxford: Oxford University Press), pp. 587-597. Available at <http://scholar.harvard.edu/files/jfrieden/files/PEofERHandbook.pdf>

Oatley, Thomas. (2023). *International Political Economy*, 7th edition (New York and London: Routledge), Chapters 11-13.

Recommended readings:

Quinn, Dennis P., Thomas Sattler and Stephen Weymouth. (2023). "Do Exchange Rates Influence Voting? Evidence from Elections and Survey Experiments in Democracies, *International Organization* 77 (4): 789-823.

Chey, Hyoung-kyu. (2009). "A Political Economic Critique on the Theory of Optimum Currency Areas, and the Implications for East Asia," *The World Economy* 32(12): 1685-1705.

Steinberg, David. (2015) *Demanding Devaluation: Exchange Rate Politics in the Developing World* (Ithaca: Cornell University Press), Introduction.

Bernhard, William, and David Leblang. (1999). "Democratic Institutions and Exchange-Rate Commitments," *International Organization* 53(1): 71-97.

Frieden, Jeffry A. (1991). "Invested Interests: The Politics of National Economic Policy in a World of Global Finance," *International Organization* 45(4): 425-451.

Week 9: The Globalization of Finance: Its Causes and Consequences

Required readings:

Walter, Andrew and Gautam Sen. (2009). *Analyzing the Global Political Economy* (Princeton, NJ: Princeton University Press), Chapters 4 and 5.

Cohen, Benjamin. (1996). "Phoenix Risen: The Resurrection of Global Finance," *World Politics* 48(2): 268-296.

Recommended readings:

Simmons, Beth A., and Zachary Elkins. (2004). "The Globalization of Liberalization: Policy Diffusion in the International Political Economy," *American Political Science Review* 98(1): 171-189.

Chwieroth, Jeffrey. (2007). "Neoliberal Economists and Capital Account Liberalization in Emerging Markets," *International Organization*, 61(2): 443-463.

Pepinsky, Thomas, B. (2013). "The Domestic Politics of Financial Internationalization in the Developing World," *Review of International Political Economy*, 20(4): 848-880.

Week 10. Financial Crises and International Financial Regulation

Required readings:

Helleiner, Eric and Stefano Pagliari. (2011). "The End of an Era in International Financial Regulation? A Post-Crisis Research Agenda," *International Organization* 65(1): 169-200.

Young, Kevin L. (2012). "Transnational Regulatory Capture? An Empirical Examination of the Transnational Lobbying of the Basel Committee on Banking Supervision," *Review of International Political Economy*, 19(4): 663-688.

Chey, Hyoung-kyu. (2014). *International Harmonization of Financial Regulation? The Politics of Global Diffusion of Basel Capital Accord* (London and New York: Routledge), Chapter 1.

Recommended readings:

Helleiner, Eric. (2014). *The Status Quo Crisis: Global Financial Governance after the 2008 Meltdown* (Oxford:

Oxford University Press).

Drezner, Daniel W. (2014). *The System Worked: How the World Stopped Another Great Depression* (Oxford: Oxford University Press).

Chey, Hyoungh-kyu. (2007). "Do Markets Enhance Convergence on International Standards? The Case of Financial Regulation," *Regulation & Governance* 1(4): 295-311.

Chey, Hyoungh-kyu. (2006). "Explaining Cosmetic Compliance with International Regulatory Regimes: The Implementation of the Basle Accord in Japan, 1998-2003," *New Political Economy*, 11(2): 271-289.

Chey, Hyoungh-kyu. (2016). "International Financial Standards and Emerging Economies since the Global Financial Crisis," in Randall C. Henning and Andrew Walter, eds., *Global Financial Governance Confronts the Rising Powers* (Waterloo: Center for International Governance Innovation, 2016), pp. 61-85. Also, available at <https://www.cigionline.org/publications/changing-global-financial-governance-international-financial-standards-and-emerging/>

Jones, Emily and Alexandra O Zeitz. (2019). "Regulatory Convergence in the Financial Periphery: How Interdependence Shapes Regulators' Decisions," *International Studies Quarterly*, 63(4): 908-922.

Week 11. The Political Economy of International Currencies (I)

Required readings:

Chey, Hyoungh-kyu. (2012). "Theories of International Currencies and the Future of the World Economy," *International Studies Review* 14(1), 51-77.

Cohen, Benjamin J. (2015). *Currency Power: Understanding Monetary Rivalry* (Princeton: Princeton University Press), Chapters 1 to 6.

Cohen, Benjamin J. (2019). *Currency Statecraft: Monetary Rivalry and Geopolitical Ambition* (Chicago and London: University of Chicago Press).

Chey, Hyoungh-kyu. (2022). *The International Political Economy of the Renminbi Currency Internationalization and Reactive Currency Statecraft* (Routledge), Chapters 1 and 2.

Recommended readings:

Eichengreen, Barry. (2011). *Exorbitant Privilege: The Rise and Fall of the Dollar and the Future of the International Monetary System* (Oxford: Oxford University Press).

Chey, Hyoungh-kyu. (2019). "The International Politics of Reactive Currency Statecraft: Japan's Reaction to the Rise of the Chinese Renminbi," *New Political Economy* 24(4): 510-529.

Chey, Hyoungh-kyu and Yu Wai Vic Li. (2020). "Chinese Domestic Politics and the Internationalization of the Renminbi," *Political Science Quarterly*, 135(1): 37-65.

Week 12. The Political Economy of International Currencies (II)

Required readings:

Chey, Hyoungh-kyu. (2013). "Can the Renminbi Rise as a Global Currency? The Political Economy of Currency

Internationalization," *Asian Survey* 53(2): 348-68.

Cohen, Benjamin J. (2015). *Currency Power: Understanding Monetary Rivalry* (Princeton: Princeton University Press), Chapters 7 to 9.

Chey, Hyoung-kyu. (2022). *The International Political Economy of the Renminbi Currency Internationalization and Reactive Currency Statecraft* (Routledge), Chapters 3 and 8.

McDowell, Daniel. (2021). "Financial sanctions and political risk in the international currency system," *Review of International Political Economy*, 28(3): 635-661.

Recommended readings:

Chey, Hyoung-kyu, Geun-Young Kim and Dong Hyun Lee. (2019). "Which Foreign States Support the Global Use of the Chinese Renminbi? The International Political Economy of Currency Internationalization," *The World Economy* 42(8): 2403-2426.

Chey, Hyoung-kyu and Minchung Hsu. (2020). "The Impacts of Policy Infrastructures on the International Use of the Chinese Renminbi: A Cross-Country Analysis," *Asian Survey* 60(2).

Germain, Randall, and Herman Schwartz. (2014). "The Political Economy of Failure: The Euro as an International Currency," *Review of International Political Economy* 21(5): 1095-1122.

McDowell, Daniel. (2023). *Bucking the Buck: US Financial Sanctions and the International Backlash against the Dollar* (Oxford: Oxford University Press).

Week 13. Cryptocurrencies

Required readings:

Chey, Hyoung-kyu. (2023). "Cryptocurrencies and the IPE of Money: An Agenda for Research," *Review of International Political Economy*, 30(4): 1605-1620.

Ba, Heather-Leigh and omer Faruk Şen. (2024). "Explaining Variation in National Cryptocurrency Regulation: Implications for the Global Political Economy," *Review of International Political Economy*, DOI: 10.1080/09692290.2024.2325403.

Recommended readings:

Prasad, Eswar S. (2021). *The Future of Money: How the Digital Revolution Is Transforming Currencies and Finance* (Cambridge, MA and London: The Belknap Press of Harvard University Press), Part II.

Week 14. Central Bank Digital Currencies

Required readings:

Chia, Colin and Eric Helleiner. (2024). "Central Bank Digital Currencies and the Future of Monetary

Sovereignty," Finance and Space, 1(1): 35-48.

Peruffo, Luiza, Andr e; Moreira Cunha and Andr e; Ernesto Ferrari Haines. (2023). "China's Central Bank Digital Currency (CBDC): An Assessment of Money and Power Relations," New Political Economy, 28(6): 881-896.

Recommended readings:

Prasad, Eswar S. (2021). The Future of Money: How the Digital Revolution Is Transforming Currencies and Finance (Cambridge, MA and London: The Belknap Press of Harvard University Press), Part III.

Bank of Canada, European Central Bank, Bank of Japan, Sveriges Riksbank, Swiss National Bank, Bank of England, Board of Governors Federal Reserve System and Bank for International Settlements. (2020). Central Bank Digital Currencies: Foundational Principles and Core Features, Basel: Bank for International Settlements.

Deng, Wei Ru (Harry). (2023). "Negotiating Currency Internationalization: An Infrastructural Analysis of the Digital RMB," Finance and Society, EarlyView.

International Monetary Fund. (2023). Central Bank Digital Currency Virtual Handbook. Available at https://www.imf.org/en/Topics/fintech/central-bank-digital-currency/virtual-handbook?utm_medium=email&utm_source=govdelivery.

European Central Bank. (2020). Report on a Digital Euro. Available at <https://www.ecb.europa.eu/euro/html/digitaleuro-report.en.html>.

Week 15. Course Review and Exam

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

The syllabus may be updated later.

開講年度 (2024.4月-2025.3月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI2060J

講義名[日本語(英語)] / Class Name : 高等教育・産学連携政策(水、19:30～21:00)

担当者 (フルネーム) / Course instructor (Full Name) : 隅藏 康一/SUMIKURA Koichi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

産学連携の活性化は、知的財産政策ならびにイノベーション政策のいずれの観点からも、最重要課題の一つとして位置づけられる。大学側の組織である大学知的財産本部や技術移転機関 (TLO) において、また企業側の産学連携担当部署において、基礎的な技術シーズの「目利き」の能力を持ち、そのシーズをさらに発展させるべくマネジメントを行うことが求められている。本講義では、産学連携に関する政策が日本や米国においてどのようにデザインされてきたかをたどり、具体的な成功例・失敗例を踏まえながら今後の課題と解決策を議論する。

【関連するディプロマポリシー(DP)】

科学技術イノベーション政策プログラム (修士課程)

特に強く関係する DP :

①科学技術イノベーションとその政策に関する学術的知識を有し、それらを政策課題に対して応用することができる能力

一部関係する DP:

② 公共政策に係る知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、分析ができる能力

③科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築し、定量的・定性的データ等を活用して分析を行い、それらを政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

④科学技術イノベーション政策の形成や実施の実務に関する理解を有し、理論と実務を架橋した実践的な政策提言ができる能力

⑤グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーおよびフォロワーとしての役割を自覚して活躍できる能力

【到達目標】

産学連携に関する政策が日本や米国においてどのようにデザインされてきたかを理解し、具体的な成功例・失敗例を踏まえながら今後の課題と解決策を考えることができる。

2. 各授業のテーマ :

1. イントロダクション：大学の役割、産学連携の類型化
2. 科学技術イノベーション基本法・基本計画、知的財産推進計画
3. 大学発スタートアップ、スタートアップ・エコシステム
4. 産学連携人材の育成
5. 米国の政策：バイ・ドール法
6. 米国の事例：コーエン・ボイヤーの遺伝子組み換え技術
7. 米国の事例：AUTM の統計資料より
8. リサーチ・アドミニストレーター の役割
9. 大学知財ガバナンス・ガイドライン
10. 研究インテグリティと秘密保持、利益相反
11. 各種データに見る、日本における課題（科学技術指標）
12. スター・サイエンティストの育成
13. プレゼンテーション (1)
14. プレゼンテーション (2)
15. まとめ

【授業外学修】

講義内で示された資料を読んで内容を把握する。講義内で行うプレゼンテーションの準備をする。

3. 成績の評価方法：

講義における討論への参加と貢献度：50%

プレゼンテーションとその資料の提出（論理性、独創性、資料の完成度、引用の適切性、質疑応答への対応、他の学生のプレゼンテーションに対する質問など）：50%

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1.

Martin Kenney and David Mowery (2014) "Public universities and regional growth: insights from the University of California"

<http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&lang=ja&AN=77890>

6

（GRIPS 図書館に電子書籍があります）

隅藏康一（2021） 「大学を源泉とする知の移転」，研究技術計画, Vol.36, No.3, p.271-289.

https://www.jstage.jst.go.jp/article/jsrpim/36/3/36_271/_article/-char/ja/

4-2.

「科学技術イノベーション政策の科学 コアコンテンツ」 <https://scirex-core.grips.ac.jp/>

高橋真木子・古澤陽子・枝村一磨・隅藏康一『日本のアカデミアにおける研究推進・活用人材・競合から協働へと向かう産学官連携コーディネーターと URA-』GRIPS DISCUSSION PAPER 18-11
(2018) <http://doi.org/10.24545/00001639>

講義資料は各講義で配布します。

5．講義で使用するソフトウェア（特にない場合は空欄でも可）：

6．聴講の可否

可 Allow

7．履修上の注意：

受講者は、講義内で定められた課題について、少なくとも2回のプレゼンテーションを、講義内で行っていただきます。そのための準備も必要となります。

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7251J

講義名[日本語(英語)] / Class Name : 計量分析演習

担当者（フルネーム） / Course instructor (Full Name) : 鈴木 潤/SUZUKI Jun

学期・曜日・時限 / Term・Day・Period : 秋前期・Fall (Session I)・土 Sat/3 土 Sat/4

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

EBPM（エビデンスに基づく政策立案）のための政策効果の測定には、各種サーベイ結果や統計等のデータの活用が欠かせない。本講義は、基本的なデータ分析を学生自らが実際に行うことによって、適切なデータの収集やクリーニング、加工、分析、結果の解釈、などを行うことができる能力を養うことを目的とする。計量分析のツールは日々進歩しているが、それを利用したり結果を解釈したりするためには知っておくべき前提や専門用語、手法の限界、陥りがちな落とし穴などが随所に存在する。本講義では統計学の理論や数学的説明を極力避け、実務的な応用と解説を重視するため、統計分析の初心者であっても受講可能である。本演習によって基本的な分析手法と結果を解釈する能力を身に着ければ、様々なレポートや論文で示されるデータ分析結果を自ら主体的に解釈し、他者による解釈の限界などを理解することも可能になるものと期待される。

【関連するディプロマポリシー(DP)】

(科学技術イノベーション政策プログラム)

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築し、定量的・定性的データ等を活用して分析を行い、それらを政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

【到達目標】

学生が到達すべき目標は以下の通り。

(1)定量的データの種類や特性を理解し、目的とする分析の手法やモデルに対してどのようなデータ型が適切なのかを理解することができるようになる。

(2)定量的データのクリーニングや記述統計、分布の確認などができるようになる。

(3)統計分析ツール（ソフトウェア）の基本的操作方法を身に着ける。

(4)出力された分析結果の意味とその限界を理解し、適切に解釈することが可能になる。

2. 各授業のテーマ：

1/2 データ分析の基礎と分析ソフト・データの準備

R、R コマンダー、EZR、データの観察と記述統計

3/4 グループ間の比較と検定

変数の種類、平均値の比較、中央値の比較、相関、直交表

5/6 多変量解析の基礎

因子分析・主成分分析、クラスター分析

7/8 回帰分析-1

単回帰、OLS 重回帰、残差の診断、変数選択

9/10 回帰分析-2

ダミー変数、カテゴリーデータ：ロジスティック回帰（単項、多項、順序）、一般化線形モデル

11/12 回帰分析-3

時系列データ、パネルデータの重回帰

13/14 因果関係の分析、その他

内生性と操作変数、傾向スコアによる分析、その他

15 ラップアップ

学生による課題解析発表の発表と討論

【授業外学修】

受講者は、毎回授業で配布されるサンプルデータを用いて、自ら分析を再現するとともに、様々な分析のオプションを実施し、どのような結果が得られるのかを確認してみることが望ましい。また、ラップアップに向けて担当するデータセットが決まったら、適切な方法で分析を行い、結果を解釈する。そして効果的なプレゼンテーションを目指してパワーポイント・スライドなどを作成する。

3. 成績の評価方法：

授業におけるデータ分析とディスカッションへの参加・発表：100%

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-2：その他

神田善伸、2020 年、EZR でやさしく学ぶ統計学「改訂 3 版」、中外医学社

逸見功、2018 年、統計ソフト「R」超入門、ブルーバックス、講談社

森田果、2014 年、実証分析入門、日本評論社

R. James et.al., 2013, An Introduction to Statistical Learning: with Applications in R (Springer Texts in Statistics)

John Fox, 2016, Using the R Commander: A Point-and-Click Interface for R (Chapman & Hall/CRC The R Series Book 35)

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

受講者は、事前に下記 HP（自治医大の HP です）から、EZR のインストーラーをダウンロードしておくこと（インストールと初期設定は講義の中で行う）：

<https://www.jichi.ac.jp/saitama-sct/SaitamaHP.files/statmed.html>

6. 聴講の可否

可 Allow

7. 履修上の注意：

2024 年は学年暦の関係上 10 月 12 日スタートでは 15 コマの講義回数を確保できないため、10 月 5 日（土曜）に講義をスタート（1/2 データ分析の基礎と分析ソフト・データの準備）します。

受講者は、統計ソフトのインストールおよびデータを保存するため、自らの PC を持参すること（OS として Windows 10/11 搭載機、また操作性の観点からマウスの利用を推奨する。Mac OS 搭載機については、OS のバージョンにより統計ソフトがインストールできないことがあるので、利用する場合は自己責任で）。

この科目はデータサイエンス関連科目に指定されています。

開講年度 (2024.4月-2025.3月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7281J

講義名[日本語(英語)] / Class Name : 知的財産マネジメントⅡ

担当者 (フルネーム) / Course instructor (Full Name) : 隅藏 康一/SUMIKURA Koichi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・土 Sat/3 土 Sat/4 土 Sat/5

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

知的財産保護法制、産官学それぞれにおける知的財産戦略、ならびに産学連携施策等を主要なテーマとする、オープンなセミナーに参加し、多様なバックグラウンドの講師や参加者とともに議論し相互に学びあうことで、科学技術イノベーション政策、ならびにナショナル・イノベーション・システムにおける知的財産の役割について理解し、その戦略的活用のための知見を修得する。

【関連するディプロマポリシー(DP)】

特に強く関連する DP :

① 科学技術イノベーションとその政策に関する高度な学術的かつ学際的な専門知識を有し、それらを政策課題に対して複合的に応用することができる能力

一部関係する DP:

② 公共政策に係る幅広い知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、多角的な視野から分析ができる能力

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、過去の学術的知見を踏まえて問題を設定し、仮説を構築し、科学技術イノベーションに特有なデータを含めて多様な定量的・定性的データ等を活用して独自の分析を行い、それらを研究論文や政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

④ 科学技術イノベーション政策の形成や実施の実務に関する高度な理解を有し、理論と実務を架橋した実践的な政策提言ができる能力

⑤ グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーとして活躍できる能力

2. 各授業のテーマ :

10/19 (土) 13:00-18:30 講義ならびに、知的財産マネジメント研究会への参加

11/16 (土) 13:00-18:30 講義ならびに、知的財産マネジメント研究会への参加

12/14 (土) 13:00-18:30 講義ならびに、知的財産マネジメント研究会への参加

1/18 (土) 13:00-19:00 講義ならびに、知的財産マネジメント研究会への参加

※知的財産マネジメント研究会には、学外の一般参加者の方々とともにご参加いただきます。

詳細な内容については、講義内で連絡いたします。

3. 成績の評価方法：

講義・セミナーへの参加、議論への貢献、レポートの提出あるいはプレゼンテーション、により評価する。

【成績評価基準】 Pass: 到達目標について達成している Fail: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-2 参考資料

Koichi Sumikura (2022) "Mission-oriented Innovation Policies in Japan: focusing on function of intellectual property and technology transfer," Asian Research Policy, Vol.13, December 2022, 84-91.

https://www.kistep.re.kr/arpIssue.es?act=content_view&list_no=215&act=content_view&mid=a20802000000

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

この講義は、科学技術イノベーション政策プログラムの修士課程（2年制）あるいは博士課程の方々については、2年目以降の方々が受講することを想定しています。

科学技術イノベーション政策プログラムの修士課程（2年制）あるいは博士課程の、1年目の方々は、土曜日に開講される他の講義を受講してください。

本学の修士課程を修了後に博士課程に進学した方などで、すでにそれらの科目の単位を取得済みの場合は、その限りではありません。

科学技術イノベーション政策プログラム以外のプログラムの方々は、1年目から受講していただくことが可能です。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : LAN0300E

講義名[日本語(英語)] / Class Name : Introduction to Academic Research

担当者(フルネーム)/ Course instructor (Full Name): PETCHKO Katerina, et al./PETCHKO Katerina, et al.

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/木 Thu/6

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

This course introduces students to the standards of scholarship at GRIPS and provides guidance on the basics of conducting academic research. It provides an overview of research fundamentals, briefly surveys research approaches commonly used in policy research, and explains the basic logic that undergirds these approaches. Students learn the fundamental skills of conceptualizing problems, formulating research questions, working with academic literature, creating a theoretical framework, and structuring a research paper. Significant time will be devoted to research ethics, especially proper citation and referencing.

Achievement Goals

Students will be exposed to, and will have an opportunity to learn and become familiar with, the fundamental skills of academic research including:

- conceptualizing research problems
- formulating answerable research questions
- working with academic literature, especially journal articles
- creating a theoretical framework for a research paper
- structuring a research paper and understanding what goes into each part
- referencing their work and using sources appropriately

Relevant DP

All international Master's programs

2. Course Outline :

- Week 1: Research in public policy and purposes of empirical research
- Week 2: Your research options: Quantitative, qualitative, non-empirical
- Week 3: Research questions and research strategies
- Week 4: Literature review and theoretical frameworks
- Week 5: Research ethics: Using sources appropriately
- Weeks 6: Structure of a research paper: The Introduction
- Week 7: Structure of a research paper: Methodology and analysis

Week 8: Structure of a research paper: Results and discussion/conclusion

Out-of-class Learning

Students are expected to go over the relevant sections of the textbook. Students will have an opportunity to develop and submit a research plan for feedback.

3. Grading :

Regular quizzes will be given throughout the course to assess understanding of the main topics. Students will be encouraged to submit a research plan/idea for feedback from the instructor.

Grading: Pass/Fail.

Pass: Demonstration of understanding of the course content (through quizzes).

Fail: Failure to demonstrate understanding of the course content or failure to attend at least 70% of the course.

4. Textbooks and References (4-1:Required 4-2:Others)

Petchko, K (2018). How to write about economics and public policy. Academic Press.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : MSP5000E

講義名[日本語(英語)] / Class Name : Case Study on Maritime Safety and Security Policy I

担当者 (フルネーム) / Course instructor (Full Name) : 古谷 健太郎 / FURUYA Kentaro

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall 秋/Thu 木/3 4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

This course aims to deepen understanding concerning the role of Coast Guard agencies in maritime safety and security issues through comparative analysis and discussions. First, an overview of the duties and functions of relevant departments/divisions of the Japan Coast Guard is introduced, and students study the process of policy formulation in maritime safety and security. Then, students will compare and contrast different approaches in strategies/tactics and the process of policy formulation in their organization, which will lead to possible solutions to challenges in their organization. It further aims to identify regional and global issues relating to maritime safety and security and find practical and feasible solutions by deepening understandings and analyzing information regarding the current circumstances and issues surrounding participants' States.

[Related Diploma Policy (DP)]

Maritime Safety and Security Policy Program

DP2

The knowledge, analytical ability, creativity, and leadership to formulate policies and take necessary actions to tackle problems and improve the safety and security environment at sea

DP3

The practical and professional skills to manage and lead Coast Guard organizations

[Course Goals]

Students will discuss contemporary maritime safety and security issues in lectures to grasp the latest policies. Additionally, they can analyze threats in their respective countries and develop effective countermeasures.

2. Course Outline :

Students will discuss the following items during the class:

- 1 Introduction to the Coast Guard policies
- 2 Education and Training Policy
- 3 Marine Environment Protection and Disaster Prevention policy
- 4 Hydrography and Oceanography policy
- 5 Maritime Guard and Security Operations policy
- 6 Logistics policies
- 7 Maritime Traffic Safety policy

- 8 ICT system for Coast Guard
- 9 Counter-piracy measures policy
- 10 Coast Guard cooperation and diplomacy
- 11 Search and Rescue policy
- 12 Counter-illegal fishery measures
- 13 Counter-narcotics measures
- 14 Maritime Domain Awareness (MDA) policy
- 15 Wrap-ups

[Out-of-class Learning]

Students are supposed to research relevant policies in their States in order to actively participate in class discussions by exchanging their concerns and views on the topics.

3. Grading :

70% for the assignment submitted by the designated deadline

Students are expected to attend all classes and contribute to discussions in them, which will also be considered.

30%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

The English version of the latest JCG Annual Report will be distributed during the course.

Other teaching materials will be distributed as necessary.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing: Allow or Not Allow

7. Note :

Auditing may be approved for those who are not MSP student but have the practical experience in maritime security.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : PAD2680E

講義名[日本語(英語)] / Class Name : Social Security System in Japan

担当者 (フルネーム) / Course instructor (Full Name) : 小野 太一/ONO Taichi

学期・曜日・時限 / Term・Day・Period : 冬学期 Winter/金 Fri/3 金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This class is intended for the international students to understand the social security system (purpose of the class). Students will learn the social security system of Japan to which the lecturer will focus on, but they also learn about the global development of social security from the practice of other countries.

There are wide range of policies that are categorized as Social Security (or Social Protection). They are quite complicated, and affect significantly to the daily lives of people of different age, gender or socio-economic status. It makes the policy makers harder that any individual has his/her own experience and of their family member therefore has something to say about the benefits and services despite that the money and human resources are not infinite; people's expectations are high and dissatisfactions are, unfortunately, also. Because of that nature, however, it is quite interesting and rewarding for politicians and bureaucrats that they devote their intellect and passion for the public to this policy basket filled with hot potatoes.

As is well known, because of the global economic development and the improvement of public health, many countries today have come to enjoy longevity and better health status of their people. At the same time, due to rapid changes in their society such as the urbanization, growth of middle-income class and their demand for better state of life in addition to aging and declining birthrate, establishment/reform of its social security system in universal as well as sustainable manner now has come to the top political priority in many countries. Commitment for the establishment of social security system is reflected in UNs 2030 Agenda for Sustainable Development. For example, SDG 1.3 urges countries to implement nationally appropriate social protection systems and measures for all, including floors, and to achieve substantial coverage of the poor and the vulnerable by 2030. SDG 3.8 calls for countries to achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all.

Japan, which is well known for its longevity and better health status, has more than half-century experience of universal health care and public pension coverage, and universal coverage of long-term care for the elderly for more than two decades. Their history and achievements are filled with various lessons, and it is the achievement goal of this class that the future international leaders who gather at GRIPS (i.e., students) will know them in depth, and will obtain the viewpoints which is necessary for social security policy making after returning to each home country.

Relevant DP is YLP (2)(3) and EPP (2)(3), but the class is open to any international students who wish to understand the importance of social security (social protection) policy in domestic policy-making of each respective country.

2. Course Outline :

For this class, one lecture will be composed of two consecutive periods.

Specific scope of coverage of the course is as below;

- 1: Outline of Social Security (Objective, function, value) and its historical development (1st and 2nd lecture)
- 2: Demography and Family (1st and 5th lecture)
- 3: Healthcare System (Service Provision and Finance) (3rd and 4th lecture)
- 4: Long-term Care (Nursing Care) System (5th lecture)
- 5: Pension System (6th lecture)
- 6: Labor Policy (Workers Compensation Insurance, Unemployment Insurance) (7th lecture)
- 7: Social Welfare Measures to support the underprivileged people including Public Assistance System (7th lecture)
- 8: Measures against Child Welfare and Supporting Child-Rearing (including policies toward declining birthrate) (8th lecture)

*Please note that the 1st lecture will be held on February 14th (not 7th). A make-up lecture (for 2 periods) will be provided sometime in February or March. The lecturer will consult the students when to have that make-up lecture in class.

In class, the lecturer will try to introduce not only the Japanese experiences but international practices as well. Ad-hoc issues, such as extension of social insurance coverage to vulnerable workers, or finding fiscal space for social protection, will also be discussed.

Lectures are provided to give the students the overview of the Japanese social security system in general, the challenges that each of the system is facing, as well as the lessons learnt from the Japanese experiences.

The students will be asked to give brief paper submission, and exchange of dialogue about the status of social security system of the country that he/she is coming from. The style of paper submission/presentation will vary according to the number of the students. The exchange of dialogue session will usually take place at the 7th and 8th lecture, but the details will be announced at the 1st lecture.

After each lecture (from 1st to 8th), every student is asked to submit questions and comments for the days lecture. Lecturer will prepare the responses for every questions and comments raised by the students in a few days after. Students are required to read through the responses along with the class handouts for review.

3. Grading :

Class Participation (including submission of questions and comments and engagement to the exchange of dialogue) 50%, Final Report 50%.

Student will be graded as E (rejection) if he/she cannot prove himself/herself as having sufficient correct knowledge about the basic structure of social security program in Japan and his/her own country.

Grade ABCD will be made as following:

A: Understand the issues related to the social security program in Japan and his/her own country in depth, and provide the way for improvement of the program in concrete and practical manner logically well with his/her own words.

B: Understand the issues related to the social security program in Japan and his/her own country in a satisfactory manner, and provide the way for improvement of the program in concrete and practical manner with his/her own words.

C: Understand the issues related to the social security program in Japan and his/her own country in a satisfactory manner, and provide the way for improvement of the program only in conceptual manner.

D: Understand the issues related to the social security program in Japan and his/her own country only generally, and provide the way for improvement of the program only in conceptual manner.

Absence of more than 2 lectures (4 periods) will not be considered for grading, except for the lecture(s) held at the shopping week. However, absence due to the requirement of the course that the student is enrolling (such as required field trip, etc.) will not be counted as being absent. In that case, students must consult with the course coordinator at AST, and must obtain the permission of the lecturer through the coordinator.

Of course, unexpected circumstances such as illness, etc., will be duly considered.

4. Textbooks and References (4-1:Required 4-2:Others)

4-1 : Lecture notes and necessary materials are provided during the course.

4-2 : Global social security and economic development: Retrospect and prospect (ILO Asia- Pacific Working Paper Series, to which the lecturer has provided a reference report) on ILO website would provide an interesting insights of current status and challenges of social security around the world. World Social Protection Report 2020-22, which is also on ILO website would provide good information about the international practices of social security/protection.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Those who wish to take this class and have taken the lecturers class on social security in Spring semester (in Japanese), please consult with the lecturer in advance.

The contents are subject to change.

(as of March, 2024)

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : PAD2710J

講義名[日本語(英語)] / Class Name : 医療経営論

担当者（フルネーム）/ Course instructor (Full Name) : 田極 春美/TAGOKU Harumi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・木 Thu/6

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

1-1 本講義の概要と目的

わが国の多くの医療機関の場合、収入の大半を社会保険診療収入が占めているが、この医療サービスの対価は公定価格であり、診療報酬は2年ごとに改定が行われる（ちなみに介護報酬は3年ごとに改定）。こうした診療報酬改定への対応は医療経営にとって重要であることはこれまでと変わりはない。しかし、今後、医療経営はますます複雑な環境下に置かれることが予想され、社会・経済情勢の変化等に適切に対応し、医療機関の経営持続性を高めるためには、病院経営者は自院のビジョン（目指すべき目標）やドメイン（事業領域）を明確にするとともに、広く情報を収集・分析しながら将来の環境を予測し適切な資源配分を行うなど、経営力、すなわちマネジメント能力を高めることが必須といえる。

一方、行政側である都道府県は、これまで以上に、地域の医療提供体制の確保・整備に係る役割を強化していくことが求められている。今後、超高齢社会を反映して、地域包括ケアシステムの強化が求められる中、医療だけではなく介護分野に関する動向も抑えつつ、市町村との連携を強化していくことがますます重要となる。こうしたことから、都道府県担当者にとって、医療経営上、どのような法規制が存在するかを把握しておくことはもちろん、民間病院をはじめとする様々な事業者の経営行動を理解しておくことも必要であり、さらには介護保険との関係も抑えておくなど、広範かつ専門的な知識を習得しておくことが必要不可欠な時代となっている。

こうした背景から、本講義は個々の組織の経営から制度経営まで「医療」と「マネジメント」をキーワードに講義を行う。医療経営に直接・間接的に従事する方、あるいは関心を持つ方を対象に、医療経営に必要な基礎知識と、実際の局面で活用できる考え方やスキル等の習得を目的とした講義を行う。このため、講師による講義の他、具体的なケーススタディを用いたグループディスカッションなどを行い、受講者の理解度を確認しながら講義を進める予定である。

なおこの講義の内容は、医療政策コースの①～⑤のすべてのDPに関連する。

1-2 到達目標

- ・経営学の専門用語やマネジメントの視点、考え方、ツール等を修得し、応用しようとする意識を身につけること
- ・講義中に、ディスカッションに積極的に参加し、自身の言葉で論理的に意見を述べつつ、建設的な対話ができるようになること

2. 各授業のテーマ：

各授業のテーマは以下を予定しているが、受講者のバックグラウンドや関心・理解度等により変更す

る。

第1回：オリエンテーション

第2回：医療経営概論～経営戦略論と組織論～（医療経営の概論を説明する。）

第3回：経営戦略論①（トップマネジメントの基本的役割について解説する。）

第4回：経営戦略論②（多角化と事業ポートフォリオ戦略について解説する。）

第5回：ケーススタディ①（発表・ディスカッション）

第6回：ケーススタディ②（発表・ディスカッション）

第7回：ケーススタディ③（発表内容等について解説する。）

第8回：マーケティング論①（マーケティングとは何かを解説する。）

第9回：マーケティング論②（セグメンテーションについて解説する。）

第10回：マーケティング論③（ターゲティングについて解説する。）

第11回：組織論①（組織構造について解説する。）

第12回：組織論②（インセンティブについて解説する。）

第13回：BSC①（営利組織のケースについて解説する。）

第14回：BSC②（非営利組織のケースについて解説する。）

第15回：まとめ（講義の全体のまとめを行う）。

なお受講生は講義後は復習を行い、講義のポイントを十分理解の上、次回講義に臨むこと。また復習時に不明な点が生じたら、積極的に講師に質問すること。

3. 成績の評価方法：

○成績は、以下の3点により評価する。

ただし、講義の進捗状況により変更の可能性がある。その場合は、事前に、受講者と協議の上、行うこととする。

ケーススタディの課題に関する発表、意見交換における議論への貢献度（配分：30%）。

②講義中の発言・質問等、講義への参加態度（配分：40%）。

③試験（配分：30%）。

試験は、記述式の質問を3問程度用意する。経営学についての基礎知識及び応用力を評価する。

○4回以上欠席した場合は成績評価の対象としない。

○A：経営学の専門用語やマネジメントの視点、考え方、ツール等を十分に修得し、講義でのディスカッション・試験等で適切に応用している

B：経営学の専門用語やマネジメントの視点、考え方、ツール等を修得し、講義でのディスカッション・試験等で応用している

C：経営学の専門用語やマネジメントの視点、考え方、ツール等を概ね修得し、講義でのディスカッション・試験等で応用している

D：経営学の専門用語やマネジメントの視点、考え方、ツール等について最低限修得し、講義でのディスカッション・試験等で応用しようとする姿勢がみられる

E：経営学の専門用語やマネジメントの視点、考え方、ツール等について修得できておらず、応用す

ることができない。不合格

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1 必携のテキスト等

特になし

4-2 その他

参考文献については、講義中に適宜指示する。

Philip Kotler, Kevin Lane Keller, Marketing Management

Michael E. Porter, Competitive Strategy: Techniques for Analyzing Industries and Competitors

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

講義は一方的ではなく双方向で行うことを重視している。積極的な姿勢で講義に参加することを期待する。

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : PAD3030J

講義名[日本語(英語)] / Class Name : 医療政策特論Ⅱ

担当者 (フルネーム) / Course instructor (Full Name) : 小野 太一, 泉田 信行/Ono Taichi and IZUMIDA Nobuyuki

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・月 Mon/2

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

この講義の目的は大別すると 3 つあります。1 点目は、日本の医療の実態を踏まえた医療経済学の基礎理論を学習することで、具体的には、ミクロ経済学をベースとした医療経済学のモデルについて、我が国についての実証分析も学びつつ、理論を体系的に理解することを目標とします。2 点目は、医療及び社会保障に係る歴史、海外の情勢についての講義を行い、医療、社会保障に係る縦軸 (歴史) 横軸 (海外) での理解を深めることを目標とします。3 点目は、医療政策コースの学生等履修者がポリシー・ペーパーを執筆するのに有益と思われる講義を行うことです。具体的には履修者の意向・要望等を踏まえてゲストスピーカーをお招きした上で、当該ゲストスピーカーの専門分野に係る知見を深めることを目標とします。

これらを通じ、医療経済学の基礎を理解し、医療経済学の視点をもって医療政策について論じられるようになること、および広く深い視野で医療政策、社会保障政策について考察し、自身の言葉で論じられるようになることを到達目標とします。

医療政策コースの DP は全て関わりますが、特に①、②、③、⑤に関連しています。

*SDGs との関連 : 特に「1.3 各国において最低限の基準を含む適切な社会保護制度及び対策を実施し、2030 年までに貧困層及び脆弱層に対し十分な保護を達成する。」「3.8 すべての人々に対する財政リスクからの保護、質の高い基礎的な保健サービスへのアクセス及び安全で効果的かつ質が高く安価な必須医薬品とワクチンへのアクセスを含む、ユニバーサル・ヘルス・カバレッジ (UHC) を達成する。」に関連していますが、他の項目とも深いかわりを有しています (講義で説明します)

2. 各授業のテーマ :

(順番は変更ありえます)

第 1 回 : 医療経済の基礎 1 (医療に関する財やサービスの特性、効率と平等のトレードオフ等の概念を理解します。)

第 2 回 : 医療経済の基礎 2 (医療に関する情報の非対称性、情報の理解とシグナリング等の概念を理解します。)

第 3 回 : 医療経済の基礎 3 (医療に関する市場の失敗、政府の失敗等の概念を理解します。)

第4回：医療経済の基礎4（医療におけるエージェンシー問題について理解します。）

第5回：医療経済の基礎5（医療における供給者誘発需要仮説について理解します。）

第6回：医療経済の基礎6（医療における保険に係る諸概念（リスクプレミアム、逆選択、クリームスキミング等）について理解します。）

第7回：日本の社会保障の歴史的発展過程（1）（社会保障制度審議会の創設の経緯、発展、今日的意義について理解します。）

第8回：日本の社会保障の歴史的発展過程（2）（社会保障制度審議会の初期の有識者委員の理論と今日的意義について理解します。）

第9回：日本の社会保障の歴史的発展過程（3）（社会保障制度審議会の後期の有識者委員の理論と今日的意義について理解します。）

第10回：諸外国の医療・介護制度（1）（アジア諸国（タイを採り上げる予定）における医療保障制度の構造・発展と課題、日本への示唆を理解します。）

第11回：諸外国の医療・介護制度（2）（社会保険方式で医療保障、介護保障を行う欧米等諸国の制度の構造・発展と課題、日本への示唆を理解します。）

第12回：諸外国の医療・介護制度（3）（税方式で医療保障、介護保障を行う欧米等諸国の制度の構造・発展と課題、日本への示唆を理解します。）

第13回：特別講義（1）及び担当教員によるまとめ（履修者のポリシーペーパーの内容に応じた特定の専門分野における現状と課題を理解します。）

第14回：特別講義（2）及び担当教員によるまとめ（履修者のポリシーペーパーの内容に応じた特定の専門分野における現状と課題を理解します。）

第15回：特別講義（3）及び担当教員によるまとめ（履修者のポリシーペーパーの内容に応じた特定の専門分野における現状と課題を理解します。）

また授業外学修として、資料を予習するとともに、講義内容の復習を行ってください。

3. 成績の評価方法：

筆記試験あるいはレポート（医療経済）50%、期末レポート 20%、講義への参加態度 30%とします。

4回以上欠席した場合は成績評価の対象としません。

医療経済、期末レポートのテーマ（追って指示）のそれぞれにつき、

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

といった視点での評価を行います。

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

日本語のテキストおよび参考文献は開講初日に指示します。英語の参考文献は次のとおり。 Phelps,

Charles E (2017) Health Economics (6th ed.), Routledge.

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

ありません。

6. 聴講の可否

否 Not Allow

7. 履修上の注意：

春学期の「医療政策論」「社会保障総論」及び夏学期の「医療政策特論Ⅰ」の履修者、あるいは「政策論文演習」において講師が主指導となる学生のみ受講を認める予定とします。受講を希望する者は、必ず事前に講師にお申し出ください。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : PAD7681E

講義名[日本語(英語)] / Class Name : Social Security System in Japan

担当者 (フルネーム) / Course instructor (Full Name) : 小野 太一/ONO Taichi

学期・曜日・時限 / Term・Day・Period : 冬学期 Winter/金 Fri/3 金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This class is intended for the international students to understand the social security system (purpose of the class). Students will learn the social security system of Japan to which the lecturer will focus on, but they also learn about the global development of social security from the practice of other countries.

There are wide range of policies that are categorized as Social Security (or Social Protection). They are quite complicated, and affect significantly to the daily lives of people of different age, gender or socio-economic status. It makes the policy makers harder that any individual has his/her own experience and of their family member therefore has something to say about the benefits and services despite that the money and human resources are not infinite; people's expectations are high and dissatisfactions are, unfortunately, also. Because of that nature, however, it is quite interesting and rewarding for politicians and bureaucrats that they devote their intellect and passion for the public to this policy basket filled with hot potatoes.

As is well known, because of the global economic development and the improvement of public health, many countries today have come to enjoy longevity and better health status of their people. At the same time, due to rapid changes in their society such as the urbanization, growth of middle-income class and their demand for better state of life in addition to aging and declining birthrate, establishment/reform of its social security system in universal as well as sustainable manner now has come to the top political priority in many countries. Commitment for the establishment of social security system is reflected in UNs 2030 Agenda for Sustainable Development. For example, SDG 1.3 urges countries to implement nationally appropriate social protection systems and measures for all, including floors, and to achieve substantial coverage of the poor and the vulnerable by 2030. SDG 3.8 calls for countries to achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all.

Japan, which is well known for its longevity and better health status, has more than half-century experience of universal health care and public pension coverage, and universal coverage of long-term care for the elderly for more than two decades. Their history and achievements are filled with various lessons, and it is the achievement goal of this class that the future international leaders who gather at GRIPS (i.e., students) will know them in depth, and will obtain the viewpoints which is necessary for social security policy making after returning to each home country.

2. Course Outline :

For this class, one lecture will be composed of two consecutive periods.

Specific scope of coverage of the course is as below;

- 1: Outline of Social Security (Objective, function, value) and its historical development (1st and 2nd lecture)
- 2: Demography and Family (1st and 5th lecture)
- 3: Healthcare System (Service Provision and Finance) (3rd and 4th lecture)
- 4: Long-term Care (Nursing Care) System (5th lecture)
- 5: Pension System (6th lecture)
- 6: Labor Policy (Workers Compensation Insurance, Unemployment Insurance) (7th lecture)
- 7: Social Welfare Measures to support the underprivileged people including Public Assistance System (7th lecture)
- 8: Measures against Child Welfare and Supporting Child-Rearing (including policies toward declining birthrate) (8th lecture)

*Please note that the 1st lecture will be held on February 14th (not 7th). A make-up lecture (for 2 periods) will be provided sometime in February or March. The lecturer will consult the students when to have that make-up lecture in class.

In class, the lecturer will try to introduce not only the Japanese experiences but international practices as well. Ad-hoc issues, such as extension of social insurance coverage to vulnerable workers, or finding fiscal space for social protection, will also be discussed.

Lectures are provided to give the students the overview of the Japanese social security system in general, the challenges that each of the system is facing, as well as the lessons learnt from the Japanese experiences.

The students will be asked to give brief paper submission, and exchange of dialogue about the status of social security system of the country that he/she is coming from. The style of paper submission/presentation will vary according to the number of the students. The exchange of dialogue session will usually take place at the 7th and 8th lecture, but the details will be announced at the 1st lecture.

After each lecture (from 1st to 8th), every student is asked to submit questions and comments for the days lecture. Lecturer will prepare the responses for every questions and comments raised by the students in a few days after. Students are required to read through the responses along with the class handouts for review.

3. Grading :

Class Participation (including submission of questions and comments and engagement to the exchange of dialogue) 50%, Final Report 50%.

Student will be graded as E (rejection) if he/she cannot prove himself/herself as having sufficient correct knowledge about the basic structure of social security program in Japan and his/her own country.

Grade ABCD will be made as following:

A: Understand the issues related to the social security program in Japan and his/her own country in depth, and provide the way for improvement of the program in concrete and practical manner logically well with his/her own words.

B: Understand the issues related to the social security program in Japan and his/her own country in a satisfactory manner, and provide the way for improvement of the program in concrete and practical manner with his/her own words.

C: Understand the issues related to the social security program in Japan and his/her own country in a satisfactory manner, and provide the way for improvement of the program only in conceptual manner.

D: Understand the issues related to the social security program in Japan and his/her own country only generally, and provide the way for improvement of the program only in conceptual manner.

Absence of more than 2 lectures (4 periods) will not be considered for grading, except for the lecture(s) held at the shopping week. However, absense due to the requirement of the course that the student is enrolling (such as required field trip, etc.) will not be counted as being absent. In that case, students must consult with the course coordinator at AST, and must obtain the permission of the lecturer through the coordinator.

Of course, unexpected circumstances such as illness, etc., will be duly considered.

4. Textbooks and References (4-1:Required 4-2:Others)

4-1 : Lecture notes and necessary materials are provided during the course.

4-2 : Global social security and economic development: Retrospect and prospect (ILO Asia- Pacific Working Paper Series, to which the lecturer has provided a reference report) on ILO website would provide an interesting insights of current status and challenges of social security around the world. World Social Protection Report 2020-22, which is also on ILO website would provide good information about the international practices of social security/protection.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

None

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Those who wish to take this class and have taken the lecturers class on social security in Spring semester (in Japanese), please consult with the lecturer in advance.

The contents are subject to change.

(as of March, 2024)

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : PFP5010E

講義名[日本語(英語)] / Class Name : Practicum at the National Tax Agency

担当者 (フルネーム) / Course instructor (Full Name) : WIE Dainn/WIE Dainn

学期・曜日・時限 / Term・Day・Period : 秋～春前 Fall through Spring(Session I)/月 Mon/1 月 Mon/2
月 Mon/3 月 Mon/4

単位数/ Credits : 8

1. Course Description and the Learning Objectives :

【Outline of this lecture】 The National Tax Agency (NTA) is the administrative agency in charge of imposing and collecting all national taxes except for custom duties in Japan.

The aim of this course is to provide developing countries' tax officials with knowledge on Japanese tax systems, tax administration, and international taxation so that they can contribute to improving tax administration of their respective countries.

【Achievement Goals】 Students who successfully complete this course can;

Understand Japanese tax administration

Identify an issue or problem in their tax administration

Find a solution to the problem in their tax administration

Explain the importance of tax treaty and international cooperation among tax authorities

【Related Diploma Policy】

Public Finance Program DP3

2. Course Outline :

【Course Outline】

Lectures: Learn about Japanese tax system and administration, international taxation

Intensive Lecture on Tax Treaty and Quasi-Tax Treaty Negotiation: Deepen their knowledge of tax treaties

Research Paper Guidance: Complete a research paper with guidance from each advisor

Study Visits: Visit sites related to Japanese tax administration (FYR: Students visited 7 sites such as District Tax Office and Call Center last year.)

【Out-of-class learning】

- Students must deliver a Country Report Presentation at the beginning of this course.
- Students must write a Research Paper on their country's administrative issues and solutions by making use of what they have learned through this course, under the guidance of their advisor. They must submit multiple drafts of their research paper and make a Progress Report presentation in February or March. And they must deliver a final presentation in April.
- Students must prepare the comparison table of tax treaties for Quasi-Tax Treaty Negotiation and make a final report on it.

3. Grading :

Grades will be given based on their contribution to classes, and research paper (contribution to the class: 20 point, research paper: 20 point, total: 40 point).

S, A, B, C and F will be used as a grading scale;

Grade Point Pass / Fail **【Ref.】** Equivalent GRIPS Grade

S 40-36 Pass A 90-100 (Outstanding performance)

A 35-32 B 80-89 (Superior performance)

B 31-28 C 70-79 (Satisfactory performance)

C 27-24 D 60-69 (Minimum acceptable performance)

F 23-00 Fail E 0-59 (Unsatisfactory performance)

4. Textbooks and References (4-1:Required 4-2:Others)

4-1 (scheduled to be distributed at the first class)

1. A textbook on Japanese Tax Administration 2024 Edition, National Tax College

2. Tax Administration 2022, OECD

3. Japan Master Tax Guide 2023-2024, Wolters Kluwer Singapore Pte Limited

4-2

Other handouts and materials will be prepared by instructors.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

- Classes are held every Monday, except during intensive lecture period. However, the afternoon classes often include Study Visits, so there is possibility that students may not be able to attend the class immediately afterward.

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : REG2040J

講義名[日本語(英語)] / Class Name : 食料・農業・農村政策特論Ⅱ

担当者（フルネーム）/ Course instructor (Full Name) : 天羽 隆/AMOU Takashi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・金 Fri/5

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

（概要）

食料・農業・農村政策と他の分野の政策との関係、今日の課題について学び、比較の視座を持ちます。さらに、これを踏まえて、受講生が発言するよう促しながら、知見を深め、議論を進めます。受講生は他の受講生の発言を傾聴し、議論することを通じて気づきを深めます。

また、地方行政、農業技術、食料・農業・農村政策等についての知見を有する外部講師を招いて講義を受け、議論を行います。

関連する DP は、農業政策コースディプロマポリシー①②です。

（到達目標）

- ・各受講生の関心分野を踏まえつつ、自分に政策決定権限があったとして、与件の下で、状況を俯瞰する習慣、また、どのように判断・行動するべきかについて考える習慣を身につけます。
- ・我が国の食料・農業・農村政策について相対的位置付けや他分野との比較の中で考える習慣を習得します。

この講義は、SDGs の以下の目標に関連します。

2 飢餓、3 健康な生活、6 水、7 エネルギー、8 雇用、9 インフラ、11 安全な都市、12 持続可能な生産、13 気候変動、15 生態系・森林

2. 各授業のテーマ：

以下の内容（例）を取扱う予定です。初回のオリエンテーションにおける受講生の関心分野や要望、外部講師との日程調整により、内容や順序を変更する可能性があります。

授業外学修として、授業前にレジュメを概観し、授業後に興味を覚えた文献を参照されたい。

- オリエンテーション（1）
- 政策システム（1）
- 農業と環境（1，2，3）
- 農業・農業政策と脱炭素・SDGs（1）
- 農業・農業政策とスマート・DX（1）
- 農業政策と農村・国土政策（「ふるさと」）（1,2,3）

- 農林水産業と自然災害（１）
- 農業政策と地域振興政策（限界集落対策と商店街対策）（１, 2, 3）
- 農業政策と食品産業政策（１）

3. 成績の評価方法：

成績評価は、講義中の議論への参加又は建設的な議論への貢献（５割）、レポート（５割）を総合して行います。

なお、特段の事情がない限り、３回以上欠席した場合には不合格とします。

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1:必携のテキスト

特になし

4-2:その他

- ・ 安宅和人『シン・ニホンーAI×データ時代における日本の再生と人材育成』
- ・ 戸部良一『失敗の本質ー日本軍の組織論的研究』中公文庫
- ・ 太田猛彦『森林飽和ー国土の変貌を考える』
- ・ デイヴ・エガーズ『ザ・サークル（上・下）』ハヤカワ文庫

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

特になし

6. 聴講の可否

可 Allow

7. 履修上の注意：

特になし

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : REG2100E

講義名[日本語(英語)] / Class Name : Local Government System and Finance

担当者 (フルネーム) / Course instructor (Full Name) : 高田 寛文/TAKADA Hirofumi

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

【Outline of this lecture】

Through this course, students will be exposed to the system and practice of local government administration and finance in Japan and provided with a comparative perspective on local government system in their respective countries.

Students will first learn a description of Japanese public administration, which will be followed by an elaboration on the local government management. Such topics as organizational structure, local public service personnel and local election will be discussed.

Students will then become familiar with current status and issues of local government finance, with a focus on several components of local revenues and expenditures in detail. Some recent issues related to local governance and decentralization reforms will also be presented and explored.

Relevant Diploma Policies (qualities and abilities to be acquired by students): Young Leaders Program Diploma Policy (2) Ability to conduct policy analysis and make practical policy recommendations to solve problems with extensive knowledge on public policy, and (3) Ability to build and develop friendly relations with Japan based on a deep understanding of Japan

【Achievement Goals】

- Students are able to acquire understanding and analytical views on local government system and finance, with a main focus on Japan.
- Students are equipped with perspectives on issues and challenges of local administration, and practical policies and measures for their solution.

2. Course Outline :

- 1: Introduction
- 2: Structure and Organization of Government (1)
- 3: Structure and Organization of Government (2)
- 4: Outline of Local Government (1)
- 5: Outline of Local Government (2), Legal System on Local Government
- 6: Organization of Local Government
- 7: Local Public Service Personnel
- 8: Local Election and Residents Participation
- 9: Roles and Functions of Local Government
- 10: Status of Local Government Finance, Local Tax System (1)

- 11: Local Tax System (2)
- 12: Financial Equalization Mechanism
- 13: Local Bond System and Promotion of Fiscal Soundness
- 14: Decentralization in Japan, Regional Development and Revitalization
- 15: Policy Process and Policymaking

【Out-of-class learning】

Handout will be distributed prior to class, and students must read it and understand the core of its content.

After each class, students have to review the class contents and, when necessary, refer to additional materials to deepen their understanding on related topics of local government and finance.

Students are also advised to consider the applicability and adaptability of the systems and practices of Japan to the context of local government and finance of their respective countries.

3. Grading :

Contribution to class discussion (20%)

Term paper (80%) : The topics of the term paper and the deadline of submission will be announced in the class.

Grade criteria are as follows;

A: Having acquired sufficient knowledge and concepts of local government system and finance at a high level; and is able to clearly present issues and challenges together with their highly effective solutions.

B: Having acquired knowledge and concepts of local government system and finance at a satisfactory level; and is able to present issues and challenges together with their effective solutions.

C: Having acquired knowledge and concepts of local government system and finance in general; and is able to present issues and challenges together with their solutions at a generally acceptable degree.

D: Having acquired the minimum knowledge and concepts of local government system and finance; and is able to present issues and challenges together with their solutions at the lowest acceptable degree.

E: Not acquire knowledge and concepts of local government system and finance; and cannot present issues and challenges together with their solutions. Rejection.

4. Textbooks and References (4-1:Required 4-2:Others)

4-1 Required

No required textbook.

Handouts will be distributed.

4-2 Others

• Council of Local Authorities for international Relations (CLAIR), 2020 Local Government in Japan (2022 Revised Edition)

<https://www.clair.or.jp/j/forum/pub/docs/jichi2022-en.pdf>

• Michio Muramatsu, et al ed., Local Government Development in Post-War Japan, Oxford UP, 2001

• Ministry of Internal Affairs and Communications, White Paper on Local Public Finance, 2023 (FY 2021 Settlement)

https://www.soumu.go.jp/iken/zaisei/r05data/chihouzaisei_2023_en.pdf

- Nobuki Mochida, Fiscal Decentralization and Local Public Finance in Japan, Routledge, 2008

- The Institute for Comparative Studies in Local Governance (COSLOG) of GRIPS, Up-to-date Documents on Local Autonomy in Japan

- COSLOG, Papers on Local Governance System and its Implementation in Selected Fields in Japan

- COSLOG, Historical Development of Japanese Local Governance

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : REG2900J

講義名[日本語(英語)] / Class Name : 地方行政特論

担当者（フルネーム）/ Course instructor (Full Name): 横道 清孝、外部講師/YOKOMICHI Kiyotaka, et al.

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・金 Fri/6

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

総務省自治行政局の行政官から、地方行政及び地域振興に関する国としての問題意識と最新の制度改革及び施策等について学ぶ。地方行政に関する課題や制度改革の方向性及び地域振興の課題やその解決方策等について、より深く理解するとともに、それを踏まえた自治体レベルの対応策を考える力を得ることを目標とする。なお、この講義は「地方行政論」を補完する特別講義として位置づけられる。

関連する DP は、地域政策コースディプロマポリシー①、②

（到達目標）

- ・地方行政の課題と国の取り組みを理解し、説明できる。
- ・地域振興の課題と国の取り組みを理解し、説明できる。
- ・上記の課題や国の取り組みを踏まえた自治体レベルの対応策を提示できる。

2. 各授業のテーマ：

・本授業は、各回120分（初回のみオリエンテーションも含め 150分）である。

- ・以下のとおり、大きく地方行政に関する授業（7回）と地域振興に関する授業（4回）に分かれる。
- ・具体的なテーマ及び担当講師については、改めて通知する。

（地方行政関係）

第1回 10月11日（金）：地方行政の課題と国の取り組み①

第2回 10月18日（金）：地方行政の課題と国の取り組み②

第3回 10月25日（金）：地方行政の課題と国の取り組み③

第4回 11月1日（金）：地方行政の課題と国の取り組み④

第5回 11月8日（金）：地方行政の課題と国の取り組み⑤

第6回 11月15日（金）：地方行政の課題と国の取り組み⑥

第7回 11月22日（金）：地方行政の課題と国の取り組み⑦

（地域振興関係）

第8回 2025年1月10日（金）：地域振興の課題と国の取り組み①

第9回 2025年1月17日（金）：地域振興の課題と国の取り組み②

第10回 2025年1月24日（金）：地域振興の課題と国の取り組み③

第11回 2025年1月31日（金）：地域振興の課題と国の取り組み④

（授業外学修）

各回の授業後に授業内容を復習するとともに、関係資料にも当たって理解を深めておくこと。

3. 成績の評価方法：

- ・ ターム・ペーパー 80%、授業への参加態度 20%
- ・ 3回以上欠席した場合は、成績評価の対象としない。
- ・ A:地方行政及び地域振興に関する課題と国の取り組みを十分理解し、それを踏まえた自治体レベルの対応策を提示できる。

B:地方行政及び地域振興に関する課題と国の取り組みを理解し、それを踏まえた自治体レベルの対応策を提示できる。

C:地方行政及び地域振興に関する課題と国の取り組みを概ね理解し、それを踏まえた自治体レベルの対応策を提示できる。

D:地方行政及び地域振興に関する課題と国の取り組みを最低限理解し、それを踏まえた自治体レベルの対応策を提示できる。

E:地方行政及び地域振興に関する課題と国の取り組みを理解できていない。または、理解しているが、それを踏まえた自治体レベルの対応策を提示できない。不合格

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-2

Local Government in Japan 2020(2021 Revised Edition)/自治体国際化協会（CLAIR）/2022

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

否 Not Allow

7. 履修上の注意：

貴重な機会であるので、学生には意見交換への積極的な参加が特に求められる。

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : REG2940J

講義名[日本語(英語)] / Class Name : 自治体改革論

担当者（フルネーム） / Course instructor (Full Name) : 高田 寛文/TAKADA Hirofumi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・水 Wed/5 水 Wed/6

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

【本講義の概要】

地方分権の進展や少子高齢化・人口減少に伴う地域の活力の維持発展等の必要性の増大を背景に、自治体経営の改革が課題となる中、自治体の組織や運営の見直し、政策・施策の向上について、事例に基づいて学ぶ。

行財政改革や効果的な政策の実施に関わっている自治体幹部や関係団体の職員などの自治関係者を講師に招き、施策の見直しや新たな政策の展開に至った経緯、解決した課題などについて講義を受ける。

本講義による学修を通じて、改革を必要とする問題の発見や改革を進める上での課題の把握と分析、ひいては自治体の政策形成とその実践の在り方について深い理解を得ることを目標とする。

関連するディプロマポリシー（学生が身に着けるべき資質・能力の目標）は、地域政策コースディプロマポリシー①自治体経営や地域活力の維持発展等に関して必要な専門的知識を有し、課題を分析して対処することができる能力、及び②公共政策に係る幅広い知識を持ち、的確な分析、総合的な判断、効果的な実践を行うことができる能力、である。

【到達目標】

- ・自治体経営において改革を必要とする課題を把握し、分析を行うことができる。
- ・改革に係る自治体の政策形成の在り方やその効果的な実践について深い理解を有し、判断することができる。
- ・課題を解決するために必要な政策を具体的に提示することができる。

2. 各授業のテーマ：

各回のテーマと講師については、地方自治を巡る動きなども考慮の上、講義の初回に全体の予定を示す。

各回の授業では、原則約1時間半の講義を受けた後、約30分の質疑・意見交換の時間を設け、これからの自治体改革の在り方について考えていく。

なお、講師の都合によりオンラインにより講義が行われる場合がある。

2023年度は、「地域づくり」「人材・人事」「住民協働」「地域ビジネス」「デジタル化戦略」などをテーマとして、福井県副知事、元東京都総務局長、茨城県西部メディカルセンター病院長、毎日新聞社論説委員、（一財）地域活性化センター人材育成プロデューサー、NPO法人ふくおかNPOセンター代表などを講師に招き、授業を行った。

【授業外学修】

- ・原則として各回の授業に先立って資料を配付するので、改革を必要とした背景や改革の具体的な内容

などを理解するとともに、当該授業のテーマに関して各自と所縁のある自治体における状況を確認しておくこと。

・各回の授業の後には、講義で紹介された文献や資料を調査して講義内容の理解を深めるとともに疑問点があれば確認すること。また、講義で取り上げた改革の遂行に当たっての問題点や当該授業のテーマに係る今後の展望について、できる限り具体の自治体に照らして各自で整理すること。

3. 成績の評価方法：

各講義を踏まえての最終レポートの作成（70%）、各授業への貢献状況（質問・意見交換等）（30%）による。

成績基準は以下のとおりである。

A：自治体における改革の意義と課題について高いレベルで十分に理解し、かつ課題の解決に向けた具体的な政策の在り方を的確に論じることができる。

B：自治体における改革の意義と課題について満足できる水準で理解し、かつ課題の解決に向けた具体的な政策の在り方を論じることができる。

C：自治体における改革の意義と課題について概ね理解し、かつ課題の解決に向けた具体的な政策の在り方を一定程度論じることができる。

D：自治体における改革の意義と課題についての理解と、課題の解決に向けた具体的な政策の在り方について論じることが、最低限の水準でできている。

E：自治体における改革の意義と課題についての理解が足りず、また課題の解決に向けた具体的な政策の在り方について論じることができていない。不合格。

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1:必携のテキスト

テキストは用いない。

原則として資料を事前配付する。

参考文献は、授業の中で必要に応じ紹介する。

4-2:その他

総務省ホームページ（地方公共団体の行政改革等）

<https://www.soumu.go.jp/iken/main.html>

Council of Local Authorities for International Relations (CLAIR), Local Government in Japan 2020 (2022 Revised Edition)

<https://www.clair.or.jp/j/forum/pub/docs/jichi2022-en.pdf>

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

該当なし

6. 聴講の可否

可 Allow

7. 履修上の注意：

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : REG3120J

講義名[日本語(英語)] / Class Name : 「食」を通じた地域振興論

担当者（フルネーム）/ Course instructor (Full Name) : 埴 靖幸/HANAWA Yasuyuki

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・水 Wed/3 水 Wed/4

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

（1）目的

農林水産物やその加工品を地域の魅力と位置付け、農林水産業、食品産業、観光産業等との連携を進めて地域経済を活性化すること（「食」を通じた地域振興）が、地方自治体にとって、重要な課題となっている。このため、農林水産物の高付加価値化と販路の拡大、ブランド化、6次産業化などの対策を具体的に企画・立案するとともに、効果的に実践するための知識・技能を修得することを目的とする。その際、地域の独自性を強みに昇華させる構想力、民間企業等を含む多様な関係者との協働を進めるコーディネート力、これら関係者とのネットワーク構築を重視する。関連するDPは、農業政策コースディプロマポリシー①②③及び⑤である。

食と農をはじめ地域資源を活用した地域振興は、日本各地の地域で重要な課題となっており、農業政策コース以外の学生の受講も歓迎する。

（2）講義の進め方

受講者は、「食」を通じた地域振興対策について、各自で対象とする地域、テーマを選定し、各回の講義を通じて当該テーマに関する考察を深め、最終講義時にその成果をレポート案として発表する。この講義では、「食」に関連するビジネスの最新動向を踏まえ、より実践的な知識・技能習得を図るため、必要に応じて、小売業、食品製造業、観光業、地域金融機関等の関連産業の実務者、地方自治体の政策担当者をゲストスピーカーとして招き、最新の取組や先進事例に関する情報を収集するとともに、ゲストスピーカーを交えてディスカッションを行うこととする。

この講義は、SDGsの以下の目標に関連する。（2 飢餓、3 健康な生活、6 水、7 エネルギー、8 雇用、9 インフラ、11 安全な都市、12 持続可能な生産、13 気候変動、15 生態系・森林）

（3）到達目標

- ・ ゲストスピーカーの講義を通じ、各地域の振興に関する最新の取組や先進事例等を理解できる。
- ・ 上記理解を前提として、ディスカッション等を通じて、地域振興を進める上で必要とされる実践的な知識・技能を修得できる。
- ・ 上記理解を前提として、自らが想定する地域の課題を抽出し、その解決策を提示できる。

2. 各授業のテーマ：

以下の内容を取り扱う予定である（全8回、1回90分×2）。なお、初回のガイダンスにおける受講者の要望確認やゲストスピーカーの日程調整等により、内容・順序を変更する可能性がある。

- ・ ガイダンス、関心の高いテーマに関する意見交換
- ・ 小売業との連携による地域活性化

- ・ 食品製造業との連携による地域活性化
- ・ 観光業との連携による地域活性化
- ・ 地域金融機関との連携による地域活性化
- ・ 地域資源を活用した農村づくり
- ・ 「つながり」に着目した地域産業振興
- ・ レポート案の発表

【授業外学修】

- ・ 各授業前に授業資料を配布するので、それを読んでゲストスピーカーへの質問事項等を考えておくこと。
- ・ 授業後は、最終的に提出するレポートの作成に向けて、授業資料を再度読み直し、必要に応じ参考資料を読むなどして理解を深めること。
- ・ 最終講義は、各自がレポート案を発表しディスカッションを行うので、その発表のための準備をすること。

3. 成績の評価方法：

- ・ 成績評価は、ディスカッション等授業への貢献（50%）、レポート（50%）で行う。
- ・ 特段の事情なく3回以上欠席した場合は、成績評価の対象としない。
- ・ A: 到達目標について高い水準で達成している
- ・ B: 到達目標について満足できる水準で達成している
- ・ C: 到達目標について概ね達成している
- ・ D: 到達目標について最低限の水準は達成している
- ・ E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1：必携のテキスト

テキストはなく、各回、授業資料を配布する。

4-2：その他

以下の文献を参照することをお勧めする。

令和4年度食料・農業・農村白書（令和5年5月26日公表）
https://www.maff.go.jp/j/wpaper/w_maff/r4/index.html

斎藤修監修、斎藤修・佐藤和憲編『フードチェーンと地域再生（フードシステム学叢書第4巻）』

農林統計出版

神井弘之『食の信頼問題の実践解—フードシステムにおける協働のデザイン—』農林統計出版

Jayson L. Lusk, Jutta Roosen, & Jason Shogren. (2011). The Oxford handbook of the economics of food consumption and policy. Oxford University Press.

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

特になし

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number :

講義名[日本語(英語)] / Class Name : Selected Topics in Policy Studies (Social issue workshop for business-driven innovation)

担当者 (フルネーム) / Course instructor (Full Name) : 原田 志保/HARADA Shiho

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall /火 Tue/2

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

The aim of this class is for students to study cases where Japanese corporations have leveraged their technologies to tackle social challenges overseas, and to discuss among themselves how private enterprises can drive progress in addressing such social issues. As agents for addressing social issues, private companies play a crucial role. However, when expanding operations overseas, many encounter difficulties due to an insufficient understanding of local conditions and resident needs, as well as challenges in comprehending regulations and rules, resulting in numerous cases where business operations cannot proceed smoothly. Throughout this class, we will explore the underlying causes of these challenges and investigate potential solutions by examining real-world corporate cases presented by industry professionals, followed by discussions among students.

In addition, students will learn group discussion methodologies. They will be divided into multiple groups, each discussing the social issue outlined in the case study and examining different resolutions. Professor Ayano Nishihara from Rikkyo University will instruct on group discussion methodology during the first session of the class.

Throughout this class, students will have the opportunity to learn specific case studies from Japanese corporations, thereby enhancing their understanding of corporate operations. Furthermore, through interactions with corporate representatives and discussions among international students, they can deepen their understanding of the social issues encountered across diverse countries and consider more effective solutions. Since this class is offered for students across all the programs at GRIPS, discussions among students with different areas of expertise can broaden perspectives.

[Related Diploma Policy (DP)]

MEP1 MEP2: DP2

MSP: DP4

公共政策プログラム(Public Policy Program (Japanese))

地域政策コース(Regional Policy Concentration): DP②

インフラ政策コース (Infrastructure Policy Concentration): DP②

防災・危機管理コース (Disaster Risk Management Concentration): DP⑤

医療政策コース (Healthcare Policy Concentration): DP②

科学技術イノベーションコース (Science, Technology, and Innovation Policy Concentration): DP②

国際協力コース (International Cooperation Concentration): DP②

まちづくり政策コース (Urban Policy Concentration): DP②

総合政策コース (Open Concentration): DP②

科学技術イノベーション政策プログラム (Science, Technology, and Innovation Policy Program): DP②

国際的指導力育成プログラム (Global Leadership Development Program): DP③⑤

科学技術イノベーション政策プログラム(博士課程) (Science, Technology, and Innovation Policy Program (Doctor)): DP②

政策プロフェッショナルプログラム (博士課程) (Policy Professional Program (Doctor)): DP③

[Course Goals]

Students can:

tackle social issues and understand the policies, systems, and other societal responses necessary to harness the technological capabilities of private enterprises, applying them to similar social issues within their respective countries.

clearly explain examples of social issues within their respective countries and the challenges encountered in resolving those issues.

engage proactively in group discussions and acquire the following critical aspects of group discussions: 1) Have your own opinions, 2) Communicate appropriately, 3) Listen carefully to the viewpoints of others, 4) Offer constructive insights and counterpoints, and 5) Maintain a holistic perspective while also paying attention to details.

2. Course Outline :

Method of Group Discussion: Special lecture by Associate Professor Ayano Nishino (College of Business Department, Rikkyo University)

Practical Training of Group Discussion

Social Issue Case 1. Panasonic "Energy Solutions Evolution for New Zealand Green Initiatives" (tentative)

Group Discussion of Case 1.

Social Issue Case 2. Kao Corporation "Mosquito Repellent in Thailand." (tentative)

Group Discussion of Case 2.

Social Issue Case 3. JR East "High-Speed Railway Project in India" (tentative)

Group Discussion of Case 3.

[Out-of-class Learning]

Read materials related to group discussions and methodologies (posted in the Textbooks section.)

Familiarize yourself with the outline of the case and theme provided by each company prior to class. If

your country encounters a comparable social issue, research previous projects that tackled the issue and obstacles that surfaced during such projects.

3. Grading :

Active engagement during class sessions and group discussions will carry the greatest weight.

At the end of the class, submit a term paper of approximately 1000 words addressing one social issue in your own country and proposing solutions.

[Evaluation Criteria]

P (Pass: Achieved the goals)

F (Fail: Did not achieve the goals)

4. Textbooks and References (4-1:Required 4-2:Others)

UNSW Sydney, Guide to Discussion Skills

<https://www.student.unsw.edu.au/discussion-skills>

Reference materials

The Student Guide to the Case Method. IVEY School of Business Foundation. (Available from GRIPS library.)

Other materials may be distributed by the lecturer or the company providing the case.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI1000E

講義名[日本語(英語)] / Class Name : Economics of Innovation

担当者 (フルネーム) / Course instructor (Full Name) : INTARAKUMNERD
Patarapong/INTARAKUMNERD Patarapong

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Students should have basic knowledge on microeconomics and macroeconomics before taking this course. This course will be a foundation for further studies in other subjects of science, technology and innovation policies. It focuses on economic explanation of technical change and innovation at four levels: micro (firm), meso (industrial sector, regional, and geographical cluster), national, and global.

Students will learn four modules:

- A) Micro level: understanding knowledge, science, technology and innovation
- B) Meso level: industrial dynamics, regional and sectoral innovation systems, and clusters
- C) Macro level: the roles of national innovation systems and globalization
- D) Important issues: roles of finance, universities and intellectual property right

By studying these four modules, the learning goal for the student is to be able to explain how innovation happened, diffuse and use.

[Related Diploma Policy (DP)]

Science, Technology and Innovation Policy Program (STI) (Master)

Highly relevant: 2

Partially relevant: 1 and 3

2. Course Outline :

Class	Topic	Textbook: Chapter
1	Module A:	
2	Introduction: what is innovation and why does it matter?	1/13 (Ox)
3	Basic concepts on economics of knowledge, S&T, and innovation	2 (Ox)/5 (HR)
	Technological change and innovation in theories of firms	16 (HR)
4	Module B:	
5	Economics of industrial evolution	3 (HR)
6	Systems of innovation concept	7 (Ox)/27 (HR)
7	Sectoral innovation system	14 (Ox)
	Regional innovation system and industrial cluster	11 (Ox)/8 (HR)
8	Module C:	
9	National innovation system and technological catching up	19 (Ox)/20 (HR)
10	Globalization and the roles of transnational corporations	12 (Ox)
11	Global value chain and production network	20 (Ox)
	Diffusion and impacts of General Purpose Technologies	17/18 (HR)
12	Module D:	
13	Innovation Financing	9 (Ox)/14 (HR)
14	universities/public research institutes and industry interaction	8 (Ox)/6 (HR)
	Intellectual property rights and innovation	10 (Ox)/7 (HR)
15	General discussion and conclusion	

3. Grading :

Students are expected to be able to explain how innovation happened, diffuse and use.

Evaluation for the course will be based upon the following:

contribution to the lecture through remarks and questions in class (20%), and final examination (80%)

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Fargerberg, J., Mowery, D. and Nelson, R. (eds.) (2005), Oxford Handbook of Innovation, Oxford University Press: New York, USA (Ox)

(downloadable from

https://www.academia.edu/38930379/THE_OXFORD_HANDBOOK_OF_INNOVATION_Edited_by)

Hall, B. and Rosenberg, N. (eds.) (2010), Handbook of the Economics of Innovation, Elsevier, Amsterdam (HR)

(downloadable at GRIPS through GRIPS's institutional paid account from

<https://www.sciencedirect.com/handbook/handbook-of-the-economics-of-innovation>)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

Out of class learning: students are expected to read assigned book chapters before classes. Time required is about 4 hours per week.

Email address: patarapong@grips.ac.jp; prpu6@hotmail.com

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI2060J

講義名[日本語(英語)] / Class Name : 高等教育・産学連携政策(水、19:30～21:00)

担当者 (フルネーム) / Course instructor (Full Name) : 隅藏 康一/SUMIKURA Koichi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

産学連携の活性化は、知的財産政策ならびにイノベーション政策のいずれの観点からも、最重要課題の一つとして位置づけられる。大学側の組織である大学知的財産本部や技術移転機関 (TLO) において、また企業側の産学連携担当部署において、基礎的な技術シーズの「目利き」の能力を持ち、そのシーズをさらに発展させるべくマネジメントを行うことが求められている。本講義では、産学連携に関する政策が日本や米国においてどのようにデザインされてきたかをたどり、具体的な成功例・失敗例を踏まえながら今後の課題と解決策を議論する。

【関連するディプロマポリシー(DP)】

科学技術イノベーション政策プログラム (修士課程)

特に強く関係する DP :

①科学技術イノベーションとその政策に関する学術的知識を有し、それらを政策課題に対して応用することができる能力

一部関係する DP:

② 公共政策に係る知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、分析ができる能力

③科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築し、定量的・定性的データ等を活用して分析を行い、それらを政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

④科学技術イノベーション政策の形成や実施の実務に関する理解を有し、理論と実務を架橋した実践的な政策提言ができる能力

⑤グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーおよびフォロワーとしての役割を自覚して活躍できる能力

【到達目標】

産学連携に関する政策が日本や米国においてどのようにデザインされてきたかを理解し、具体的な成功例・失敗例を踏まえながら今後の課題と解決策を考えることができる。

2. 各授業のテーマ :

1. イントロダクション：大学の役割、産学連携の類型化
2. 科学技術イノベーション基本法・基本計画、知的財産推進計画
3. 大学発スタートアップ、スタートアップ・エコシステム
4. 産学連携人材の育成
5. 米国の政策：バイ・ドール法
6. 米国の事例：コーエン・ボイヤーの遺伝子組み換え技術
7. 米国の事例：AUTM の統計資料より
8. リサーチ・アドミニストレーター の役割
9. 大学知財ガバナンス・ガイドライン
10. 研究インテグリティと秘密保持、利益相反
11. 各種データに見る、日本における課題（科学技術指標）
12. スター・サイエンティストの育成
13. プレゼンテーション (1)
14. プレゼンテーション (2)
15. まとめ

【授業外学修】

講義内で示された資料を読んで内容を把握する。講義内で行うプレゼンテーションの準備をする。

3. 成績の評価方法：

講義における討論への参加と貢献度：50%

プレゼンテーションとその資料の提出（論理性、独創性、資料の完成度、引用の適切性、質疑応答への対応、他の学生のプレゼンテーションに対する質問など）：50%

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1.

Martin Kenney and David Mowery (2014) "Public universities and regional growth: insights from the University of California"

<http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&lang=ja&AN=77890>

6

（GRIPS 図書館に電子書籍があります）

隅藏康一（2021） 「大学を源泉とする知の移転」，研究技術計画, Vol.36, No.3, p.271-289.

https://www.jstage.jst.go.jp/article/jsrpim/36/3/36_271/_article/-char/ja/

4-2.

「科学技術イノベーション政策の科学 コアコンテンツ」 <https://scirex-core.grips.ac.jp/>

高橋真木子・古澤陽子・枝村一磨・隅藏康一『日本のアカデミアにおける研究推進・活用人材・競合から協働へと向かう産学官連携コーディネーターと URA-』GRIPS DISCUSSION PAPER 18-11
(2018) <http://doi.org/10.24545/00001639>

講義資料は各講義で配布します。

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

受講者は、講義内で定められた課題について、少なくとも2回のプレゼンテーションを、講義内で行っていただきます。そのための準備も必要となります。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI2080E

講義名[日本語(英語)] / Class Name : Comparative Analysis of Science, Technology and Innovation Policy: Asian Experiences

担当者 (フルネーム) / Course instructor (Full Name) : INTARAKUMNERD Patarapong/INTARAKUMNERD Patarapong

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/1

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course is a combination of lectures and seminars. Students will study theoretical and fundamental knowledge of science, technology and innovation (STI) policies. Based on such knowledge, seminars will be held to discuss STI policy experiences of several groups of countries classified by level of economic development and technological catching up. The learning goal of students is to be able to understand similarities and differences of STI policy across countries and underlying rationales.

[Related Diploma Policy (DP)]

Science, Technology and Innovation Policy Program (STI) (Master)

Relevant: 1 and 4

Partially relevant: 2, 3 and 5

2. Course Outline :

Week

- 1: Introduction: From S&T Policy to STI Policy (Lecture)
- 2: STI policy: Framework and Policy Instruments (Lecture)
- 3: Experiences of Large Developed country: USA (Seminar)
- 4: Experiences of Large Developed Country: Germany (Seminar)
- 5: Experiences of Small Developed Countries: Scandinavian Countries (Seminar)
- 6: Experiences of the First Industrialized Country in Asia: Japan (Seminar)
- 7: Experiences of Small Industrialized Country: Israel (Seminar)
- 8: Experiences of Newly Industrialized Country: Korea (Seminar)
- 9: Experiences of Newly Industrialized Country: Taiwan (Seminar)
- 10: Experiences of Newly Industrialized Country: Singapore (Seminar)
- 11: Experiences of Emerging Asian Super Power: China (Seminar)
- 12: Experiences of Emerging Asian Super Power: India (Seminar)
- 13: Experiences of Second-tier Newly Industrializing Economies: Malaysia and Thailand (Seminar)
- 14: Comparing innovation policies across countries: what have we learnt so far (Seminar)
- 15: STI Policies in the 21st century (Lecture)

3. Grading :

Evaluation for the course will be based upon term papers (60%), presentations (30%) and contribution to the lecture through remarks and questions in classes (10%).

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

(electronics files will be given to students on the first week of the class)

Week

1: Introduction: From S&T Policy to STI Policy

Lundvall. B. and Borrás. S. (2005). 'Chapter 22: Science, Technology and Innovation Policy', in Fagerberg, J., Mowery, D. and Nelson, R. (eds.), Oxford Handbook of Innovation, Oxford University Press: New York, USA, 599-631.

Woolthuis, R. K. et al., 2005. 'A system failure framework for innovation policy design', Technovation, 25 (5): 609-619.

2: STI policy: framework and policy instruments

Lall, S. and Morris, T. (1998). "Market-stimulating" technology policies in developing countries: A framework with examples from East Asia,' World Development 26 (8), 1369-1385

Edquist, C. and Chaminade, C. (2006). Industrial Policy from a systems-of-innovation perspective, No. 5/2006, EIB series papers, Economics Department, European Investment Bank.

3: Experiences of Large Developed country: USA

Mowery, D. and Rosenberg (1993), 'the US Innovation System', in Nelson, R. (ed.), National Systems of Innovation: A Comparative Study, Oxford: Oxford University Press 29-75.

Mazzucato, M. (2013). The Entrepreneurial State: Debunking Public vs. Private Sector Myths, Chapter 4-5,

London and New York: Anthem Press

4: Experiences of Large Developed Country: Germany

Meyer-Krahmer, F.. (2001), 'The German Innovation System,' in Laredo, P. and Mustar, P., *Research and Innovation Policies in the New Global Economy*, Edward Elgar: Cheltenham, UK, 15-46

Eickelpasch, A. and Fritsch, M. (2005) *Contests for cooperation--A new approach in German innovation policy*, *Research Policy*, Elsevier, vol. 34(8), pages 1269-1282, October

.

5: Experiences of Small Developed Countries: Scandinavian Countries

Ormal, E/ (2001), 'Science, Technology and Innovation Policy in Finland' in Laredo, P. and Mustar, P., *Research and Innovation Policies in the New Global Economy*, Edward Elgar: Cheltenham, UK, 325-358

Edquist, C. and Lundvall, B.A. (1993), 'Comparing Swedish and Danish Systems of Innovation, in Nelson, R. (ed.), *National Systems of Innovation: A Comparative Study*, Oxford: Oxford University Press 265-298.

6: Experiences of the First Industrialized Country in Asia: Japan

Goto, A. and Odagiri, H. (1996), *Technology and Industrial Development in Japan: Building Capabilities by Learning, Innovation and Public Policy*, chapter 2-3, Oxford University Press: Oxford, 17-63.

Odagiri, H. (2006), 'Advance of Science-based industries and the changing innovation system in Japan, 'in Lundvall, B., Intarakumnerd, P., Vang, J. (eds) (2006), *Asian Innovation Systems in Transition*, Cheltenham, UK and Northampton, USA: Edward Elgar, 200-226.

7: Experiences of Small Industrialized Country: Israel

Getz, D. and Segal, V. (2008), 'The Israeli innovation system: An overview of national policy and cultural aspects', A Report prepared by Samuel Neman Institute for Public Policy Research.

Avnimelech, G. and Teubal, M. (2006) *Creating venture capital industries that co-evolve with high tech: Insights from an extended industry life cycle perspective of the Israeli experience*, *Research Policy* 35 (2006) 1477-1498

8: Experiences of Newly Industrialized Country: Korea

Kim L., (1999), 'Building Technological Capability for Industrialization: Analytical Frameworks and Korea's Experience,' *Industrial and Corporate Change*, 8(1):111-136.

Hwang, H-R., and Choung J-Y. (2013), 'Towards and Innovation Policy in the Post Catch-up Era,' *Asian Journal of Innovation and Policy*, 2(1): 1-19.

9: Experiences of Newly Industrialized Country: Taiwan

Lauridsen, L. (2008), 'Industrial Upgrading: Industrial Technology Policy in Taiwan', in Lauridsen, L. (2008), *State, Institutions and Industrial Development: Industrial Deepening and Upgrading Policies in Taiwan and Thailand Compared*, Shaker Verlag: Aachen, 442-513.

Mathews, J. (2002), 'The origins and dynamics of Taiwan's R&D consortia' *Research Policy*, 31(4), 633-651

10: Experiences of Newly Industrialized Countries: Singapore

Wong, P. and Anneth, S. (2011) 'OECD Review of Innovation in South-East Asia: Country Profile: Singapore'. Paris: OECD

Yeung, H. (2006), 'Innovating for Global Competition: Singapore's Pathway to High-tech Development', in Lundvall, B., Intarakumnerd, P., Vang, J. (eds) (2006), *Asian Innovation Systems in Transition*, Cheltenham, UK and Northampton, USA: Edward Elgar, 178-199

11: Experiences of Emerging Asian Super Power: China

Feng-chao Liu, Denis Fred Simon, Yu-tao Sun, Cong Cao, (2011), 'Chinas innovation policies: Evolution, institutional structure, and trajectory' *Research Policy*, 40 (7): 917-931

Chu, W. (2011), 'How the Chinese Government Promoted Global Automobile Industry,' *Industrial and Corporate Change*, 20 (5), 1-42

12: Experiences of Emerging Asian Super Power: India

Athreye S. (2005), 'The Indian software industry and its evolving service capability' *Industrial and Corporate Change*, 14(3): 393-418

Athreye, S., Kale, D., Ramani, S. (2009), 'Experimentation with strategy and the evolution of dynamic capability in the Indian pharmaceutical sector,' *Industrial and Corporate Change*, 18(4): 729-759

13: Experiences of Second-tier Newly Industrializing Economies: Malaysia and Thailand

Rasiah, Rajah (2006), 'Explaining Malaysia's Export Expansion in Palm Oil and Related Products,' in V. Chandra (ed.) *Technology, Adaptation, and Exports — How Some Developing Countries Got It Right*, World Bank, Washington DC.

Intarakumnerd, P. (2015). 'Seven Unproductive Habits of Thailand's Ineffective Technology and Innovation Policies: Lessons for other Developing Countries,'
Institutions and Economies, 7 (1), April 2015, pp. 80-95.

14: No reading materials

15: STI Policies in the 21st century

Maria Abreu, Vadim Grinevich, Michael Kitson & Maria Savona (2010), 'Policies to enhance the 'hidden innovation' in services: evidence and lessons from the UK', The Service Industries Journal, 30:1, 99-118

Todtling, F. and Trippl, M (2005), 'One size fits all?: Towards a differentiated regional innovation policy approach', Research Policy, 34(8), 1203-1219

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow
否 Not Allow

7. Note :

Out of class learning: students are expected to read assigned book articles before classes. Time required is about 4 hours per week

Email address: [REDACTED]

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI2160E

講義名[日本語(英語)] / Class Name : Outline of Energy Policy

担当者 (フルネーム) / Course instructor (Full Name) : 高橋 一彰/TAKAHASHI Kazuaki

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/金 Fri/3 金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

Energy is essential for living standard in the modern economy. Each country conducts its own energy policy for securing energy supply sufficient to increasing demand by the economic growth, maintaining the cost within affordable levels and considering environmental concern simultaneously.

This class explores the energy situation, energy policy challenges and possibilities from various perspectives, including the basic principle 3E+S (Safety, Energy Security, Economic Efficiency and Environment). Students will identify and compare the characteristics of the energy situation and energy policy and potential solutions for sustainable energy policy in each country for effective understanding.

This course is related to the following SDGs:

7 (Energy), 8 (Economic Growth),13(Climate Action)

[Related Diploma Policy (DP)]

One-year Masters Program of Public Policy (MP1): ⑤

Two-year Masters Program of Public Policy (MP2): ⑤

Science, Technology and Innovation Policy Program (STI)(Master): ①②③④⑤

[Course Goals]

Students can:

- (1) identify the challenges to be solved for developing sustainable energy policy
- (2) discuss the challenges and potential solutions
- (3) raise the issues need to be studied in more detail to get meaningful policy framework

2. Course Outline :

Week1-1 Introduction

Main Objectives of Energy Policy, Global Supply and Demand Figure, Historical View of Energy Policy etc.

Week1-2 Policy Framework

Safety, Energy Security, Economic Efficiency and Environment as the principle of energy policy

Week2-1 Oil and Gas Security Policy

Oil and natural gas policy for the security of energy supply (Prof. Nei)

Week2-2 Clean Energy System

Technologies for a sustainable energy system, such as energy saving, renewables, hydrogen and CCUS, and framework of Japanese Energy Policy (Prof. Nei)

Week3-1 Energy Measures that Provide Co-benefits

Energy measures with co-benefits for health, pollution reduction, resilience etc. (an expert will be invited as a speaker)

Week3-2 Energy Situations (group discussion)

Comparison of energy supply and demand and other energy situations in each country

Week 4 Electricity and Nuclear Energy Policy

Measures for resilient electricity infrastructure, including nuclear energy's role in energy policy (Prof. Nei)

Week5-1 Nuclear Safety after Fukushima Accident

An overview of the nuclear accident at Fukushima Daiichi NPS and the response to it (an expert will be invited as a speaker)

Week5-2 Measures to Implement Energy Policy Energy Policies (group discussion)

Trends and challenges in energy conservation and renewable energy deployment

Comparison of energy policies in each country

Week6-1 Latest Energy Policy in Japan

The direction of Japan's energy policy and the promotion of decarbonization in Asia under AZEC (an expert will be invited as a speaker)

Week6-2 Energy and Environment

Policy on environmental pollution and climate change caused by energy use

Week7-1 Environment Impact Assessment

Environmental impact assessment as a means of promoting harmonious energy policies (an expert will be invited as a speaker)

Week7-2 Energy Policy Challenges (group presentation)

Energy policy characteristics and challenges in each country

Week8-1 Recent Trends in Measures to Combat Climate Change

The latest discussions and developments on climate change at national and international level (an expert will be invited as a speaker)

Week8-2 Discussion of Energy Policy for the Future

Comprehensive discussion of energy policy based on what has been learnt in this course

※Term Paper should be submitted by Tuesday of the next week of Week 8.

※Contents of the Course might be changed due to inquiries or expectations of students.

[Out-of-class Learning]

Students are expected to be active participants in class and to develop a mutual understanding of each country's situation through discussion.

After class, students should review the contents of the lecture, make comment for each day and prepare for group discussion/presentation and term paper.

3. Grading :

Term paper 40%, Group discussion/presentation 30%, Comment sheet for each day 30%.

Term paper is composed of about 1000 words.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

① World Energy Outlook 2023, International Energy Agency(IEA)

<https://origin.iea.org/reports/world-energy-outlook-2023>

② White Paper of Energy in Japan 2024 (Japanese)

<https://www.enecho.meti.go.jp/about/whitepaper/2024/pdf/>

③ Energy Policies of IEA Countries; Japan 2021 Review

<https://www.iea.org/reports/energy-policies-of-iea-countries-japan-2020-review>

④ 6th Strategic Energy Plan, Government of Japan, 2021

https://www.enecho.meti.go.jp/en/category/others/basic_plan/pdf/6th_outline.pdf

⑤ Countries and regions, International Energy Agency(IEA) website

<https://www.iea.org/countries>

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI2230E

講義名[日本語(英語)] / Class Name : Energy Data Analysis

担当者 (フルネーム) / Course instructor (Full Name): 高橋 一彰, 根井 寿規/TAKAHASHI Kazuaki and NEI Hisanori

学期・曜日・時限 / Term・Day・Period : 秋後期 Fall (Session II)/金 Fri/3 金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

Energy data analysis is the foundation for developing sound national energy policies as it shows where interventions are required and what opportunities are available. Many countries struggle to make informed policy decisions at the national level because of lacking qualified energy data analysis. The pressures and complexities of international energy markets and the imperatives of global issues such as climate change mean that countries need to understand and comply with international conventions on monitoring and reporting. The job of an energy data analysis is more complex than ever before and requires the ability to ensure the quality, consistency and compatibility of energy data.

You will gain a broad understanding of energy systems as a whole, covering supply and demand, the interrelationships and dependencies between different sectors and a multi-vector multi-sector approach to analysis. You will learn about the theory and practice of data analysis and will gain practical experience of the challenges of working with different data sets relating to energy throughout the program and modules.

We will provide a software to develop an economic outlook model and energy data base by free of charge.

Especially Master Course students could use the outcome of this course for writing their policy papers or independent studies with energy and economic outlook.

This course is jointly conducted with the Institute of Energy Economics, Japan.

This course is related to the following SDGs:

7 (Energy), 8 (Economic Growth), 13 (Climate Action)

[Related Diploma Policy (DP)]

One-year Masters Program of Public Policy (MP1) ⑤

Two-year Masters Program of Public Policy (MP2) ⑤

Science, Technology and Innovation Policy Program (STI)(Master) ①②③④⑤

[Course Goals]

Students can:

- (1) identify the challenges to be solved for developing sustainable energy policy
- (2) discuss the challenges and potential solutions
- (3) raise the issues need to be studied in more detail to get meaningful policy framework

2. Course Outline :

Week1-1 Introduction

Structure and schedule of the class

Week1-2 Introduction (cont.)

Introduction of model analysis

Week2-1 Introduction of Energy Balance Chart

Energy flow, Self-sufficient rate etc.

Week2-2 Analysis of Energy Balance Chart

Explanation and exercise

Week3-1 Statistics of Energy

Examples of major statistics (IEA, BP etc.), Unit conversion

Week3-2 Introduction of Model Analysis

Explanation of useful models such as Optimization model, General equilibrium model etc.

Week4-1 Introduction of Model Development

Economate, Simple Model

Week4-2 Exercise of Model

Exercises based on given tasks

Week5-1 Model Analysis

Make a model based on Energy Balance Chart

Week5-2 Model Analysis

Analysis on each sector such as residential, transportation, industry etc.

Week6-1 Exercise of Model

Exercises based on given tasks

Week6-2 Exercise of Model

(Individual guidance to improve the Model)

Week7 Exercise of Model

(Preparation for the presentation)

Week8-1 Presentation

Presentation

Week8-2 Presentation and Wrap up

Presentation and comprehensive discussion based on what has been learnt in this course

※Contents of the Course might be changed due to inquiries or expectations of students.

[Out-of-class Learning]

Students are expected to be active participants in the class. After class, students should review the contents of the lecture and prepare for presentation.

3. Grading :

Discussion at the class 20%, Homework 20%, Presentation 60%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

① Statistical Review of World Energy

<https://www.energyinst.org/statistical-review>

② Eurostat Statistic Explained - Energy Balance

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Energy_balance_-_new_methodology

③ World Energy Balances - IEA

④ EDMC Handbook of Japans & World Energy & Economic Statistics - The Energy Data and Modelling Center, The Institute of Energy Economics, Japan

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

Registered students should have their own PC running Microsoft Windows 7,10 or 11, not a Mac in the class. The Economate software will be provided for free of charge, which is a PC-based software package designed to forecast and analyze policy options using the econometric method. We will deliver the Economate at the end of the course on Week 2. If you cannot successfully install it on your PC, it might be difficult to take this course.

We will also provide the Access Code and Password to the EDMC data bank, which is an energy data base provided by IEEJ for free.

開講年度（2024.4月-2025.3月）/ Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI2250J

講義名[日本語(英語)] / Class Name : 計量分析演習

担当者（フルネーム） / Course instructor (Full Name) : 鈴木 潤/SUZUKI Jun

学期・曜日・時限 / Term・Day・Period : 秋前期・Fall (Session I)・土 Sat/3 土 Sat/4

単位数/ Credits : 2

1. 本授業の概要及び到達目標：

EBPM（エビデンスに基づく政策立案）のための政策効果の測定には、各種サーベイ結果や統計等のデータの活用が欠かせない。本講義は、基本的なデータ分析を学生自らが実際に行うことによって、適切なデータの収集やクリーニング、加工、分析、結果の解釈、などを行うことができる能力を養うことを目的とする。計量分析のツールは日々進歩しているが、それを利用したり結果を解釈したりするためには知っておくべき前提や専門用語、手法の限界、陥りがちな落とし穴などが随所に存在する。本講義では統計学の理論や数学的説明を極力避け、実務的な応用と解説を重視するため、統計分析の初心者であっても受講可能である。本演習によって基本的な分析手法と結果を解釈する能力を身に着ければ、様々なレポートや論文で示されるデータ分析結果を自ら主体的に解釈し、他者による解釈の限界などを理解することも可能になるものと期待される。

【関連するディプロマポリシー(DP)】

(科学技術イノベーション政策プログラム)

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築し、定量的・定性的データ等を活用して分析を行い、それらを政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

【到達目標】

学生が到達すべき目標は以下の通り。

(1)定量的データの種類や特性を理解し、目的とする分析の手法やモデルに対してどのようなデータ型が適切なのかを理解することができるようになる。

(2)定量的データのクリーニングや記述統計、分布の確認などができるようになる。

(3)統計分析ツール（ソフトウェア）の基本的操作方法を身に着ける。

(4)出力された分析結果の意味とその限界を理解し、適切に解釈することが可能になる。

2. 各授業のテーマ：

1/2 データ分析の基礎と分析ソフト・データの準備

R、R コマンダー、EZR、データの観察と記述統計

3/4 グループ間の比較と検定

変数の種類、平均値の比較、中央値の比較、相関、直交表

5/6 多変量解析の基礎

因子分析・主成分分析、クラスター分析

7/8 回帰分析-1

単回帰、OLS 重回帰、残差の診断、変数選択

9/10 回帰分析-2

ダミー変数、カテゴリーデータ：ロジスティック回帰（単項、多項、順序）、一般化線形モデル

11/12 回帰分析-3

時系列データ、パネルデータの重回帰

13/14 因果関係の分析、その他

内生性と操作変数、傾向スコアによる分析、その他

15 ラップアップ

学生による課題解析発表の発表と討論

【授業外学修】

受講者は、毎回授業で配布されるサンプルデータを用いて、自ら分析を再現するとともに、様々な分析のオプションを実施し、どのような結果が得られるのかを確認してみることが望ましい。また、ラップアップに向けて担当するデータセットが決まったら、適切な方法で分析を行い、結果を解釈する。そして効果的なプレゼンテーションを目指してパワーポイント・スライドなどを作成する。

3. 成績の評価方法：

授業におけるデータ分析とディスカッションへの参加・発表：100%

【成績評価基準】

A: 到達目標について高い水準で達成している

B: 到達目標について満足できる水準で達成している

C: 到達目標について概ね達成している

D: 到達目標について最低限の水準は達成している

E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-2 : その他

神田善伸、2020 年、EZR でやさしく学ぶ統計学「改訂 3 版」、中外医学社

逸見功、2018 年、統計ソフト「R」超入門、ブルーバックス、講談社

森田果、2014 年、実証分析入門、日本評論社

R. James et.al., 2013, An Introduction to Statistical Learning: with Applications in R (Springer Texts in Statistics)

John Fox, 2016, Using the R Commander: A Point-and-Click Interface for R (Chapman & Hall/CRC The R Series Book 35)

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

受講者は、事前に下記 HP（自治医大の HP です）から、EZR のインストーラーをダウンロードしておくこと（インストールと初期設定は講義の中で行う）：

<https://www.jichi.ac.jp/saitama-sct/SaitamaHP.files/statmed.html>

6. 聴講の可否

可 Allow

7. 履修上の注意：

2024 年は学年暦の関係上 10 月 12 日スタートでは 15 コマの講義回数を確保できないため、10 月 5 日（土曜）に講義をスタート（1/2 データ分析の基礎と分析ソフト・データの準備）します。

受講者は、統計ソフトのインストールおよびデータを保存するため、自らの PC を持参すること（OS として Windows 10/11 搭載機、また操作性の観点からマウスの利用を推奨する。Mac OS 搭載機については、OS のバージョンにより統計ソフトがインストールできないことがあるので、利用する場合は自己責任で）。

この科目はデータサイエンス関連科目に指定されています。

開講年度 (2024.4月-2025.3月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI2280J

講義名[日本語(英語)] / Class Name : 知的財産マネジメントⅡ

担当者 (フルネーム) / Course instructor (Full Name) : 隅藏 康一/SUMIKURA Koichi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・土 Sat/3 土 Sat/4 土 Sat/5

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

知的財産保護法制、産官学それぞれにおける知的財産戦略、ならびに産学連携施策等を主要なテーマとする、オープンなセミナーに参加し、多様なバックグラウンドの講師や参加者とともに議論し相互に学びあうことで、科学技術イノベーション政策、ならびにナショナル・イノベーション・システムにおける知的財産の役割について理解し、その戦略的活用のための知見を修得する。

【関連するディプロマポリシー(DP)】

特に強く関連する DP :

① 科学技術イノベーションとその政策に関する学術的知識を有し、それらを政策課題に対して応用することができる能力

一部関係する DP:

② 公共政策に係る知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、分析ができる能力

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築し、定量的・定性的データ等を活用して分析を行い、それらを政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

④ 科学技術イノベーション政策の形成や実施の実務に関する理解を有し、理論と実務を架橋した実践的な政策提言ができる能力

⑤ グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーおよびフォロワーとしての役割を自覚して活躍できる能力

2. 各授業のテーマ :

10/19 (土) 13:00-18:30 講義ならびに、知的財産マネジメント研究会への参加

11/16 (土) 13:00-18:30 講義ならびに、知的財産マネジメント研究会への参加

12/14 (土) 13:00-18:30 講義ならびに、知的財産マネジメント研究会への参加

1/18 (土) 13:00-19:00 講義ならびに、知的財産マネジメント研究会への参加

※知的財産マネジメント研究会には、学外の一般参加者の方々とともにご参加いただきます。

詳細な内容については、講義内で連絡いたします。

3. 成績の評価方法：

講義・セミナーへの参加、議論への貢献、レポートの提出あるいはプレゼンテーション、により評価する。

【成績評価基準】 Pass: 到達目標について達成している Fail: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-2 参考資料

Koichi Sumikura (2022) "Mission-oriented Innovation Policies in Japan: focusing on function of intellectual property and technology transfer," Asian Research Policy, Vol.13, December 2022, 84-91.

https://www.kistep.re.kr/arpIssue.es?act=content_view&list_no=215&act=content_view&mid=a20802000000

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

この講義は、科学技術イノベーション政策プログラムの修士課程（2年制）あるいは博士課程の方々については、2年目以降の方々が受講することを想定しています。

科学技術イノベーション政策プログラムの修士課程（2年制）あるいは博士課程の、1年目の方々は、土曜日に開講される他の講義を受講してください。

本学の修士課程を修了後に博士課程に進学した方などで、すでにそれらの科目の単位を取得済みの場合は、その限りではありません。

科学技術イノベーション政策プログラム以外のプログラムの方々は、1年目から受講していただくことが可能です。

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI4000J

講義名[日本語(英語)] / Class Name : 科学技術イノベーション政策論文演習 I

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬・Fall, Winter・

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

※通常は「科学技術イノベーション政策論文演習 I」は修士 2 年次の春・夏学期に履修します。「演習 I」で秋・冬学期開講となっているものは、休学して半期ずれているなどの特殊な場合に履修するものです。

科学技術イノベーション政策論文演習 I および II は、科学技術イノベーション政策プログラム (2 年制) の修士学生を対象として、修士研究を行う研究能力 (研究計画、先行研究の調査、分析等)、ならびに論文執筆やプレゼンテーション能力を身に着けることを目的とする。

科学技術イノベーション政策プログラム (2 年制) に入学した修士課程学生は、通常は、入学後 1 年を経過した 2 年次春学期に科学技術イノベーション政策論文演習 I を履修し、さらに 6 か月を経過した 2 年次秋学期に科学技術イノベーション政策論文演習 II を履修する。ただし、休学などによって個別学生の履修時期が変わることはありうる。

【関連するディプロマポリシー(DP)】

特に強く関連する DP :

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築し、定量的・定性的データ等を活用して分析を行い、それらを政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

関係する DP:

① 科学技術イノベーションとその政策に関する学術的知識を有し、それらを政策課題に対して応用することができる能力

一部関係する DP:

④ 科学技術イノベーション政策の形成や実施の実務に関する理解を有し、理論と実務を架橋した実践的な政策提言ができる能力

⑤ グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーおよびフォロワーとしての役割を自覚して活躍できる能力

【到達目標】

(1) 修士論文の執筆を目指して、科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築することができる。

- (2) 量的・定性的データ等を用いた研究計画をたてて、実際に分析を実施することができる。
- (3) 自身の分析結果をまとめ、学術的ならびに政策的な含意を検討するとともに、その結果を他者に示してコミュニケーションできる。

2. 各授業のテーマ：

本授業（ⅠとⅡ）は、学期中の土曜日に複数回の集中講義として実施し、研究方法に関する講義と、学生によるプレゼンテーションとディスカッションを行う。実施日についてはプログラムからの案内を確認すること。

※本授業は、学生の修士研究への準備状況を踏まえ、2年次に先立って授業内容の一部を1年次にプログラムの特別講義として先取り実施する場合がある。プログラムからの案内を確認すること。

科学技術イノベーション政策論文演習ⅠならびにⅡにより以下の内容を教授する。以下の前半1～3を演習Ⅰ、4～6を演習Ⅱで行う予定である。

1) 集中講義第1回

- ・研究テーマの設定
- ・研究の問い（リサーチクエスション）の設定
- ・各学生の研究関心について、発表とディスカッション

2) 集中講義第2回

- ・仮説の検討
- ・先行研究の調査
- ・各学生の研究計画案とリサーチクエスションについて、発表とディスカッション

3) 集中講義第3回

- ・研究方法の検討1（定量的研究手法、定性的研究手法、混合手法）
- ・研究計画の発表とディスカッション

4) 集中講義第4回

- ・研究方法の検討2
- ・研究進捗状況の報告とディスカッション

5) 集中講義第5回

- ・プレゼンテーションの方法
- ・研究進捗状況の報告とディスカッション

他)

上記に加えて大学全体が提供する「論文の書き方講座」（全4回）およびデータサイエンスセンター

が行うデータサイエンスの研究方法のワークショップ（5 テーマ）について、各人の修士論文テーマ等に応じて本授業の一環としての受講を強く推奨する。主指導教員と相談すること。

なお、指導教官による個別の研究指導は「履修・研究指導計画書」に基づき本授業とは別に実施するため、指導教官と相談すること。

また、本授業とは別に修士論文の最終発表会は2年次の2月に実施する。

【事前・事後学修】

各回の事前学修として、発表内容を準備すること。

各回の事後学修として、講義内容に関する参考文献の箇所を読んで復習すること。

3. 成績の評価方法：

授業への貢献とプレゼンテーション（pass/fail）

【成績評価基準】

pass: 到達目標について概ね達成している

fail: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1

なし

4-2

- ・伊藤修一郎「政策リサーチ入門：仮説検証による問題解決の技法」東京大学出版会，2011年。
- ・Creswell, J. W. 2003. Research Design: Qualitative, Quantitative and Mixed Methods Approaches. Thousand Oaks: Sage.
- ・J.W.クレスウェル、V.L.プラノクラーク著、大谷順子訳「人間科学のための混合研究法：質的・量的アプローチをつなぐ研究デザイン」北大路書房, 2010
- ・J.W.クレスウェル著、操華子、森岡崇 訳「研究デザイン—質的・量的・そしてミックス法」2007
- ・Yin, Robert 2012. Applications of Case Study Research, Thousand Oaks: Sage.

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

否 Not Allow

7. 履修上の注意：

なし

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI4010J

講義名[日本語(英語)] / Class Name : 科学技術イノベーション政策論文演習Ⅱ

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬・Fall, Winter・

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

※通常は「科学技術イノベーション政策論文演習Ⅱ」は修士 2 年次の秋・冬学期に履修します。「演習Ⅱ」で春・夏学期開講となっているものは、休学して半期ずれているなどの特殊な場合に履修するものです。

科学技術イノベーション政策論文演習ⅠおよびⅡは、科学技術イノベーション政策プログラム(2 年制)の修士学生を対象として、修士研究を行う研究能力(研究計画、先行研究の調査、分析等)、ならびに論文執筆やプレゼンテーション能力を身に着けることを目的とする。

科学技術イノベーション政策プログラム(2 年制)に入学した修士課程学生は、通常は、入学後 1 年を経過した 2 年次春学期に科学技術イノベーション政策論文演習Ⅰを履修し、さらに 6 か月を経過した 2 年次秋学期に科学技術イノベーション政策論文演習Ⅱを履修する。ただし、休学などによって個別学生の履修時期が変わることはありうる。

【関連するディプロマポリシー(DP)】

特に強く関連する DP :

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築し、定量的・定性的データ等を活用して分析を行い、それらを政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

関係する DP:

① 科学技術イノベーションとその政策に関する学術的知識を有し、それらを政策課題に対して応用することができる能力

一部関係する DP:

④ 科学技術イノベーション政策の形成や実施の実務に関する理解を有し、理論と実務を架橋した実践的な政策提言ができる能力

⑤ グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーおよびフォロワーとしての役割を自覚して活躍できる能力

【到達目標】

(1) 修士論文の執筆を目指して、科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、問題を設定し、仮説を構築することができる。

- (2) 量的・定性的データ等を用いた研究計画をたてて、実際に分析を実施することができる。
- (3) 自身の分析結果をまとめ、学術的ならびに政策的な含意を検討するとともに、その結果を他者に示してコミュニケーションできる。

2. 各授業のテーマ：

本授業（ⅠとⅡ）は、学期中の土曜日に複数回の集中講義として実施し、研究方法に関する講義と、学生によるプレゼンテーションとディスカッションを行う。実施日についてはプログラムからの案内を確認すること。

※本授業は、学生の修士研究への準備状況を踏まえ、2年次に先立って授業内容の一部を1年次にプログラムの特別講義として先取り実施する場合がある。プログラムからの案内を確認すること。

科学技術イノベーション政策論文演習ⅠならびにⅡにより以下の内容を教授する。以下の前半1～3を演習Ⅰ、4～6を演習Ⅱで行う予定である。

1) 集中講義第1回

- ・研究テーマの設定
- ・研究の問い（リサーチクエスション）の設定
- ・各学生の研究関心について、発表とディスカッション

2) 集中講義第2回

- ・仮説の検討
- ・先行研究の調査
- ・各学生の研究計画案とリサーチクエスションについて、発表とディスカッション

3) 集中講義第3回

- ・研究方法の検討1（定量的研究手法、定性的研究手法、混合手法）
- ・研究計画の発表とディスカッション

4) 集中講義第4回

- ・研究方法の検討2
- ・研究進捗状況の報告とディスカッション

5) 集中講義第5回

- ・プレゼンテーションの方法
- ・研究進捗状況の報告とディスカッション

他)

上記に加えて大学全体が提供する「論文の書き方講座」（全4回）およびデータサイエンスセンター

が行うデータサイエンスの研究方法のワークショップ（5 テーマ）について、各人の修士論文テーマ等に応じて本授業の一環としての受講を強く推奨する。主指導教員と相談すること。

なお、指導教官による個別の研究指導は「履修・研究指導計画書」に基づき本授業とは別に実施するため、指導教官と相談すること。

また、本授業とは別に修士論文の最終発表会は2年次の2月に実施する。

【事前・事後学修】

各回の事前学修として、発表内容を準備すること。

各回の事後学修として、講義内容に関する参考文献の箇所を読んで復習すること。

3. 成績の評価方法：

授業への貢献とプレゼンテーション（pass/fail）

【成績評価基準】

pass: 到達目標について概ね達成している

fail: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1

なし

4-2

- ・伊藤修一郎「政策リサーチ入門：仮説検証による問題解決の技法」東京大学出版会，2011年。
- ・Creswell, J. W. 2003. Research Design: Qualitative, Quantitative and Mixed Methods Approaches. Thousand Oaks: Sage.
- ・J.W.クレスウェル、V.L.プラノクラーク著、大谷順子訳「人間科学のための混合研究法：質的・量的アプローチをつなぐ研究デザイン」北大路書房, 2010
- ・J.W.クレスウェル著、操華子、森岡崇 訳「研究デザイン—質的・量的・そしてミックス法」2007
- ・Yin, Robert 2012. Applications of Case Study Research, Thousand Oaks: Sage.

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

否 Not Allow

7. 履修上の注意：

なし

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI6001E

講義名[日本語(英語)] / Class Name : Economics of Innovation

担当者 (フルネーム) / Course instructor (Full Name) : INTARAKUMNERD Patarapong/INTARAKUMNERD Patarapong

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/2

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

Students should have basic knowledge on microeconomics and macroeconomics before taking this course. This course will be a foundation for further studies in other subjects of science, technology and innovation policies. It focuses on economic explanation of technical change and innovation at four levels: micro (firm), meso (industrial sector, regional, and geographical cluster), national, and global.

Students will learn four modules:

- A.) Micro level: understanding knowledge, science, technology and innovation
- B.) Meso level: industrial dynamics, regional and sectoral innovation systems, and clusters
- C.) Macro level: the roles of national innovation systems and globalization
- D.) Important issues: roles of finance, universities and intellectual property right

By studying these four modules, the learning goal for the student is to be able to explain how innovation happened, diffuse and use.

[Related Diploma Policy (DP)]

Science, Technology and Innovation Policy Program (STI) (Doctoral)

Highly relevant: 2

Partially relevant: 1 and 3

2. Course Outline :

Class	Topic	Textbook: Chapter
1	Module A:	1/13 (Ox)
2	Introduction: what is innovation and why does it matter?	2 (Ox)/5 (HR)
3	Basic concepts on economics of knowledge, S&T, and	16 (HR)

	innovation Technological change and innovation in theories of firms	
4	Module B:	3 (HR)
5	Economics of industrial evolution	7 (Ox)/27 (HR)
6	Systems of innovation concept	14 (Ox)
7	Sectoral innovation system	
	Regional innovation system and industrial cluster	11 (Ox)/8 (HR)
8	Module C:	19 (Ox)/20 (HR)
9	National innovation system and technological catching up	12 (Ox)
10	Globalization and the roles of transnational corporations	20 (Ox)
11	Global value chain and production network	
	Diffusion and impacts of General Purpose Technologies	17/18 (HR)
12	Module D:	9 (Ox)/14 (HR)
13	Innovation Financing	8 (Ox)/6 (HR)
	universities/public research institutes and industry	
14	interaction	10 (Ox)/7 (HR)
	Intellectual property rights and innovation	
15	General discussion and conclusion	

3. Grading :

Students are expected to be able to explain how innovation happened, diffuse and use.

Evaluation for the course will be based upon the following:

contribution to the lecture through remarks and questions in class (20%), final examination (60%), and academic report (20%)

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

Fargerberg, J., Mowery, D. and Nelson, R. (eds.) (2005), Oxford Handbook of Innovation, Oxford University Press: New York, USA (Ox)

(downloadable from

https://www.academia.edu/38930379/THE_OXFORD_HANDBOOK_OF_INNOVATION_Edited_by)

Hall, B. and Rosenberg, N. (eds.) (2010), Handbook of the Economics of Innovation, Elsevier, Amsterdam (HR)

(downloadable at GRIPS through GRIPS's institutional paid account from

<https://www.sciencedirect.com/handbook/handbook-of-the-economics-of-innovation>)

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Allow

7. Note :

Out of class learning: students are expected to read assigned book chapters before classes. Time required is about 4 hours per week.

Email address: [REDACTED]

開講年度 (2024.4月-2025.3月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7061J

講義名[日本語(英語)] / Class Name : 高等教育・産学連携政策(水、19:30～21:00)

担当者 (フルネーム) / Course instructor (Full Name) : 隅藏 康一/SUMIKURA Koichi

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

産学連携の活性化は、知的財産政策ならびにイノベーション政策のいずれの観点からも、最重要課題の一つとして位置づけられる。大学側の組織である大学知的財産本部や技術移転機関 (TLO) において、また企業側の産学連携担当部署において、基礎的な技術シーズの「目利き」の能力を持ち、そのシーズをさらに発展させるべくマネジメントを行うことが求められている。本講義では、産学連携に関する政策が日本や米国においてどのようにデザインされてきたかをたどり、具体的な成功例・失敗例を踏まえながら今後の課題と解決策を議論する。

【関連するディプロマポリシー(DP)】

科学技術イノベーション政策プログラム (博士課程)

特に強く関連する DP :

① 科学技術イノベーションとその政策に関する高度な学術的かつ学際的な専門知識を有し、それらを政策課題に対して複合的に応用することができる能力

一部関係する DP:

② 公共政策に係る幅広い知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、多角的な視野から分析ができる能力

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、過去の学術的知見を踏まえて問題を設定し、仮説を構築し、科学技術イノベーションに特有なデータを含めて多様な定量的・定性的データ等を活用して独自の分析を行い、それらを研究論文や政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

④ 科学技術イノベーション政策の形成や実施の実務に関する高度な理解を有し、理論と実務を架橋した実践的な政策提言ができる能力

⑤ グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーとして活躍できる能力

【到達目標】

産学連携に関する政策が日本や米国においてどのようにデザインされてきたかを理解し、具体的な成功例・失敗例を踏まえながら今後の課題と解決策を考えることができる。

2. 各授業のテーマ :

1. イントロダクション：大学の役割、産学連携の類型化
2. 科学技術イノベーション基本法・基本計画、知的財産推進計画
3. 大学発スタートアップ、スタートアップ・エコシステム
4. 産学連携人材の育成
5. 米国の政策：バイ・ドール法
6. 米国の事例：コーエン・ボイヤーの遺伝子組み換え技術
7. 米国の事例：AUTM の統計資料より
8. リサーチ・アドミニストレーター の役割
9. 大学知財ガバナンス・ガイドライン
10. 研究インテグリティと秘密保持、利益相反
11. 各種データに見る、日本における課題（科学技術指標）
12. スター・サイエンティストの育成
13. プレゼンテーション (1)
14. プレゼンテーション (2)
15. まとめ

【授業外学修】

講義内で示された資料を読んで内容を把握する。講義内で行うプレゼンテーションの準備をする。

3. 成績の評価方法：

講義における討論への参加と貢献度 50%

プレゼンテーションとその資料の提出（論理性、独創性、資料の完成度、引用の適切性、質疑応答への対応、他の学生のプレゼンテーションに対する質問など） 50%

【成績評価基準】

- A: 到達目標について高い水準で達成している
- B: 到達目標について満足できる水準で達成している
- C: 到達目標について概ね達成している
- D: 到達目標について最低限の水準は達成している
- E: 到達目標について達成できていない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1.

Martin Kenney and David Mowery (2014) "Public universities and regional growth: insights from the University of California"

<http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&lang=ja&AN=77890>

6

（GRIPS 図書館に電子書籍があります）

隅藏康一（2021） 「大学を源泉とする知の移転」，研究技術計画, Vol.36, No.3, p.271-289.

https://www.jstage.jst.go.jp/article/jsrpim/36/3/36_271/_article/-char/ja/

4-2.

「科学技術イノベーション政策の科学 コアコンテンツ」 <https://scirex-core.grips.ac.jp/>

高橋真木子・古澤陽子・枝村一磨・隅藏康一『日本のアカデミアにおける研究推進・活用人材・競合から協働へと向かう産学官連携コーディネーターと URA-』GRIPS DISCUSSION PAPER 18-11
(2018) <http://doi.org/10.24545/00001639>

講義資料は各講義で配布します。

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

受講者は、講義内で定められた課題について、少なくとも2回のプレゼンテーションを、講義内で行っていただきます。そのための準備も必要となります。

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7081E

講義名[日本語(英語)] / Class Name : Comparative Analysis of Science, Technology and Innovation Policy: Asian Experiences

担当者 (フルネーム) / Course instructor (Full Name) : INTARAKUMNERD Patarapong/INTARAKUMNERD Patarapong

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/火 Tue/1

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

This course is a combination of lectures and seminars. Students will learn theoretical and fundamental knowledge of science, technology and innovation (STI) policies. Based on such knowledge, seminars will be held to discuss STI policy experiences of several groups of countries classified by level of economic development and technological catching up. The learning goal of students is to be able to understand similarities and differences of STI policy across countries and underlying rationales.

Related Diploma Policy (DP)]

Science, Technology and Innovation Policy Program (STI) (Doctoral)

Relevant: 1 and 4

Partially relevant: 2 and 5

2. Course Outline :

Week

- 1: Introduction: From S&T Policy to STI Policy (Lecture)
- 2: STI policy: Framework and Policy Instruments (Lecture)
- 3: Experiences of Large Developed country: USA (Seminar)
- 4: Experiences of Large Developed Country: Germany (Seminar)
- 5: Experiences of Small Developed Countries: Scandinavian Countries (Seminar)
- 6: Experiences of the First Industrialized Country in Asia: Japan (Seminar)
- 7: Experiences of Small Industrialized Country: Israel (Seminar)
- 8: Experiences of Newly Industrialized Country: Korea (Seminar)
- 9: Experiences of Newly Industrialized Country: Taiwan (Seminar)
- 10: Experiences of Newly Industrialized Country: Singapore (Seminar)
- 11: Experiences of Emerging Asian Super Power: China (Seminar)
- 12: Experiences of Emerging Asian Super Power: India (Seminar)
- 13: Experiences of Second-tier Newly Industrializing Economies: Malaysia and Thailand (Seminar)
- 14: Comparing innovation policies across countries: what have we learnt so far (Seminar)
- 15: STI Policies in the 21st century (Lecture)

3. Grading :

Evaluation for the course will be based upon two term papers (60%), presentations (30%) and contribution to the lecture through remarks and questions in classes (10%).

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

(electronics files will be given to students on the first week of the class)

Week

1: Introduction: From S&T Policy to STI Policy

Lundvall. B. and Borrás. S. (2005). 'Chapter 22: Science, Technology and Innovation Policy', in Fagerberg, J., Mowery, D. and Nelson, R. (eds.), Oxford Handbook of Innovation, Oxford University Press: New York, USA, 599-631.

Woolthuis, R. K. et al., 2005. 'A system failure framework for innovation policy design', Technovation, 25 (5): 609-619.

2: STI policy: framework and policy instruments

Lall, S. and Morris, T. (1998). "Market-stimulating" technology policies in developing countries: A framework with examples from East Asia,' World Development 26 (8), 1369-1385

Edquist, C. and Chaminade, C. (2006). Industrial Policy from a systems-of-innovation perspective, No. 5/2006, EIB series papers, Economics Department, European Investment Bank.

3: Experiences of Large Developed country: USA

Mowery, D. and Rosenberg (1993), 'the US Innovation System', in Nelson, R. (ed.), National Systems of Innovation: A Comparative Study, Oxford: Oxford University Press 29-75.

Mazzucato, M. (2013). The Entrepreneurial State: Debunking Public vs. Private Sector Myths, Chapter 4-5,

London and New York: Anthem Press

4: Experiences of Large Developed Country: Germany

Meyer-Krahmer, F.. (2001), 'The German Innovation System,' in Laredo, P. and Mustar, P., *Research and Innovation Policies in the New Global Economy*, Edward Elgar: Cheltenham, UK, 15-46

Eickelpasch, A. and Fritsch, M. (2005) *Contests for cooperation--A new approach in German innovation policy*, *Research Policy*, Elsevier, vol. 34(8), pages 1269-1282, October

.

5: Experiences of Small Developed Countries: Scandinavian Countries

Ormal, E/ (2001), 'Science, Technology and Innovation Policy in Finland' in Laredo, P. and Mustar, P., *Research and Innovation Policies in the New Global Economy*, Edward Elgar: Cheltenham, UK, 325-358

Edquist, C. and Lundvall, B.A. (1993), 'Comparing Swedish and Danish Systems of Innovation, in Nelson, R. (ed.), *National Systems of Innovation: A Comparative Study*, Oxford: Oxford University Press 265-298.

6: Experiences of the First Industrialized Country in Asia: Japan

Goto, A. and Odagiri, H. (1996), *Technology and Industrial Development in Japan: Building Capabilities by Learning, Innovation and Public Policy*, chapter 2-3, Oxford University Press: Oxford, 17-63.

Odagiri, H. (2006), 'Advance of Science-based industries and the changing innovation system in Japan, 'in Lundvall, B., Intarakumnerd, P., Vang, J. (eds) (2006), *Asian Innovation Systems in Transition*, Cheltenham, UK and Northampton, USA: Edward Elgar, 200-226.

7: Experiences of Small Industrialized Country: Israel

Getz, D. and Segal, V. (2008), 'The Israeli innovation system: An overview of national policy and cultural aspects', A Report prepared by Samuel Neman Institute for Public Policy Research.

Avnimelech, G. and Teubal, M. (2006) *Creating venture capital industries that co-evolve with high tech: Insights from an extended industry life cycle perspective of the Israeli experience*, *Research Policy* 35 (2006) 1477-1498

8: Experiences of Newly Industrialized Country: Korea

Kim L., (1999), 'Building Technological Capability for Industrialization: Analytical Frameworks and Korea's Experience,' *Industrial and Corporate Change*, 8(1):111-136.

Hwang, H-R., and Choung J-Y. (2013), 'Towards and Innovation Policy in the Post Catch-up Era,' *Asian Journal of Innovation and Policy*, 2(1): 1-19.

9: Experiences of Newly Industrialized Country: Taiwan

Lauridsen, L. (2008), 'Industrial Upgrading: Industrial Technology Policy in Taiwan', in Lauridsen, L. (2008), *State, Institutions and Industrial Development: Industrial Deepening and Upgrading Policies in Taiwan and Thailand Compared*, Shaker Verlag: Aachen, 442-513.

Mathews, J. (2002), 'The origins and dynamics of Taiwan's R&D consortia' *Research Policy*, 31(4), 633-651

10: Experiences of Newly Industrialized Countries: Singapore

Wong, P. and Annet, S. (2011) 'OECD Review of Innovation in South-East Asia: Country Profile: Singapore'. Paris: OECD

Yeung, H. (2006), 'Innovating for Global Competition: Singapore's Pathway to High-tech Development', in Lundvall, B., Intarakumnerd, P., Vang, J. (eds) (2006), *Asian Innovation Systems in Transition*, Cheltenham, UK and Northampton, USA: Edward Elgar, 178-199

11: Experiences of Emerging Asian Super Power: China

Feng-chao Liu, Denis Fred Simon, Yu-tao Sun, Cong Cao, (2011), 'Chinas innovation policies: Evolution, institutional structure, and trajectory' *Research Policy*, 40 (7): 917-931

Chu, W. (2011), 'How the Chinese Government Promoted Global Automobile Industry,' *Industrial and Corporate Change*, 20 (5), 1-42

12: Experiences of Emerging Asian Super Power: India

Athreye S. (2005), 'The Indian software industry and its evolving service capability' *Industrial and Corporate Change*, 14(3): 393-418

Athreye, S., Kale, D., Ramani, S. (2009), 'Experimentation with strategy and the evolution of dynamic capability in the Indian pharmaceutical sector,' *Industrial and Corporate Change*, 18(4): 729-759

13: Experiences of Second-tier Newly Industrializing Economies: Malaysia and Thailand

Rasiah, Rajah (2006), 'Explaining Malaysia's Export Expansion in Palm Oil and Related Products,' in V. Chandra (ed.) *Technology, Adaptation, and Exports — How Some Developing Countries Got It Right*, World Bank, Washington DC.

Intarakumnerd, P. (2015). 'Seven Unproductive Habits of Thailand's Ineffective Technology and Innovation Policies: Lessons for other Developing Countries,'
Institutions and Economies, 7 (1), April 2015, pp. 80-95.

14: No reading materials

15: STI Policies in the 21st century

Maria Abreu, Vadim Grinevich, Michael Kitson & Maria Savona (2010), 'Policies to enhance the 'hidden innovation' in services: evidence and lessons from the UK', The Service Industries Journal, 30:1, 99-118

Todtling, F. and Trippel, M (2005), 'One size fits all?: Towards a differentiated regional innovation policy approach', Research Policy, 34(8), 1203-1219

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow
否 Not Allow

7. Note :

Out of class learning: students are expected to read assigned articles before classes. Time required is about 4 hours per week

Email address: [REDACTED]

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7161E

講義名[日本語(英語)] / Class Name : Outline of Energy Policy

担当者 (フルネーム) / Course instructor (Full Name) : 高橋 一彰/TAKAHASHI Kazuaki

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/金 Fri/3 金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

Energy is essential for living standard in the modern economy. Each country conducts its own energy policy for securing energy supply sufficient to increasing demand by the economic growth, maintaining the cost within affordable levels and considering environmental concern simultaneously.

This class explores the energy situation, energy policy challenges and possibilities from various perspectives, including the basic principle 3E+S (Safety, Energy Security, Economic Efficiency and Environment). Students will identify and compare the characteristics of the energy situation and energy policy and potential solutions for sustainable energy policy in each country for effective understanding.

This course is related to the following SDGs:

7 (Energy), 8 (Economic Growth),13(Climate Action)

[Related Diploma Policy (DP)]

Science, Technology and Innovation Policy Program (STI)(Doctoral): ①②③④⑤

[Course Goals]

Students can:

- (1) identify the challenges to be solved for developing sustainable energy policy
- (2) discuss the challenges and potential solutions
- (3) raise the issues need to be studied in more detail to get meaningful policy framework

2. Course Outline :

Week1-1 Introduction

Main Objectives of Energy Policy, Global Supply and Demand Figure, Historical View of Energy Policy etc.

Week1-2 Policy Framework

Safety, Energy Security, Economic Efficiency and Environment as the principle of energy policy

Week2-1 Oil and Gas Security Policy

Oil and natural gas policy for the security of energy supply (Prof. Nei)

Week2-2 Clean Energy System

Technologies for a sustainable energy system, such as energy saving, renewables, hydrogen and CCUS, and framework of Japanese Energy Policy (Prof. Nei)

Week3-1 Energy Measures that Provide Co-benefits

Energy measures with co-benefits for health, pollution reduction, resilience etc. (an expert will be invited as a speaker)

Week3-2 Energy Situations (group discussion)

Comparison of energy supply and demand and other energy situations in each country

Week 4 Electricity and Nuclear Energy Policy

Measures for resilient electricity infrastructure, including nuclear energy's role in energy policy (Prof. Nei)

Week5-1 Nuclear Safety after Fukushima Accident

An overview of the nuclear accident at Fukushima Daiichi NPS and the response to it (an expert will be invited as a speaker)

Week5-2 Measures to Implement Energy Policy Energy Policies (group discussion)

Trends and challenges in energy conservation and renewable energy deployment

Comparison of energy policies in each country

Week6-1 Latest Energy Policy in Japan

The direction of Japan's energy policy and the promotion of decarbonization in Asia under AZEC (an expert will be invited as a speaker)

Week6-2 Energy and Environment

Policy on environmental pollution and climate change caused by energy use

Week7-1 Environment Impact Assessment

Environmental impact assessment as a means of promoting harmonious energy policies (an expert will be invited as a speaker)

Week7-2 Energy Policy Challenges (group presentation)

Energy policy characteristics and challenges in each country

Week8-1 Recent Trends in Measures to Combat Climate Change

The latest discussions and developments on climate change at national and international level (an expert will be invited as a speaker)

Week8-2 Discussion of Energy Policy for the Future

Comprehensive discussion of energy policy based on what has been learnt in this course

※Term Paper should be submitted by Tuesday of the next week of Week 8.

※Contents of the Course might be changed due to inquiries or expectations of students.

[Out-of-class Learning]

Students are expected to be active participants in class and to develop a mutual understanding of each country's situation through discussion.

After class, students should review the contents of the lecture, make comment for each day and prepare for group discussion/presentation and term paper.

3. Grading :

Term paper 40%, Group discussion/presentation 30%, Comment sheet for each day 30%.

Term paper is composed of about 1000 words.

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

① World Energy Outlook 2023, International Energy Agency(IEA)

<https://origin.iea.org/reports/world-energy-outlook-2023>

② White Paper of Energy in Japan 2024 (Japanese)

<https://www.enecho.meti.go.jp/about/whitepaper/2024/pdf/>

③ Energy Policies of IEA Countries; Japan 2021 Review

<https://www.iea.org/reports/energy-policies-of-iea-countries-japan-2020-review>

④ 6th Strategic Energy Plan, Government of Japan, 2021

https://www.enecho.meti.go.jp/en/category/others/basic_plan/pdf/6th_outline.pdf

⑤ Countries and regions, International Energy Agency(IEA) website

<https://www.iea.org/countries>

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☒ Allow

7. Note :

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7221J

講義名[日本語(英語)] / Class Name : 科学技術イノベーション政策と評価 (Evaluation of Science, Technology and Innovation Policy)

担当者 (フルネーム) / Course instructor (Full Name) : 林 隆之/HAYASHI Takayuki

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

科学技術イノベーション政策において「評価」の重要性は増している。研究の現場では、研究の質の評価は昔から頻繁に行われてきた。しかし、1970 年代以降、研究開発から生み出される経済・社会的効果が強く期待されるようになり、学術的な質だけではなく、より広い社会的な視点から研究開発活動の評価しマネジメントすることが求められるようになってきた。さらに 1990 年代以降に政策評価制度が導入されることにより、科学技術イノベーション政策やプログラムを対象とした評価が専門的な手法や概念を用いて行われるようになってきている。本講義では、科学技術イノベーションおよびその政策に対する評価について、歴史的背景と現在の制度を確認したうえで、評価の基礎理論を学習する。また、研究開発を対象とした評価においてどのような難しさが原理的に生じるかを学び、ピアレビュー、ビブリオメトリクス、科学技術の経済効果、社会効果の評価について取り上げる。さらに、プログラム評価、大学や研究機関の評価、イノベーション政策における各種政策手段の評価など、学生の関心も踏まえつつ扱う予定である。

また、授業は講義を中心にしつつ(60 分)、最新の科学技術イノベーション政策の評価に関する論文等の輪読も行う (おもにジャーナル Research Evaluation、Research Policy、Science and Public Policy などを用いる。30 分)。履修者は輪読担当論文の発表が求められる。

授業を履修することにより、学生は研究開発を対象とする評価、ならびに、科学技術・イノベーション政策を対象とする評価についての多面的な知識を得て、それをもとに評価設計と実施が検討できるようになっていることが期待される。

【関連するディプロマポリシー(DP)】

特に強く関連する DP :

① 科学技術イノベーションとその政策に関する高度な学術的かつ学際的な専門知識を有し、それらを政策課題に対して複合的に応用することができる能力

一部関係する DP:

② 公共政策に係る幅広い知識を持ち、それらの文脈の中で科学技術イノベーション政策をとらえ、多角的な視野から分析ができる能力

③ 科学技術イノベーション政策の課題を対象に、科学的アプローチに基づき、過去の学術的知見を踏まえて問題を設定し、仮説を構築し、科学技術イノベーションに特有なデータを含めて多様な定量的・定性的データ等を活用して独自の分析を行い、それらを研究論文や政策提言としてまとめ、政策形成者に対して示しコミュニケーションできる能力

- ④ 科学技術イノベーション政策の形成や実施の実務に関する高度な理解を有し、理論と実務を架橋した実践的な政策提言ができる能力
- ⑤ グローバル社会において異なる価値観や制度を尊重し、その中で科学技術イノベーション政策を理解してコミュニケーションする姿勢を持ち、リーダーとして活躍できる能力

【到達目標】

- (1) 評価についての理論を理解し、自ら説明ができるようになっている
- (2) 研究開発評価と科学技術イノベーション政策の評価についての理論や現状についての深い知識を得て、自ら説明ができるようになっている。
- (3) 上記の知識を、自らの関心ある対象に応用して、評価設計や実施ができるようになっている。

2. 各授業のテーマ：

- 1. イントロダクション：歴史的経緯と研究評価制度
- 2. 評価の設計（1）：評価理論の基礎
- 3. 評価の設計（2）：評価理論の基礎
- 4. 科学技術イノベーション政策評価に特有の概念
- 5. プログラム評価とロジックモデル演習
- 6. ピアレビューと学際研究・革新的研究の評価
- 7. ビブリオメトリクスの活用
- 8. 研究の経済効果の評価(1)
- 9. 研究の経済効果の評価(2)
- 10. 研究の社会効果の評価(1)
- 11. 研究の社会効果の評価(2)
- 12. イノベーション政策の評価(1)
- 13. イノベーション政策の評価(2)
- 14. EBPM 手法の適応
- 15. 学生発表

※受講者の関心にあわせて変更することもあり得る

【授業外学修】

講義の各回について、関係する参考文献を確認しておくこと。事後学修として、講義内容を復習するとともに、講義で用いられた資料・参考文献を確認しておくこと。
また、本授業は輪読も行うため、担当部分について事前にプレゼンテーション資料を準備すること。

3. 成績の評価方法：

議論のディスカッションへの貢献（20%）、授業における割当の報告（30%）、発表・レポート（50%）

【成績評価基準】

A: 到達目標について高い水準で達成している

B: 到達目標について満足できる水準で達成している

C: 到達目標について概ね達成している

D: 到達目標について最低限の水準は達成している

E: 到達目標について達成できていない

4. テキスト、参考文献等 : (4-1:必携のテキスト 4-2:その他)

4-1 教科書

なし (資料を配付)

4-2 参考文献

- Shapira, P. and S. Kuhlmann eds. (2003), Learning From Science And Technology Policy Evaluation: Experiences from the United States and Europe, Edward Elgar.
- Callon, M., P. Laredo and P. Mustar eds. (1997). The Strategic Management of Research and Technology, The evaluation of Programs, Economica International.
- Link, N. and N.S. Vonortas eds.(2013), Handbook On The Theory And Practice Of Program Evaluation, Edward Elgar.
- Jakob Edler, Paul Cunningham, Abdullah Gok, Philip Shapira(2016), Handbook of Innovation Policy Impact, Edward Elgar publishing.
- 藤垣裕子ほか(2003)『研究評価・科学論のための科学計量学入門』丸善株式会社.
- 龍慶昭・佐々木亮(2004)『「政策評価」の理論と技法』多賀出版
- ロッシ、リプセイ、フリーマン(2004:大島他訳(2005))『プログラム評価の理論と方法』日本評論社
- ハトリー(1999:上野他訳(2004)『政策評価入門』東洋経済新報社

5. 講義で使用するソフトウェア (特にない場合は空欄でも可) :

6. 聴講の可否

可 Allow

7. 履修上の注意 :

なし

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7231E

講義名[日本語(英語)] / Class Name : Energy Data Analysis

担当者 (フルネーム) / Course instructor (Full Name): 高橋 一彰, 根井 寿規/TAKAHASHI Kazuaki and NEI Hisanori

学期・曜日・時限 / Term・Day・Period : 秋後期 Fall (Session II)/金 Fri/3 金 Fri/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

Energy data analysis is the foundation for developing sound national energy policies as it shows where interventions are required and what opportunities are available. Many countries struggle to make informed policy decisions at the national level because of lacking qualified energy data analysis. The pressures and complexities of international energy markets and the imperatives of global issues such as climate change mean that countries need to understand and comply with international conventions on monitoring and reporting. The job of an energy data analysis is more complex than ever before and requires the ability to ensure the quality, consistency and compatibility of energy data.

You will gain a broad understanding of energy systems as a whole, covering supply and demand, the interrelationships and dependencies between different sectors and a multi-vector multi-sector approach to analysis. You will learn about the theory and practice of data analysis and will gain practical experience of the challenges of working with different data sets relating to energy throughout the program and modules.

We will provide a software to develop an economic outlook model and energy data base by free of charge.

Especially Master Course students could use the outcome of this course for writing their policy papers or independent studies with energy and economic outlook.

This course is jointly conducted with the Institute of Energy Economics, Japan.

This course is related to the following SDGs:

7 (Energy), 8 (Economic Growth), 13 (Climate Action)

[Related Diploma Policy (DP)]

Science, Technology and Innovation Policy Program (STI)(Doctoral) ①②③④⑤

[Course Goals]

Students can:

- (1) identify the challenges to be solved for developing sustainable energy policy
- (2) discuss the challenges and potential solutions
- (3) raise the issues need to be studied in more detail to get meaningful policy framework

2. Course Outline :

Week1-1 Introduction

Structure and schedule of the class

Week1-2 Introduction (cont.)

Introduction of model analysis

Week2-1 Introduction of Energy Balance Chart

Energy flow, Self-sufficient rate etc.

Week2-2 Analysis of Energy Balance Chart

Explanation and exercise

Week3-1 Statistics of Energy

Examples of major statistics (IEA, BP etc.), Unit conversion

Week3-2 Introduction of Model Analysis

Explanation of useful models such as Optimization model, General equilibrium model etc.

Week4-1 Introduction of Model Development

Economet, Simple Model

Week4-2 Exercise of Model

Exercises based on given tasks

Week5-1 Model Analysis

Make a model based on Energy Balance Chart

Week5-2 Model Analysis

Analysis on each sector such as residential, transportation, industry etc.

Week6-1 Exercise of Model

Exercises based on given tasks

Week6-2 Exercise of Model

(Individual guidance to improve the Model)

Week7 Exercise of Model

(Preparation for the presentation)

Week8-1 Presentation

Presentation

Week8-2 Presentation and Wrap up

Presentation and comprehensive discussion based on what has been learnt in this course

※Contents of the Course might be changed due to inquiries or expectations of students.

[Out-of-class Learning]

Students are expected to be active participants in the class. After class, students should review the contents of the lecture and prepare for presentation.

3. Grading :

Discussion at the class 20%, Homework 20%, Presentation 60%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

Outstanding: A

Superior: B

Satisfactory: C

Minimum acceptable: D

Below the acceptable level: E

4. Textbooks and References (4-1:Required 4-2:Others)

① Statistical Review of World Energy

<https://www.energyinst.org/statistical-review>

② Eurostat Statistic Explained - Energy Balance

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Energy_balance_-_new_methodology

③ World Energy Balances - IEA

④ EDMC Handbook of Japans & World Energy & Economic Statistics - The Energy Data and Modelling Center, The Institute of Energy Economics, Japan

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

可 Allow

7. Note :

Registered students should have their own PC running Microsoft Windows 7,10 or 11, not a Mac in the class. The Economate software will be provided for free of charge, which is a PC-based software package designed to forecast and analyze policy options using the econometric method. We will deliver the Economate at the end of the course on Week 2. If you cannot successfully install it on your PC, it might be difficult to take this course. We will also provide the Access Code and Password to the EDMC data bank, which is an energy data base provided by IEEJ for free.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI7241E

講義名[日本語(英語)] / Class Name : History of Japanese Science, Technology and Innovation Policy

担当者 (フルネーム) / Course instructor (Full Name) : 有本 建男/ARIMOTO Tateo

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/木 Thu/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

(1) Course Description

This course offers an in-depth exploration of the historical evolution and current dynamics of science, technology, and innovation (STI) policies and systems on both domestic and international scales. In recent years, the STI landscape has experienced significant transformation, propelled by emerging technologies such as AI, quantum computing, biotechnology etc. These advancements have not only reshaped the STI systems and industries but also influenced politics, governance, national security, and daily life.

Consequently, the scope of science and technology policy has expanded from the traditional focus on promoting science and technology (policy for science) to addressing broader societal and security challenges, including climate change, health, food security, energy, and urban development (referred to as STI policy; science for policy).

At this pivotal juncture, it is crucial for STI professionals to have a comprehensive understanding of the historical and global perspectives on STI policy and systems. New concepts for STI have been introduced internationally, such as the 4th Industrial Revolution (WEF), Industry 4.0 (Germany), Society 5.0 (Japan), Mission-Oriented Innovation Policy (MOIP) (EU, OECD), "Securitization of STI" (OECD), and STI for SDGs (the United Nations). Strengthening the interface between science, policy, and society, as well as enhancing the capability for science and technology advice and diplomacy, have become key agendas at forums like the G-7, G-20, and among Global South countries. In response to these developments, Japan revised its Basic Law on Science and Technology significantly in 2020, and preparations for the next STI Basic Plan (2026-2030) began earlier this year.

The Sustainable Development Goals (SDGs), unanimously adopted by the United Nations in 2015, serve as a shared vision for humanity and the Earth in the 21st century. Despite some setbacks caused by the COVID-19 pandemic, there are high expectations for STI to contribute to achieving SDGs related to climate change, health, food security, energy, water, urban development, and disaster resilience.

On the other hand, recent geopolitical tensions between the U.S., China, and Russia's invasion of Ukraine have disrupted the conventional global politico-economic system, impacting supply chains and international collaboration in STI. OECD refers to this shift as the Securitization of STI, emphasizing the transformation of the STI system and the growing interplay between STI policy, industrial policy, security policy, and foreign policy. Recognizing this turning point, the OECD convened the STI Ministerial Meeting, including representatives from developing countries, in April 2024 to discuss the future of STI and its policy direction for the next decade.

Initially, this course will review the history and recent trends in domestic and international STI policies and

systems. Subsequently, we will discuss the transformation of STI policies and ecosystems necessary to realize sustainable, resilient, and safe societies at local, national, regional, and global levels. We will also examine governance frameworks for emerging technologies and delve into case studies, such as mobility and smart cities etc. External experts will be invited as needed to enrich our discussions.

(2) Course objective

Students will deepen their understanding of the history and the current trends of STI policies and interactions among multiple stakeholders: citizens, government, industry, academia, and various public policies such as industry, security and foreign policies. They will have the ability to analyze and synthesize the direction of STI policy and systems and to respond to major national and global political, economic and security issues using STI knowledge.

[Related Diploma Policy (DP)]

Science, Technology and Innovation Policy Program (STI) (Doctoral)

Highly relevant:

1. Have advanced academic and interdisciplinary expertise in science, technology, and innovation and policies, and the ability to apply them to policy issues in multiple ways.

Partially relevant:

2. Have a wide range of knowledge on public policies, and the ability to understand science, technology, and innovation policies within this context and analyze them from a multifaceted perspective.
3. The ability using scientific approach, for issues related to science and technology innovation policy, to set up problems based on past scientific knowledge, to construct hypotheses, to conduct independent analysis using various quantitative and qualitative data including data specific to science and technology innovation, to compile research papers and policy proposals, and to present them to policy makers and communicate them.
4. Have a high level of understanding on the formulation and implementation of science and technology innovation policies and the ability to make practical policy recommendations that bridge theory and practice
5. The ability to act as a leader by respecting different values and systems in a global society and understand especially science, technology, and innovation policies and is willing to communicate with others.

2. Course Outline :

*The points and order of lectures will be decided in consultation with students.

2-1. Outlines

- (No.1) Discussions on contemporary Society and STI Policies
- (No.2) General Structure and Function of STI Policy and System
- (No.3) Japan's new STI Basic Law and 5-year STI Basic Plan
- (No.4) Comparison STI policies and systems of major countries.
- (No.5) "Securitization of STI Policy" (OECD)
- (No.6) Sustainable Development Goals (SDGs) and STI

- (NO.7) Term papers #1 and Discussions
- (No.8) Trends of Emerging Technologies and Governance
- (No.9) R & D Funding System and Management
- (No.10) Mission-oriented innovation policy
- (No.11) Science and Technology Advice and Diplomacy
- (No.12) Development of STI Workforce and diverse Barrier
- (No.13) Global History of S&T systems
- (No.14) Modernization and S&T in Japan
- (No.15) Term paper #2 and final discussions

2-2. Details

(No.1) Discussions on Contemporary Society and STI Policies

Exchange opinions on students awareness of current issues.

Introduction to the core contents of SciREX (Science of STI Policy Program).

Deepen understanding of the role of science and technology policy in an era of rapid change, encompassing political, economic, and security issues, to acquire perspectives for future studies.

(No.2) General Structure and Function of STI Policy and System

Introduction to the traditional structure and system of STI policy.

Understand the expanding scope of STI policy and the increasing interactions with other public policies in recent years.

(No.3) Japan's New STI Basic Law and 5-Year STI Basic Plan

Discuss the significant revision of Japan's Basic Act on Science and Technology in 2020, the first in 25 years, considering the background and future directions.

(No.4) Comparison of STI Policies and Systems of Major Countries

Acquire comparative views of STI policies and systems of major countries based on historical and societal contexts.

Explore the changing international landscape of STI collaboration and competition due to global transitions, with a focus on the roles of organizations like OECD, UN, EU, ASEAN, and the International Science Council.

(No.5) "Securitization" of STI Policy (OECD)

Discuss OECD's concept of Securitization of STI and its implications, emphasizing the strategic importance of science and technology in addressing domestic and international challenges.

Reflect on the OECD-STI Ministerial Meeting held in April 2024. Ministers called for STI policies to accelerate sustainability transitions and embedding of shared values in international co-operation and technology governance.

(No.6) Sustainable Development Goals (SDGs) and STI

Introduce the SDGs as a global vision for the 21st century and discuss the role of science and technology in achieving these goals.

Explore current situations, challenges, and the importance of a transdisciplinary approach for addressing SDGs.

(No.7) Term Papers #1 and Discussions

Students write short essays on their research and STI policy, followed by presentations and discussions on future study and research.

(No.8) Trends of Emerging Technologies and Governance

Present mega-trends in the development of emerging technologies such as AI, quantum technology, and biotechnology and their societal impacts.

Discuss the governance of these technologies as major global political, economic, and security issues.

(No.9) R&D Funding System and Management

Explore the complex structures and functions of R&D funding systems, highlighting the importance of combining various policy instruments for effective implementation.

(No.10) Mission-oriented Innovation Policy

Introduce the concept of mission-oriented innovation policy based on experiences mainly in the OECD, EU, and Western countries.

Discuss Japanese cases and the importance of integrating this concept into STI policy and practice.

(No.11) Science and Technology Advice and Diplomacy

Examine the interface between science and politics, focusing on evidence-informed policymaking, socioeconomic impact assessment, and data infrastructure.

Discuss examples such as IPCC, Fukushima nuclear accident and COVID-19, experiences, and lessons learned to build a foundation for trustworthy science-policy-society interface.

(No.12) Development of STI Workforce and Diverse Careers

Explore evolving definitions of scientists, engineers, and S&T managers in a rapidly changing world.

Discuss new concepts of the STI workforce in the 21st century introduced by the United Nations, the International Science Council, and the EU.

(No.13) Global History of S&T Systems

Present structural transformation of Science, Technology, Society and Industry in the history of the World.

Explore new concepts and frameworks of STI transitions for future thinking, such as the World Economic Forums "Fourth Industrial Revolution", Japan's "Society 5.0", and Germany's "Industry 4.0".

(No.14) Modernization and S&T in Japan

Present the historical context of Japan's modernization since the Edo and Meiji periods, including policies and STI activities.

Discuss lessons learned from past experiences, such as pollution control measures in the 1970s and Japan-U.S. economic and technological frictions in the 1980s.

(No.15) Term Papers #2 and Final Discussions

Students write short essays on their future studies and careers, followed by a question-and-answer session to exchange opinions and solidify perspectives.

Study outside the class, how to complete the course, etc.

(1) Students are required to check the relevant materials and other materials as prerequisite and postrequisite studies for each lecture.

- (2) In order to enhance the effectiveness of each class, it is recommended to have an overview of the references listed in the syllabus as prior learning to understand the position and future direction of their study.
- (3) Students should prepare for term papers in advance for the discussions.
- (4) Other information will be presented in the lectures as necessary, based on the opinions of the students.

3. Grading :

- (1) The degree of participation and contribution to the discussion, writing and presentation of a term paper, and ability to exchange opinions will be evaluated.

(2) Grading Criteria

- A: High level of achievement of the achievement objectives
- B: Satisfactory achievement of the achievement objectives
- C: The achievement goal is generally achieved.
- D: At least the minimum level of achievement has been attained.
- E: The achievement goal is not achieved

4. Textbooks and References (4-1:Required 4-2:Others)

- (1) "Transformative policies and anticipatory governance are key to optimizing benefits and managing risks of new emerging technologies", OECD, Science & technology policy Ministerial 2024. 24/4/2024 <https://www.oecd.org/newsroom/transformative-policies-and-anticipatory-governance-are-key-to-optimising-benefits-and-managing-risks-of-new-emerging-technologies.htm>
- (2) "Transformation of science, technology and innovation (STI) policy in Japan", by Tateo Arimoto, in "Special Issue: Reforming Japanese Capitalism", Asian Pacific Business Review (APBR), Routledge, Feb. 2024, <https://www.tandfonline.com/doi/pdf/10.1080/13602381.2024.2320539>
- (3) "OECD Science, Technology and Innovation Outlook 2023 STI Policies as Enablers of Transitions", OECD, March 2023. <https://www.oecd.org/sti/science-technology-innovation-outlook/>
- (4) "Transforming our world: the 2030 Agenda for Sustainable Development", The United Nations, 2015.
- (5) "Our Common Agenda- United Nations Secretary General Report", The United Nations, 2021.
- (6) "Global Sustainable Development Report(GSDR) 2019", July 2019, The United Nations. <https://sustainabledevelopment.un.org/globalsdreport/>. "Global Sustainable Development Report(GSDR) 2023 - Times of Crisis, Times of Change: Science for Accelerating Transformations to Sustainable Development, July 2023, The United Nations. <https://sdgs.un.org/gsdr/gsdr2023>
- (7) "Guidebook for the preparation of STI for SDGs Roadmaps", UN Inter-Agency Task Team on STI for SDGs, September 2021. <https://sdgs.un.org/documents/guidebook-preparation-sti-sdgs-roadmaps-english-edited-version-33019>
- (8) "The World in 2050" by International Institute for Applied Systems Analysis (IIASA). <https://iiasa.ac.at/web/home/research/twi/TWI2050.html>. ①1st Report : "Transformations to achieve the Sustainable Development Goals", July 2018. ②2nd Report : "The Digital Revolution and Sustainable Development - Opportunities and Challenges",

July 2019. ③3rd Report : "Innovations for Sustainability - Pathways to an efficient and sufficient post-pandemic future", July 2020.

(9) "Mobilizing Science, Technology and Innovation for SDGs Japanese Actions in STI for SDGs", April 2021, Japan Science and Technology Agency.

(10) "Transforming Science, Technology and Innovation for a Sustainable and Resilient Society", by M.Nakamura, T.Arimoto et al., Science and Diplomacy (AAAS), November 2021. .
<https://www.sciencediplomacy.org/article/2021/transforming-science-technology-and-innovation-sti-for-sustainable-and-resilient>

(11) "Addressing Societal Challenges using Transdisciplinary Research", OECD/Global Science Forum, June 2020.

(12) "The Design and Implementation of mission-oriented Innovation Policies A New Systemic Policy Approach to Address Social Challenges", OECD Science, Technology and Industry, Policy Papers, February 2021. https://www.oecd-ilibrary.org/science-and-technology/the-design-and-implementation-of-mission-oriented-innovation-policies_3f6c76a4-en

"Mission-oriented innovation policy in Japan - Challenges, opportunities and future options", Science, Technology and Industry Policy Paper, April 2021, OECD. <https://www.oecd.org/japan/mission-oriented-innovation-policy-in-japan-a93ac4d4-en.htm>

(13) "Mobilising science in response to crises: Lessons learned from COVID-19", OECD/GSF, Science, Technology and Industry policy papers No.155 July 2023.

(14) "Science for Policy Handbook", EU, Joint Research Center (JRC), 28 July, 2020.
<https://www.sciencedirect.com/book/9780128225967/science-for-policy-handbook>

(15) "Strategy guidance note on science-policy interface", United Nations, Committee on Experts of Public Administration (CEPA)", 15.04.2021.
<https://informedfutures.org/strategy-guidance-note-on-the-science-policy-interface/>

(16) "A Decade of Science & Diplomacy", by William Colglazier et al, AAAS, October 2022.

(17) "Three frames for innovation policy: R&D, systems of innovation and transformative change", J.Schot and W.E.Steinmueller, Research Policy 47(2018) 1554-1567.

(18) "The Oxford Handbook of Innovation", edited by Jan Fagerberg, David Mowery and Richard Nelson, Oxford University Press, 2005.

(19) "Panoramic views Report 2023", Center for R & D Strategy (CRDS), Japan Science and Technology Agency(JST), April 2023. Executive summaries for five reports in English.
<https://www.jst.go.jp/crds/en/publications/index.html>

① Panoramic View Report : Integrated Version, ② Environment and Energy Field

③ Systems and Information S&T Field, ④ Nanotechnology/Materials Research Field

⑤ Life Science and Clinical Research Field

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI8011E

講義名[日本語(英語)] / Class Name : Research Seminar I

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬 Fall, Winter/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

This is a course to prepare PHD and Masters students for thesis writing. This course covers subject such as: how to design research, define research questions, build hypothesis as well as apply quantitative and qualitative methodologies that are required to proceed with the research.

This course strongly encourages the student participation in terms of oral presentation and participation on discussion. Almost all the classes will have either presentation or discussion time to share view to deepen the understandings that are acquired from readings and lectures.

This course is first attempt to design a course to prepare for the thesis writing. Although this course is designed for the first year PHD and Master students, all the PHD students are strongly recommended to attend.

[Related Diploma Policy (DP)]

Highly relevant:

3. The ability using scientific approach, for issues related to science and technology innovation policy, to set up problems based on past scientific knowledge, to construct hypotheses, to conduct independent analysis using various quantitative and qualitative data including data specific to science and technology innovation, to compile research papers and policy proposals, and to present them to policy makers and communicate them.

Relevant:

1. Advanced academic and interdisciplinary expertise in science, technology, and innovation and policies, and the ability to apply them to policy issues in multiple ways.

Partially relevant:

4. High level of understanding on the formulation and implementation of science and technology innovation policies and the ability to make practical policy recommendations that bridge theory and practice

5. The ability to act as a leader by respecting different values and systems in a global society and understand especially science, technology, and innovation policies and is willing to communicate with others.

[Course Goals]

Students can:

(1) understand how to define research questions, build hypothesis, apply quantitative and qualitative

methodologies that are required to proceed with the research.

(2) acquire skills to give a presentation on their research.

2. Course Outline :

In class, the following topics will be lectured on and each students research plan will be discussed.

Video-on-demand materials on how to write a doctoral research plan for QE will be provided, which will be viewed and followed by a question-and-answer session (video materials will be provided in class).

Topics:

1 Research Design, epistemology, research questions

Bring your research plan with you at the time of entrance examination and be prepared to talk about your research interests.

(1)序章、第 1 : (2) ch1&ch6

2 Hypothesis building

Short presentation on your progress in building Research Questions (at the start of the session) & discussions

(1)第 2 章、(2) ch6

3 Qualitative/Quantitative methods

Discuss your choice of methodology to answer your Research Questions

(1); (2)ch9, 10 if needed (3)

4 Surveying literature, Using Theory

Literature surveys

(1) 第 3 章, (2) ch2, ch7

5 Preparation of PhD research proposal documents

Presentation of his/her thesis proposal

Presentations and Q&A

*chapter number needs to be reviewed again as edition changes of the book may alter the numbering of the chapters.

Books used in the lecture ((1) and (2) are available in GRIPS library):

(1) Creswell, J. W. 2003. Research Design: Qualitative, Quantitative and Mixed Methods Approaches. Thousand Oaks: Sage.

a.人間科学のための混合研究法 : 質的・量的アプローチをつなぐ研究デザイン,
J.W.クレスウェル, V.L.プラノ クラーク 著 ; 大谷順子訳, 京都 : 北大路書房, 2010.11

b. 研究デザイン—質的・量的・そしてミックス法
J.W.クレスウェル 著 操 華子 (翻訳), 森岡 崇 (翻訳)

- (2) 伊藤修一郎「政策リサーチ入門：仮説検証による問題解決の技法」東京大学出版会，2011年。
- (3) Yin, Robert 2012. Applications of Case Study Research, Thousand Oaks: Sage.

[Out-of-class Learning]

Students should prepare their presentations for each class.

3. Grading :

presentation and contribution to the discussion (pass or fail)

[Evaluation Criteria]

Pass: student achievement is above the course goals.

fail: student achievement is below the acceptable level.

4. Textbooks and References (4-1:Required 4-2:Others)

Please refer to the 2.Course Outline. In addition, there are as follows:

Creswell, J. W. 2003. Research Design: Qualitative, Quantitative and Mixed Methods Approaches. Thousand Oaks: Sage.

人間科学のための混合研究法：質的・量的アプローチをつなぐ研究デザイン,J.W.クレスウェル, V.L.プラノ クラーク著；大谷順子訳, 京都：北大路書房。

研究デザイン—質的・量的・そしてミックス法 J.W.クレスウェル著操 華子 (翻訳), 森岡 崇 (翻訳)

伊藤修一郎「政策リサーチ入門：仮説検証による問題解決の技法」東京大学出版会，2011年。

Yin, Robert 2012. Applications of Case Study Research, Thousand Oaks: Sage.

Alexander George and Andrew Bennett. 2005. Case Studies and Theory Development in the Social Sciences, MIT Press.

Andrew Bennett and Jeffrey Checkel. 2015. Process Tracing: From Metaphor to Analytic Tool, Cambridge University Press.

Other relevant papers:

Bennett, A. and Elman, C. (2006) Complex Causal Relations and Case Study Methods: The Example of Path Dependence, Political Analysis, Vol 14 pp.250-267.

Bennett, A. and Elman, C. (2007) Case Study Methods in the International Relations Subfield, Comparative Political Studies, Vol 40, No. 2, pp.170-195.

Eisenhardt, K.M (1989) Building Theories from Case Study Research, The Academy of Management Journal, Vol. 14, No. 4 (Oct., 1989), pp. 532-550.

Eisenhardt, K.M(2007) Theory Building from Cases: Opportunities and Challenges, The Academy of Management Journal, Vol. 50, No. 1 (Feb., 2007), pp. 25-32.

General guideline for writing thesis

Patcheko K.(2018) Research Questions, Hypothesis, and Purpose Statements, in Patcheko, K. How to Write about Economics and Public Policy, Elsevier, Academic Press, pp 93-117.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

☐ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI8021E

講義名[日本語(英語)] / Class Name : Research Seminar II

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬 Fall, Winter/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

Research Seminar series (II-VI) is intended to assist doctoral students in the preparation of a dissertation. In Research Seminar II-IV, student will make presentations on the progress of his/her research project. The goal is to apply cumulative understanding and skills to specific research situation, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality. It is also supposed to be training for presentations at academic conference and for writing an academic journal paper. Research Seminar V-VI will focus on key issues preparing dissertation. The whole structure of his/her dissertation as well as the format standards and project management will be reviewed.

[Related Diploma Policy (DP)]

Highly relevant:

3. The ability using scientific approach, for issues related to science and technology innovation policy, to set up problems based on past scientific knowledge, to construct hypotheses, to conduct independent analysis using various quantitative and qualitative data including data specific to science and technology innovation, to compile research papers and policy proposals, and to present them to policy makers and communicate them.

Relevant:

1. Advanced academic and interdisciplinary expertise in science, technology, and innovation and policies, and the ability to apply them to policy issues in multiple ways.

Partially relevant:

4. High level of understanding on the formulation and implementation of science and technology innovation policies and the ability to make practical policy recommendations that bridge theory and practice

5. The ability to act as a leader by respecting different values and systems in a global society and understand especially science, technology, and innovation policies and is willing to communicate with others.

[Course Goals]

Students can:

(1) apply their cumulative understanding and skills to own reserach project, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality.

(2) make presentations and write an academic paper.

2. Course Outline :

Research Seminars (II-VI) will be open every month (Fall/Winter term, and Spring/Summer term) except for August to encourage vigorous discussion. Some seminars is more than one slot. Some months, class time may exceed one class period.

Students should register to Research Seminar I after his/her entry to the program, then Research Seminar II (after 6 months), III (after 12 months), and IV (after 18 months) V (after 24 months) VI (after 30 months) subsequently in this order. For the students who graduate earlier than the standard period of study, Research Seminar V and VI are categorized as optional courses.

Each student is to present AT LEAST 1 time per 6 months period.

Each student is to be a discussant AT LEAST 1 times per 6 months periods.

Presenters need to give paper/slide presentations to the assigned discussant at least 3 days before the presentation day.

Each presentation should be STRICTLY 20 mins. Time should not be exceeded.

The discussant will have 5-10 mins to discuss the presentation. This will be followed by general discussion (10-15mins).

[Out-of-class Learning]

Students should prepare their presentations and discussion comments.

3. Grading :

To pass the course, students are required to participate actively to the seminar (presentations, Q&A and discussions).

4. Textbooks and References (4-1:Required 4-2:Others)

No specific textbook.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

As this research seminar may be a good opportunity to prepare for your presentations (at oral QE, academic conference, and dissertation defense),

the students are strongly encouraged to participate as many times as you can.

In addition, the students who are NOT required to register (including master students) are ALSO recommended to attend as a presenter or a discussant.

Language: English for PhD students, English whenever possible for Master students.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI8031E

講義名[日本語(英語)] / Class Name : Research Seminar III

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬 Fall, Winter/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

Research Seminar series (II-VI) is intended to assist doctoral students in the preparation of a dissertation. In Research Seminar II-IV, student will make presentations on the progress of his/her research project. The goal is to apply cumulative understanding and skills to specific research situation, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality. It is also supposed to be training for presentations at academic conference and for writing an academic journal paper. Research Seminar V-VI will focus on key issues preparing dissertation. The whole structure of his/her dissertation as well as the format standards and project management will be reviewed.

[Related Diploma Policy (DP)]

Highly relevant:

3. The ability using scientific approach, for issues related to science and technology innovation policy, to set up problems based on past scientific knowledge, to construct hypotheses, to conduct independent analysis using various quantitative and qualitative data including data specific to science and technology innovation, to compile research papers and policy proposals, and to present them to policy makers and communicate them.

Relevant:

1. Advanced academic and interdisciplinary expertise in science, technology, and innovation and policies, and the ability to apply them to policy issues in multiple ways.

Partially relevant:

4. High level of understanding on the formulation and implementation of science and technology innovation policies and the ability to make practical policy recommendations that bridge theory and practice

5. The ability to act as a leader by respecting different values and systems in a global society and understand especially science, technology, and innovation policies and is willing to communicate with others.

[Course Goals]

Students can:

(1) apply their cumulative understanding and skills to own reserach project, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality.

(2) make presentations and write an academic paper.

2. Course Outline :

Research Seminars (II-VI) will be open every month (Fall/Winter term, and Spring/Summer term) except for August to encourage vigorous discussion. Some seminars is more than one slot. Some months, class time may exceed one class period.

Students should register to Research Seminar I after his/her entry to the program, then Research Seminar II (after 6 months), III (after 12 months), and IV (after 18 months) V (after 24 months) VI (after 30 months) subsequently in this order. For the students who graduate earlier than the standard period of study, Research Seminar V and VI are categorized as optional courses.

Each student is to present AT LEAST 1 time per 6 months period.

Each student is to be a discussant AT LEAST 1 times per 6 months periods.

Presenters need to give paper/slide presentations to the assigned discussant at least 3 days before the presentation day.

Each presentation should be STRICTLY 20 mins. Time should not be exceeded.

The discussant will have 5-10 mins to discuss the presentation. This will be followed by general discussion (10-15mins).

[Out-of-class Learning]

Students should prepare their presentations and discussion comments.

3. Grading :

To pass the course, students are required to participate actively to the seminar (presentations, Q&A and discussions).

4. Textbooks and References (4-1:Required 4-2:Others)

No specific textbook.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

As this research seminar may be a good opportunity to prepare for your presentations (at oral QE, academic conference, and dissertation defense),

the students are strongly encouraged to participate as many times as you can.

In addition, the students who are NOT required to register (including master students) are ALSO recommended to attend as a presenter or a discussant.

Language: English for PhD students, English whenever possible for Master students.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI8041E

講義名[日本語(英語)] / Class Name : Research Seminar IV

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬 Fall, Winter/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

Research Seminar series (II-VI) is intended to assist doctoral students in the preparation of a dissertation. In Research Seminar II-IV, student will make presentations on the progress of his/her research project. The goal is to apply cumulative understanding and skills to specific research situation, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality. It is also supposed to be training for presentations at academic conference and for writing an academic journal paper. Research Seminar V-VI will focus on key issues preparing dissertation. The whole structure of his/her dissertation as well as the format standards and project management will be reviewed.

[Related Diploma Policy (DP)]

Highly relevant:

3. The ability using scientific approach, for issues related to science and technology innovation policy, to set up problems based on past scientific knowledge, to construct hypotheses, to conduct independent analysis using various quantitative and qualitative data including data specific to science and technology innovation, to compile research papers and policy proposals, and to present them to policy makers and communicate them.

Relevant:

1. Advanced academic and interdisciplinary expertise in science, technology, and innovation and policies, and the ability to apply them to policy issues in multiple ways.

Partially relevant:

4. High level of understanding on the formulation and implementation of science and technology innovation policies and the ability to make practical policy recommendations that bridge theory and practice

5. The ability to act as a leader by respecting different values and systems in a global society and understand especially science, technology, and innovation policies and is willing to communicate with others.

[Course Goals]

Students can:

(1) apply their cumulative understanding and skills to own reserach project, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality.

(2) make presentations and write an academic paper.

2. Course Outline :

Research Seminars (II-VI) will be open every month (Fall/Winter term, and Spring/Summer term) except for August to encourage vigorous discussion. Some seminars is more than one slot. Some months, class time may exceed one class period.

Students should register to Research Seminar I after his/her entry to the program, then Research Seminar II (after 6 months), III (after 12 months), and IV (after 18 months) V (after 24 months) VI (after 30 months) subsequently in this order. For the students who graduate earlier than the standard period of study, Research Seminar V and VI are categorized as optional courses.

Each student is to present AT LEAST 1 time per 6 months period.

Each student is to be a discussant AT LEAST 1 times per 6 months periods.

Presenters need to give paper/slide presentations to the assigned discussant at least 3 days before the presentation day.

Each presentation should be STRICTLY 20 mins. Time should not be exceeded.

The discussant will have 5-10 mins to discuss the presentation. This will be followed by general discussion (10-15mins).

[Out-of-class Learning]

Students should prepare their presentations and discussion comments.

3. Grading :

To pass the course, students are required to participate actively to the seminar (presentations, Q&A and discussions).

4. Textbooks and References (4-1:Required 4-2:Others)

No specific textbook.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

As this research seminar may be a good opportunity to prepare for your presentations (at oral QE, academic conference, and dissertation defense),

the students are strongly encouraged to participate as many times as you can.

In addition, the students who are NOT required to register (including master students) are ALSO recommended to attend as a presenter or a discussant.

Language: English for PhD students, English whenever possible for Master students.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI8071E

講義名[日本語(英語)] / Class Name : Research Seminar V

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬 Fall, Winter/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

Research Seminar series (II-VI) is intended to assist doctoral students in the preparation of a dissertation. In Research Seminar II-IV, student will make presentations on the progress of his/her research project. The goal is to apply cumulative understanding and skills to specific research situation, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality. It is also supposed to be training for presentations at academic conference and for writing an academic journal paper. Research Seminar V-VI will focus on key issues preparing dissertation. The whole structure of his/her dissertation as well as the format standards and project management will be reviewed.

[Related Diploma Policy (DP)]

Highly relevant:

3. The ability using scientific approach, for issues related to science and technology innovation policy, to set up problems based on past scientific knowledge, to construct hypotheses, to conduct independent analysis using various quantitative and qualitative data including data specific to science and technology innovation, to compile research papers and policy proposals, and to present them to policy makers and communicate them.

Relevant:

1. Advanced academic and interdisciplinary expertise in science, technology, and innovation and policies, and the ability to apply them to policy issues in multiple ways.

Partially relevant:

4. High level of understanding on the formulation and implementation of science and technology innovation policies and the ability to make practical policy recommendations that bridge theory and practice

5. The ability to act as a leader by respecting different values and systems in a global society and understand especially science, technology, and innovation policies and is willing to communicate with others.

[Course Goals]

Students can:

(1) apply their cumulative understanding and skills to own reserach project, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality.

(2) make presentations and write an academic paper.

2. Course Outline :

Research Seminars (II-VI) will be open every month (Fall/Winter term, and Spring/Summer term) except for August to encourage vigorous discussion. Some seminars is more than one slot. Some months, class time may exceed one class period.

Students should register to Research Seminar I after his/her entry to the program, then Research Seminar II (after 6 months), III (after 12 months), and IV (after 18 months) V (after 24 months) VI (after 30 months) subsequently in this order. For the students who graduate earlier than the standard period of study, Research Seminar V and VI are categorized as optional courses.

Each student is to present AT LEAST 1 time per 6 months period.

Each student is to be a discussant AT LEAST 1 times per 6 months periods.

Presenters need to give paper/slide presentations to the assigned discussant at least 3 days before the presentation day.

Each presentation should be STRICTLY 20 mins. Time should not be exceeded.

The discussant will have 5-10 mins to discuss the presentation. This will be followed by general discussion (10-15mins).

[Out-of-class Learning]

Students should prepare their presentations and discussion comments.

3. Grading :

To pass the course, students are required to participate actively to the seminar (presentations, Q&A and discussions).

4. Textbooks and References (4-1:Required 4-2:Others)

No specific textbook.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

As this research seminar may be a good opportunity to prepare for your presentations (at oral QE, academic conference, and dissertation defense),

the students are strongly encouraged to participate as many times as you can.

In addition, the students who are NOT required to register (including master students) are ALSO recommended to attend as a presenter or a discussant.

Language: English for PhD students, English whenever possible for Master students.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : STI8081E

講義名[日本語(英語)] / Class Name : Research Seminar VI

担当者 (フルネーム) / Course instructor (Full Name) : 関係教員/Various

学期・曜日・時限 / Term・Day・Period : 秋、冬 Fall, Winter/

単位数/ Credits : 1

1. Course Description and the Learning Objectives :

Research Seminar series (II-VI) is intended to assist doctoral students in the preparation of a dissertation. In Research Seminar II-IV, student will make presentations on the progress of his/her research project. The goal is to apply cumulative understanding and skills to specific research situation, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality. It is also supposed to be training for presentations at academic conference and for writing an academic journal paper. Research Seminar V-VI will focus on key issues preparing dissertation. The whole structure of his/her dissertation as well as the format standards and project management will be reviewed.

[Related Diploma Policy (DP)]

Highly relevant:

3. The ability using scientific approach, for issues related to science and technology innovation policy, to set up problems based on past scientific knowledge, to construct hypotheses, to conduct independent analysis using various quantitative and qualitative data including data specific to science and technology innovation, to compile research papers and policy proposals, and to present them to policy makers and communicate them.

Relevant:

1. Advanced academic and interdisciplinary expertise in science, technology, and innovation and policies, and the ability to apply them to policy issues in multiple ways.

Partially relevant:

4. High level of understanding on the formulation and implementation of science and technology innovation policies and the ability to make practical policy recommendations that bridge theory and practice

5. The ability to act as a leader by respecting different values and systems in a global society and understand especially science, technology, and innovation policies and is willing to communicate with others.

[Course Goals]

Students can:

(1) apply their cumulative understanding and skills to own reserach project, to communicate research ideas and their appropriate theoretical and methodological issues effectively and efficiently, and to critique others ideas paying particular attention to both theoretical and methodological rigor and reality.

(2) make presentations and write an academic paper.

2. Course Outline :

Research Seminars (II-VI) will be open every month (Fall/Winter term, and Spring/Summer term) except for August to encourage vigorous discussion. Some seminars is more than one slot. Some months, class time may exceed one class period.

Students should register to Research Seminar I after his/her entry to the program, then Research Seminar II (after 6 months), III (after 12 months), and IV (after 18 months) V (after 24 months) VI (after 30 months) subsequently in this order. For the students who graduate earlier than the standard period of study, Research Seminar V and VI are categorized as optional courses.

Each student is to present AT LEAST 1 time per 6 months period.

Each student is to be a discussant AT LEAST 1 times per 6 months periods.

Presenters need to give paper/slide presentations to the assigned discussant at least 3 days before the presentation day.

Each presentation should be STRICTLY 20 mins. Time should not be exceeded.

The discussant will have 5-10 mins to discuss the presentation. This will be followed by general discussion (10-15mins).

[Out-of-class Learning]

Students should prepare their presentations and discussion comments.

3. Grading :

To pass the course, students are required to participate actively to the seminar (presentations, Q&A and discussions).

4. Textbooks and References (4-1:Required 4-2:Others)

No specific textbook.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

As this research seminar may be a good opportunity to prepare for your presentations (at oral QE, academic conference, and dissertation defense),

the students are strongly encouraged to participate as many times as you can.

In addition, the students who are NOT required to register (including master students) are ALSO recommended to attend as a presenter or a discussant.

Language: English for PhD students, English whenever possible for Master students.

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : YLP5000E

講義名[日本語(英語)] / Class Name : Introduction to Japan

担当者 (フルネーム) / Course instructor (Full Name) : PRESSELLO Andrea/PRESSELLO Andrea

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/木 Thu/3 木 Thu/4

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

The purpose of this course is to provide a basic understanding of Japan through the discussion of its history and culture. In particular, the course examines the major transformations, issues, and challenges faced by Japan from ancient times to today, exploring domestic socio-political-economic and cultural developments, as well as Japanese relations with the world. The following main questions will be addressed during the course: what are the important transformations in Japanese history and culture? What factors explain change and continuity? How has Japan interacted with other countries in the course of its history? Through this course, students can gain a basic understanding of some of the major historical and societal developments and policy issues in Japan, and can acquire the ability to identify and explain factors shaping major processes and decisions by Japanese leaders. Such learning also contributes to deepen understanding of contemporary Japan and its people. During the course, some videos will be shown and one or two classes will be held in the form of a field trip to a site related to the contents of the course.

[Related Diploma Policy (DP)]

Young Leaders Program DP3

③Ability to build a strong foundation of relationship with Japan based on a deep understanding of Japan

[Course Goals]

Students can:

- understand issues and processes in Japan's history and society.
- develop the ability to identify and explain factors shaping Japanese leaders' choices, and their implications.

2. Course Outline :

- 1) Introduction
- 2) Understanding Japan: geography, religion, values, and traditional culture
- 3) Pre-modern Japan: socio-political-economic transformations
- 4) Cultural flourishing in the Edo period (1603-1868)
- 5) Japan in the mid-19th century: end of the "closed country" policy and the "Meiji Revolution"
- 6) The making of modern institutions, economy, and society in the Meiji period (1868-1912)
- 7) Emergence of Japan as an international power
- 8) Field trip

- 9) From progress in the democratization process to the rise of militarism
- 10) World War II, defeat, and the Occupation of Japan
- 11) Postwar Japan: recovery and issues I
- 12) Postwar Japan: recovery and issues II
- 13) Field Trip
- 14) Contemporary Japan: challenges and issues I
- 15) Contemporary Japan: challenges and issues II

* This course outline is subject to change.

[Out-of-class Learning]

In preparation for each class, students are expected to read the materials distributed by the instructor and write short reaction comments on them. After class, students are encouraged to review the contents of the lecture and their notes. Students are also encouraged to do further reading on specific topics of their interest that were discussed in class.

3. Grading :

Term paper: 60%

Weekly short reaction comments and contribution to class discussion: 40%

[Evaluation Criteria]

Student's achievement of the Course Goals is:

A: at a high level

B: at a satisfactory level

C: at a generally acceptable level

D: at a minimum acceptable level

E: did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

There is no specific textbook required for this course. Reading materials (such as journal articles, book chapters, other) will be provided by the instructor during the course.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

The use of generative artificial intelligence is not allowed when writing weekly assignments and the term paper. Software that provide support with English grammar and spelling can be used.

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : YLP5010E

講義名[日本語(英語)] / Class Name : Colloquium

担当者 (フルネーム) / Course instructor (Full Name) : 高田 寛文/TAKADA Hirofumi

学期・曜日・時限 / Term・Day・Period : 秋～春 Fall through Spring/金 Fri/5

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

【Outline of this lecture】

In this course, YLP students will be provided with an opportunity to listen and discuss various topics in public administration and public policies with young government leaders and frontrunners in various fields, with the objectives of furnishing the students with profound knowledge and understanding on policy issues viewed from a broad perspective.

Relevant Diploma Policies (qualities and abilities to be acquired by students): Young Leaders Program Diploma Policy (1) Ability to play an active role as a national leader in Asia and other countries around the world, and (3) Ability to build and develop friendly relations with Japan based on a deep understanding of Japan.

【Achievement Goals】

- Students can enlarge their knowledge and understanding on a wide range of public policy issues faced by Japanese society and economy.
- Students can also acquire leadership capability through encounters with leading professionals in government and other fields.

2. Course Outline :

Topics of each class will be provided by the respective guest speakers.

However, lectures by speakers from government organizations will be mainly focused on organizational structure, missions, issues and challenges of their organizations.

【Out-of-class learning】

In principle, lecture materials will be distributed in advance of each class, and students have to read and learn the outline features of the topic.

After each class, students must review the materials of the class and, when necessary, refer to the additional materials to deepen understanding of the topics.

Students must also submit a report that summarizes and discusses the content of a lecture from a comparative and leadership perspective.

3. Grading :

Pass/Fail

Grade criteria are as follows;

Pass: Actively contribute to class discussion, and present understanding on class content in individual report.

Fail: Not contribute to class discussion, and cannot present understanding on class content in individual report.

4. Textbooks and References (4-1:Required 4-2:Others)

No required textbooks.

Handouts will be prepared by the lecturers.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

☒ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : YLP5030E

講義名[日本語(英語)] / Class Name : Field Trip

担当者 (フルネーム) / Course instructor (Full Name) : PRESSELLO Andrea/PRESSELLO Andrea

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

[Course Description]

The aim of the field trip is to deepen the students' understanding of Japan by visiting sites in local areas related to Japanese history, culture, society, institutions or industry. Through the trip, students can gain knowledge and understanding of policy issues and institutions in Japanese local areas. Students can also obtain knowledge about local communities, their culture and traditions. Before the departure, a briefing session will be held to provide the necessary details and information about the trip.

[Related Diploma Policy (DP)]

Young Leaders Program DP1, DP3

①Ability to play an active role as a national leader in Asian countries.

③Ability to build a strong foundation of relationship with Japan based on a deep understanding of Japan.

[Course Goals]

Students can:

-- understand policy issues, institutions, and cultural and historical peculiarities in local areas of Japan.

2. Course Outline :

TBA

[Out-of-class Learning]

In preparation for the trip, and based on the handout provided by the instructor at the briefing session, students are expected to read materials about the relevant areas, issues, and sites of the trip. After the trip, students are encouraged to do further reading on specific topics or issues of their interest, about which they learnt during the trip.

3. Grading :

Reaction paper: 100%

This class will be graded on a Pass/Fail basis.

P Pass: Achieved the goal

F Fail: Did not achieve the goal

4. Textbooks and References (4-1:Required 4-2:Others)

A handout will be provided by the instructor.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

The use of generative artificial intelligence is not allowed when writing the reaction paper. Software that provide support with English grammar and spelling can be used.

6. Auditing ; Allow or Not Allow

☒ Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : YLP5510E

講義名[日本語(英語)] / Class Name : Independent Study

担当者 (フルネーム) / Course instructor (Full Name) : 高田 寛文 他/TAKADA Hirofumi, et al.

学期・曜日・時限 / Term・Day・Period : 秋～夏 Fall through Summer/

単位数/ Credits : 4

1. Course Description and the Learning Objectives :

【Outline of this lecture】

This course aims to master empirical analysis of social phenomena and conduct practical research on realizing politically influential policy proposals based on each students awareness of the issues. Particular emphasis is placed on formulating students original research plans, verifying hypotheses based on actual data, and compiling analytical results. The course also aims to improve students ability to present their research results in persuasive presentations and critically evaluate their research findings.

Relevant Diploma Policies (qualities and abilities to be acquired by students): Young Leaders Program Diploma Policy (4) Ability to analyze specific policy issues, formulate policy recommendations on them, and present them.

【Achievement Goals】

- Students can exercise their abilities to analyze particular policy issues, to formulate policy ideas and to transform them into concrete policy proposals.
- Students are able to demonstrate their presentation and discussion skills.

2. Course Outline :

This course is an interactive seminar that focuses on student reporting and discussion. Specifically, we will meet on Fridays during the 5th period when there is no Colloquium for 30 sessions (including a full-day presentation scheduled for early July) throughout the year.

In the first half of the course, we will emphasize the development of each students research plan. In the second half, each student will formulate a hypothesis, test it against actual data, and summarize the analysis results. In each session, students will examine the weeks issues in advance and write a comment on the presentation and discussion after class.

【Out-of-class learning】

Consultation and discussion opportunities on students research topics will be organized.

Students must conduct their researches out of class in an independent manner in order to prepare for consultation, discussion and presentation in this course.

3. Grading :

Evaluation will be based on the reports content and contribution to the class discussion.

Grade criteria are as follows;

A: Sufficiently exercise strong abilities in analyzing policy issues, formulating policy ideas, and presenting

policy proposals at a high level, and also demonstrate high skills in presentation and discussion.

B: Exercise abilities in analyzing policy issues, formulating policy ideas, and presenting policy proposals at a satisfactory level, and also demonstrate skills in presentation and discussion.

C: Exercise abilities in analyzing policy issues, formulating policy ideas, and presenting policy proposals in general, and also demonstrate skills in presentation and discussion at a generally acceptable degree.

D: Exercise abilities in analyzing policy issues, formulating policy ideas, and presenting policy proposals at the lowest acceptable degree, and demonstrate minimum skills in presentation and discussion.

E: Cannot exercise abilities in analyzing policy issues, formulating policy ideas, and presenting policy proposals, nor demonstrate skills in presentation and discussion. Rejection.

4. Textbooks and References (4-1:Required 4-2:Others)

Petchko, Katerina. 2018. How to Write about Economics and Public Policy. Academic Press.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

Academic Year: (April 2024 - March 2025)

科目番号 / Course Number : YLP5550E

講義名[日本語(英語)] / Class Name : Workshop

担当者 (フルネーム) / Course instructor (Full Name) : 高田 寛文/TAKADA Hirofumi

学期・曜日・時限 / Term・Day・Period : 秋学期 Fall/

単位数/ Credits : 2

1. Course Description and the Learning Objectives :

【Outline of this lecture】

During Workshop which will be arranged for the students in YLP School of Local Governance at the end of the Fall term, students will visit several local governments to meet with officials who will share their first-hand experiences and practices in policy planning and implementation. Students will also have a chance to visit various facilities such as a day care center for elderly people and a roadside station for on-the-spot sales of local products.

Students may thus be able to understand how the Japanese local government system actually functions in everyday life in Japan.

Workshop Report written by individual students and a group presentation are required.

Relevant Diploma Policies (qualities and abilities to be acquired by students): Young Leaders Program Diploma Policy (1) Ability to play an active role as a national leader in Asia and other countries around the world, and (3) Ability to build and develop friendly relations with Japan based on a deep understanding of Japan

【Achievement Goals】

Students can acquire first-hand experiences and practical knowledge on how local government in Japan actually functions in regions through interactions with officials of local governments.

2. Course Outline :

Workshop will be a four-day trip for 2024 academic year, which will include;

- (i) visit to local governments
 - (ii) visit to NPO in welfare service
 - (iii) visit to local cultural assets
- and others.

Details will be announced later.

【Out-of-class learning】

Orientation will be held and an information brochure will be prepared, and students must read and learn the outline of each destination in advance of visit.

After the Workshop, students are also required to review the actual functioning of local governments in Japan to further understanding on it, and discuss and prepare for a group presentation on the assigned destinations that will be held in a week in principle.

3. Grading :

Pass/Fail

Grade criteria are as follows;

Pass: Having acquired practical knowledge on the functioning of local governments in Japan through interactions with local officials, and present it in individual report and a group presentation.

Fail: Not acquire practical knowledge on the functioning of local governments in Japan through interactions with local officials, and cannot present it in individual report and a group presentation.

4. Textbooks and References (4-1:Required 4-2:Others)

Materials will be distributed.

5. Software Used in Lectures (If not applicable, it can be left blank.) :

N/A

6. Auditing ; Allow or Not Allow

否 Not Allow

7. Note :

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number :

講義名[日本語(英語)] / Class Name : 政策研究特論(AI 政策実践論)

担当者 (フルネーム) / Course instructor (Full Name) : 宮本 大輔/MIYAMOTO Daisuke

学期・曜日・時限 / Term・Day・Period : 秋後期・Fall (Session II)・火 Tue/3

単位数/ Credits : 1

1. 本授業の概要及び到達目標 :

近年の生成 AI の普及により、AI 技術が社会のあらゆる分野において重要な役割を果たすようになってきた。本講義では、AI 技術を実際に触れながら学び、その知識を政策研究に応用するためのスキルを身につけることを目指す。本講義を通じて、受講者は AI 技術の基本概念から最新の法的小よび倫理的課題まで幅広い知識を身につけ、政策研究における実践的なスキルを習得することが期待される。また、AI 技術を正しく理解し、社会における AI の利活用について深く考える能力を養うことを目指す。

本授業を通じ、学生は AI の利用におけるリスクとその対応方法についての全体像を得られる。また、今日の AI 技術についての技術動向・法規制動向・政策動向について知見が得られる。

2. 各授業のテーマ :

第 1 回目は生成 AI の使い方についてのチュートリアルを行う。受講者は生成 AI の基本概念とその仕組みを学び、実際にツールを使って AI を生成する体験をする。

第 2 回目は AI の歴史についての講義を行う。AI 技術の発展の歴史と重要なマイルストーン、代表的な AI 研究者の貢献を通じて、現代における AI の影響を理解する。また、授業後半 30 分程度は、授業内容をまとめ、サマリーを作成する演習を行う。

第 3 回目は AI と法律についての講義を行う。特に欧州 AI 法に焦点を当て、その概要と主要な規定、施行に伴う影響と課題について説明する。後半 30 分は同様の演習を行う。

第 4 回目は AI と人権、倫理についての講義を行う。AI 技術と人権に関する基本的な概念や倫理的課題、AI の責任について学ぶ。ハーバード大学バークマンクラインセンターの「AI and Human Rights」論文を参考にし、後半 30 分は同様の演習を行う。

第 5 回目は「我が国および諸外国の AI 動向」というサブタイトルで、日本の AI 政策や技術動向について諸外国と比較しながら各国の特徴を学ぶ。後半 30 分は同様の演習を行う。

第 6 回目は AI のリスクアセスメントについて検討する。AI の利活用が不平等を生まないようにするための考慮点や、リスクアセスメントの基本概念と手法について学ぶ。後半 30 分は同様の演習を行う。

第 7 回目は「AI の法的課題とセキュリティリスク：著作権とサイバー攻撃」というテーマで、AI に関連

する著作権の問題や AI を悪用したサイバー攻撃について講義する。後半 30 分は同様の演習を行う。

第 8 回目は最終回として、日本の AI 政策についての研究を行う。受講者はプロンプトを入力し、様々な論点から AI 政策を説明する演習を行う。また、ディスカッションとフィードバックの共有を通じて研究結果をまとめ、発表する。

3. 成績の評価方法：

1. 成績の評価方法

- 1) 評価項目（筆記試験、レポート、授業への貢献度等）の比重
第 2 回～第 8 回におけるレポートによって評価する（100%）
- 2) 課題提出遅延時のペナルティの有無（有りの場合はその内容）
やむを得ない場合を除き、レポート提出の遅延は認めない。
- 3) その他、必要と思われる要件（任意）
基本的に、全ての回の出席を単位取得の基本要件とする。
例外は感染症などのやむを得ない場合とする。

2. 成績評価基準

- A 90-100 合格 到達目標を高い水準で達成している
- B 80-89 合格 到達目標を満足できる水準で達成している
- C 70-79 合格 到達目標を概ね達成している
- D 60-69 合格 到達目標を最低限の水準で達成している
- E 0-59 不合格 到達目標を達成していない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

- 4-1: 特になし
- 4-2: その他

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

Microsoft Copilot

6. 聴講の可否

否 Not Allow

7. 履修上の注意：

ソフトウェアの都合により、履修者は 10 人までとする（履修登録方法は別途通知）。

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number :

講義名[日本語(英語)] / Class Name : 政策研究特論 (エマージング・テクノロジーのもたらす社会変革と公共政策)

担当者(フルネーム) / Course instructor (Full Name): 道下 徳成、井手 達夫、外部講師/MICHISHITA Narushige, IDE Tatsuo, et, al.

学期・曜日・時限 / Term・Day・Period : 秋前期 Fall (Session I)/木 Thu/5

単位数/ Credits : 1

1. 本授業の概要及び到達目標 :

技術の飛躍的な進歩は、多くの情報の瞬時伝達を可能とし、ネット空間で異質なものがぶつかり合う中、多くのイノベーションを生みだしている。また、いたるところにゲームチェンジャーと呼ばれる社会を一新する技術の萌芽があり、これからも世界を変え続けていくと予想される。

本講義は、①そのようなエマージング・テクノロジーの概要と動向、②それらがどのような社会変革をもたらすのかについての見積もり、③それらに対応する公共政策のあり方について学ぶことを目的とするものである。内容は、それぞれの分野の専門家による講義を中心とするが、質疑応答とディスカッションの時間を十分確保することで、より理解を深められるよう配慮する。

講義形態はオンラインとする。

2. 各授業のテーマ :

標記については以下のとおりである。また授業外学修として、学生は受講前にあらかじめ提示される課題図書を読み、授業に参加するものとする。

第1講 導入 : コースの概要と日本のイノベーション環境について

政策研究大学院大学 客員研究員 井手達夫

東京科学大学大学院 環境・社会理工学院 イノベーション科学系 特定教授 八尋俊英

第2講 概要 : ゲームチェンジャー技術の動向と影響 (人工知能領域)

防衛研究所 小野圭司

第3講 概要 : ゲームチェンジャー技術の動向と影響 (IoT 領域)

一般社団法人サイバースマートシティ創造協議会 代表理事 豊崎禎久

第4講 概要 : エマージング・テクノロジーの動向と影響 (量子技術領域)

慶応義塾大学 環境情報学教授 Rodney Van Meter

第5講 各論：エマージング・テクノロジーの動向と影響（宇宙領域）

NATO 宇宙研究所関係者 ylvain Debarre 所長

第6講 各論：エマージング・テクノロジーの動向と影響（サイバー領域）

日立製作所 顧問 時藤和夫

第7講 各論：エマージング・テクノロジーの動向と影響（ロボティクス）

NATO サイバー防衛協力センター所長 Mart Noorma

第8講 総括：未来予測手法

政策研究大学院大学 客員研究員 井手達夫

3. 成績の評価方法：

成績は、リアクション・ペーパーと期末レポートで評価する。

◆リアクション・ペーパー（80%）

- ・各講義につき 400～600 字のリアクション・ペーパーを作成
- ・毎回、講義後の月曜日 2400 時までに提出
- ・内容は以下の通りとする。
 - ①講義や必読文献から学んだことのなかから自身が重要であると感じたポイント一点
 - ②重要であると感じた理由
 - ③それについての自身の所見
- ・リアクション・ペーパーは以下のメール・アドレスに提出すること。

◆期末レポート（20%）

- ・分量 1,000～1,500 字
- ・提出期限 12 月 8 日（日）
- ・講座全体あるいは重要な一部を踏まえつつ、以下の項目について論述する。
 - ①自身の活動の場（専門分野、職場、家庭など）においてどのようなエマージング・テクノロジーがどのような影響を与えるか
 - ②それに公共政策あるいは個人・社会がどのように対応していくべきか

・評価

成績の評価基準は以下のとおり。

A: 到達目標について高い水準で達成している

B: 到達目標について満足できる水準で達成している

C: 到達目標について概ね達成している

E: 到達目標について達成できていない

後日通知

可 Allow

7. 履修上の注意：

開講年度 (2024.4 月-2025.3 月) / Academic Year: (April 2024 - March 2025)

科目番号 / Course Number :

講義名[日本語(英語)] / Class Name : 政策研究特論(サイバーセキュリティ)

担当者 (フルネーム) / Course instructor (Full Name) : 宮本 大輔/MIYAMOTO Daisuke

学期・曜日・時限 / Term・Day・Period : 秋学期・Fall・水 Wed/2

単位数/ Credits : 2

1. 本授業の概要及び到達目標 :

サイバー脅威は、現代社会における重大な課題となっており、これに対する適切な対策が求められている。この講義では、サイバー脅威からの防御を目指すサイバーセキュリティと、脅威の影響を緩和し攻撃からの回復を図るレジリエンスの両観点からサイバー脅威へのアプローチを探究する。初めに、サイバー脅威に関する重要な技術、法律、国際標準などを説明し、サイバーキルチェーンという概念を導入し、サイバー攻撃の動作原理における戦術、手法、手順を学ぶ。さらに、サイバーセキュリティの有効な側面と、レジリエンスが必要とされる側面について解説する。

本授業を通じ、学生はサイバーセキュリティとサイバーレジリエンスについての全体像を得られ、攻撃と防御の戦略を学ぶ。また、今日のサイバー空間におけるステークホルダーを把握した上で、サイバーセキュリティを技術的側面・人的側面・組織的側面からの知見が得られる。

本授業の到達目標は以下の通りである。

1. 代表的なサイバー脅威について、基本的な動作の原理を理解する
2. サイバーセキュリティ技術の基本的な動作原理を理解し、サイバー脅威にどのように作用するか理解する。また、サイバーセキュリティ技術が有効に作用できない場合があることも理解する。
3. サイバーレジリエンスの観点をを用い、技術的・人的・組織的な要因によるサイバー脅威への対応策について理解する。
4. サイバーセキュリティが技術だけではなく、組織統制や文化形成について密接な連携が求められる理由について理解する。

本授業は、SDGs の目標 9(イノベーション),に関連する。また、本授業は、Public Finance Program の Diploma Policy 5、Maritime Safety and Security Policy Program (MSP) の Diploma Policy 5 に関連する。

2. 各授業のテーマ :

- 第1回 サイバーセキュリティの社会動向
- 第2回 ソーシャルエンジニアリング
- 第3回 マルウェア
- 第4回 リモートコード実行
- 第5回 サイバー攻撃演習 (予定)
- 第6回 サービス運用妨害
- 第7回 Web に対する攻撃
- 第8回 重要インフラに対する攻撃

第9回 リスク管理と ISMS 1

第10回 インシデント対応

第11回 サイバーセキュリティと社会

第12回 リスクシナリオ演習1：机上演習によるリスク管理・インシデント対応の理解

第13回 リスクシナリオ演習2：机上演習シナリオの設計と実施

第14回 サイバーセキュリティとレジリエンス1

第15回 サイバーセキュリティとレジリエンス2

3. 成績の評価方法：

1. 成績の評価方法

1) 評価項目（筆記試験、レポート、授業への貢献度等）の比重

最終評価レポート（70%程度）と中間レポート（30%程度）により行う。

2) 課題提出遅延時のペナルティの有無（有りの場合はその内容）

中間レポートの未提出者は、最終評価レポート 100%での評価を行う。

やむを得ない場合を除き、最終レポートについての遅延は原則として認めない。

3) その他、必要と思われる要件（任意）

特になし

2. 成績評価基準

A 90-100 合格 到達目標を高い水準で達成している

B 80-89 合格 到達目標を満足できる水準で達成している

C 70-79 合格 到達目標を概ね達成している

D 60-69 合格 到達目標を最低限の水準で達成している

E 0-59 不合格 到達目標を達成していない

4. テキスト、参考文献等：(4-1:必携のテキスト 4-2:その他)

4-1: 特になし

4-2: その他

Sidney Dekker, "Just Culture: Balancing Safety and Accountability", CRC Press, 2012.

World Economic Forum, "The Cyber Resilience Index: Advancing Organizational Cyber Resilience", 2022. (Available at:

https://www3.weforum.org/docs/WEF_Cyber_Resilience_Index_2022.pdf)

5. 講義で使用するソフトウェア（特にない場合は空欄でも可）：

6. 聴講の可否

可 Allow

7. 履修上の注意：

特に無し。

情報システムや通信プロトコル（特に TCP/IP）に関する基本的な知識は、本授業の理解に有益である。