

## Class Schedule for Spring, 2021

Course Title		Time & Date	Venue	Presenters	1.Class Name & 2.Code in Google Classroom
Orientation for New Students		16:00-19:00, April 10	Zoom	Self-introduction by Current and New Students	
Sustainability Research	1	14:30-16:00, April 10	Zoom	D2: Specially Appointed Students	
Advanced Practicum	2	10:00-14:00 July 17	Zoom	D1: Oct-2020 & Apr- 2021 Students	
Foundations of Sustainability Research A	1	9:00-16:00 April 17	Zoom	None	
	2	9:00-16:00 May 8	Zoom	None	
	3	9:00-16:00 May 22	Zoom	None	
	4	9:00-16:00 June 5	Zoom	None	
	5	9:00-16:00 June 26	Zoom	None	
	6	9:00-16:00 July 3	Zoom	D2: Oct-2019 & Apr-2020 Students	
Workshops / Interdisciplinary Seminars	1	16:10-17:40 May 22	Zoom	Applicants those who would like to give a presentation 1.Consult with your supervisors 2.Email Ms. Murai no later than two weeks before the desired workshop day	
	2	16:10-17:40 June 5	Zoom		
	3	16:10-17:40 June 26	Zoom		

Course Title	Provided by		Time & Date	Venue	1.Class Name & 2.Code in Google Classroom
Academic Literacy / Interdisciplinary Seminars	TUFS	1	17:40-19:10 Tue <b>April 13</b>	Zoom	
		2	17:40-19:10 Tue <b>April 27</b>		
		3	17:40-19:10 Tue <b>May 18</b>		
		4	17:40-19:10 Tue <b>June 8</b>		
		5	17:40-19:10 Tue <b>June 22</b>		
		6	17:40-19:10 Tue <b>July 6</b>		
	TUAT	1	17:40-19:10 Tur <b>June 3</b>	Zoom	
		2	17:40-19:10 Tur <b>June 10</b>		
		3	17:40-19:10 Tur <b>June 17</b>		
		4	17:40-19:10 Tur <b>June 24</b>		
		5	17:40-19:10 Tur <b>July 1</b>		
		6	17:40-19:10 Tur <b>July 8</b>		
	UEC	1	18:00-19:30 Wed <b>June 16</b>	Zoom	
		2	18:00-19:30 Wed <b>June 23</b>		
		3	18:00-19:30 Wed <b>June 30</b>		
		4	18:00-19:30 Wed <b>July 7</b>		
		5	18:00-19:30 Wed <b>July 14</b>		
		6	18:00-19:30 Wed <b>July 21</b>		

Note 1: **Foundations of Sustainability Research A** is mandatory only for Oct- 2020 and Apr-2021 students. But all students are always welcome to join, if they like.

Note 2: **Sustainability Research Advanced Practicum I, II, III and IV** for 2021-April, 2020-October, 2020-April, and 2019-October entrant, respectively are mandatory.

Note 3: **Interdisciplinary Seminars** consist of the three parts noted below: For more details, please see P22.

1) Tutorial under triplet research supervision scheme

2) Workshop

3) Academic Literacy provided by every three University so that students can acquire the basic skills and practical knowledge required succeed at the university level.

Note 4: **Academic Literacy** is mainly for the first year students, but all students are also welcome if they like.

## **Course Description**

### ■ **Foundations of Sustainability Research A**

The lectures aim to enable students to comprehensively and systematically acquire the basic knowledge needed in the Joint Doctoral Program for Sustainability Research. In particular, the lectures are aimed at cultivating a sense that serves as the foundation of ethical and pluralistic ways of thinking called for in international settings. The students learn about SDGs, global issues, and intellectual properties.

### ■ **Foundations of Sustainability Research B**

The course aims to enable students to practically and cooperatively acquire skills in communicating (writing) and applying basic theories and analysis method, which are necessary in articulating ethical and pluralistic ways of thinking called for in international settings and are needed in the Joint Program. In particular, the course trains students to master and practice effective English writhing techniques and basic theories and analysis methods, which can be used in formulating and implementing internationally acceptable international development strategies and plans.

# Lecture Schedule-Foundations of Sustainability Research A

1. 4/17 Foundations of Sustainability Research A(1)
  - 09:00-12:00 Takeuchi Shinichi (TUFS): Context and Backgrounds of SDGs
  - 13:00-16:00 Chitose Atsushi (TUAT): Targets and Examples of Sustainability Research
2. 5/8 Foundations of Sustainability Research A(2)
  - 09:00-12:00 Chitose Atsushi and Nomura Yoshihiro (TUAT): Human Development, Food, Resources and Energy
  - 13:00-16:00 Nakayama Chikako (TUFS): Economy and Ecology: Theories of Endogenous Development
3. 5/22 Foundations of Sustainability Research A(3)
  - 09:00-12:00 Demachi Kazue (TUFS): Analyzing the Relationships between Natural Resources and Society
  - 13:00-16:00 Kawabata Yoshiko (TUAT): Water Resources in Drylands
4. 6/5 Foundations of Sustainability Research A(4)
  - 09:00-12:00 Eto Manabu (Hitotsubashi Univ.): Standardization and Intellectual Property Rights
  - 13:00-16:00 Yamamoto Kayoko (UEC): Environmental Problems and Disaster Resilience
5. 6/26 Foundations of Sustainability Research A (5)
  - 09:00-12:00 Nakamura Keiko (TMDU) Public Health and Planetary Health
  - 13:00-16:00 Group Discussion– What is Sustainability Research?
6. 7/3 Foundations of Sustainability Research A (6)
  - 09:00-16:00 Student Presentations (2019-Oct and 2020-Apr (D2) Entrants)

## ■ Interdisciplinary Seminar I & II

Students attend tutorial under a triplet research supervision scheme: one academic principal supervisor and two supervisors. The course is aimed at enhancing core competency in the doctoral dissertation research field and at enabling students to explain the purpose and significance of their research in relation to current research trend, through discussions with the academic principal supervisor. In addition, the course trains students in each aspect of research, namely, comprehension, analysis, and implementation, which require a higher level of competency, through discussions with supervisors. The course helps students acquire consensus-building skills and the capacity to adapt to diverse value systems and environments, while leveraging new ideas, knowledge, and information obtained through meaningful academic exchanges with researchers not only in their specialized fields but also from other disciplines, into the design of their doctoral dissertation research.

Interdisciplinary seminars consist of the three parts noted below:

### ©Tutorial under Triplet Research Supervision Scheme

Students take seminars tutorially by academic principal supervisor. While holding regular seminars with an academic principal supervisor, students attend seminars provided by supervisor or laboratory work.

### ©Workshop

The workshop is held after lecture of Foundations of Sustainability Research. Students report and hold Q&A on their doctoral dissertation research concepts. They are held in intensive sessions on May 22, June 5 and June 19. Students will make a decision to give a presentation after consulting with academic principal supervisor.

### ©Academic Literacy provided by three Universities

The lecture trains students that enable to acquire the basic skills and practical knowledge required at the university level. Please consult with your academic principal supervisor.

## ¶Academic Literacy Seminar provided by TUFSS

Venue : Zoom  
Subject : English Discussion Training Class  
Instructor : SUZUKI, Steven Taro

### Summary and goals of the course :

The course is designed to improve presentation skills in academic and professional contexts. In order to achieve this goal, higher-level intellectual skills will be developed and improved through engaging in, and performing various tasks and discussions. A natural by-product will be students improving their analytical, rhetorical, and critical thinking skills. These skills are abstract and difficult to measure; however, they are important in terms of being able to collaborate and cooperate effectively with colleagues, superiors, subordinates, and clients in future professions.

### Overview of the course :

Students will focus on learning important skills for presenting at professional conferences, and also how to adroitly handle Q&A sessions. A short presentation will be conducted by each student in every class. The presentations will start on a basic level, and will increase in analytical and rhetorical difficulty as the course progresses. The course will conclude with a basic full length presentation with a Q & A session performed by each student.

### Schedule : (17:40-19:10)

- 1) Tuesday, April 13 Discussion Skill Training in English 1
- 2) Tuesday, April 27 Discussion Skill Training in English 2
- 3) Tuesday, May 18 Discussion Skill Training in English 3
- 4) Tuesday, June 8 Discussion Skill Training in English 4
- 5) Tuesday, June 22 Discussion Skill Training in English 5
- 6) Tuesday, July 6 Discussion Skill Training in English 6

## **TUFS English Learning Center (ELS)**

All JDPSR students are eligible for participating programs offered by TUFS English Learning Center (ELC) to enhance their autonomous English learning. ELC provides four programs: speaking, writing, e-Learning, and English library. To join the speaking and writing session, it needs to make a reservation at the center. For more details, please refer to the link below with which they can learn how to use the center.

English Learning Center (ELC):

Room 304, Research and Lecture Building, TUFSS

Phone: 042-330-5416

E-mail: [tufs-elc@tufs.ac.jp](mailto:tufs-elc@tufs.ac.jp)

Website: <https://mdle.tufs.ac.jp/elc/public/students/>

## ¶Academic Literacy Seminar provided by TUAT

Google Classroom: Class code 4mtvdfp

Subject : Basic Statistics

Instructor : CHITOSE, Atsushi

Summary and goals of the course :

The objectives of this course are i) to acquire basic skills of statistical analysis and correct knowledge in dealing with statistics; and ii) to know how to perform basic statistical tests and interpret their results using the Excel worksheets.

Overview of the course :

This course will be provided online on Thursday evening in June and July. In each class, students will be given the instruction regarding a special topic by the instructor, followed by the practice for statistical analysis using “Function” and/or “Analysis ToolPak” of Excel.

Note : Please prepare your own PC, in which Microsoft Excel has been installed.

Schedule : (17:40-19:10)

- 1) Thursday, June 3 Descriptive Statistics 1) Univariate case
- 2) Thursday, June 10 Descriptive Statistics 2) Bivariate case
- 3) Thursday, June 17 Inferential Statistics 1) Statistical distribution, t-test
- 4) Thursday, June 24 Inferential Statistics 2) Hypothesis testing (t-test, F-test)
- 5) Thursday, July 1 Inferential Statistics 3) Hypothesis testing among groups (ANOVA)
- 6) Thursday, July 8 Inferential Statistics 4) Regression Analysis (OLS)

## ¶Academic Literacy Seminar provided by UEC

### 1. Subject: AI (Artificial Intelligence)

Venue : Zoom

Overview of the course: Introduction and some practice in Machine Learning and Artificial Intelligence

Text: TBA

Schedule : (18:00-19:30)

- 1) Wednesday, June 16
- 2) Wednesday, June 23
- 3) Wednesday, June 30

Note : Bring your own PC when switching to face-to-face classes

Contact :

Prof. Hashiyama

E-mail: hashiyama.tomonori@uec.ac.jp

## **2. Subject : GIS (Geographic Information Systems)**

Venue : Zoom

Overview of the course : Learn the basic techniques of GIS referring textbook edited by the GIS Association of Japan. (<http://www.kokon.co.jp/book/b313385.html>)

Schedule : (18:00-19:30)

- 1) Wednesday, July 7
- 2) Wednesday, July 14
- 3) Wednesday, July 21

Note : Bring your own PC when switching to face-to-face classes

Contact :

Prof. Yamamoto

Phone: 042-443-5728

E-mail: [Kayoko.yamamoto@uec.ac.jp](mailto:Kayoko.yamamoto@uec.ac.jp)

### **■ Interdisciplinary Seminar III**

Students report internship outcomes with attendance of an academic principal supervisor and supervisors. It should be done during the semester, between Advanced Practicum III(1) and III(2). Also, students attend laboratory works with an academic principal supervisor and supervisors as needed during the semester.

### **■ Interdisciplinary Seminar IV**

Students attend tutorial seminars provided by academic principal supervisor and supervisors for preparing a presentation at an international conference and publication of their drafts to an international scholarly journal.

### **■ Interdisciplinary Seminar V**

Students attend tutorial seminars on vision and structure of their drafts of dissertations.

### **■ Interdisciplinary Seminar VI**

Students attend tutorial seminars on their dissertations.



## ■ Sustainability Research Advanced Practicum I-IV

Sustainability Research Advanced Practicum is organized by all the professors of the course as an occasion to discuss the participants' research outcomes intensively and interdisciplinary. Sessions are held in April and July during the 1st semester, and in October and January during the 2nd semester. The 1st and 2nd year students are obligated to attend all sessions.