

# Global Leader Program for Social Design and Management

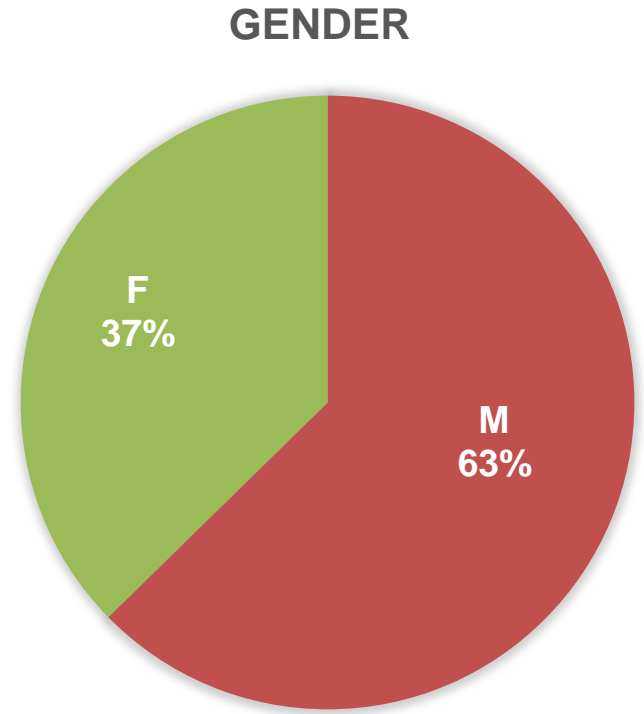
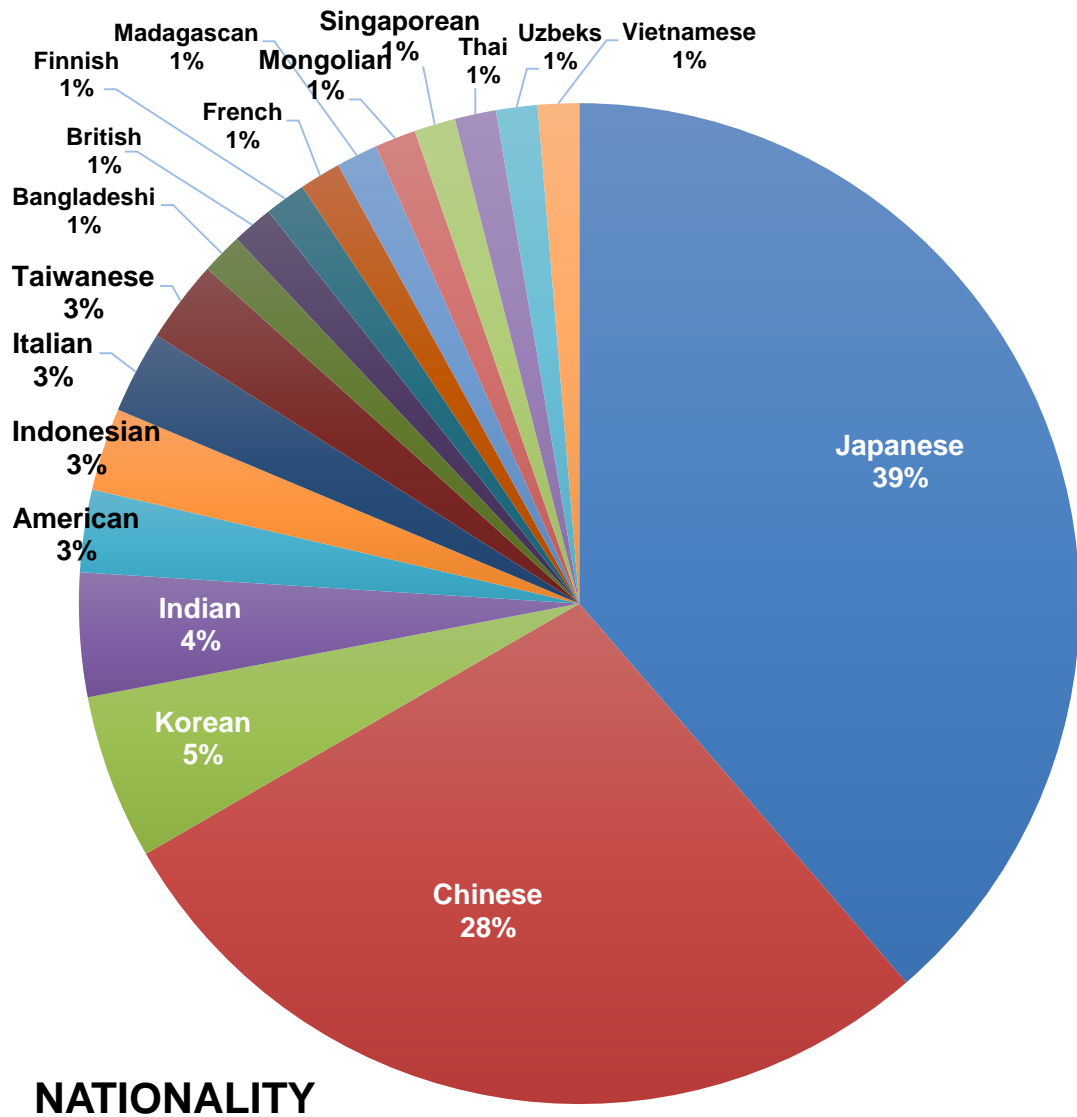
## Program Guidance

October 4, 2019

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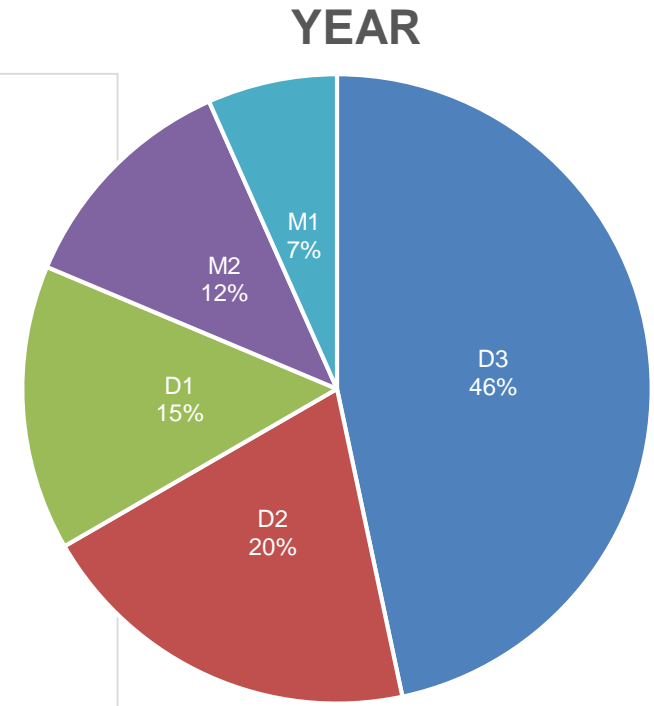
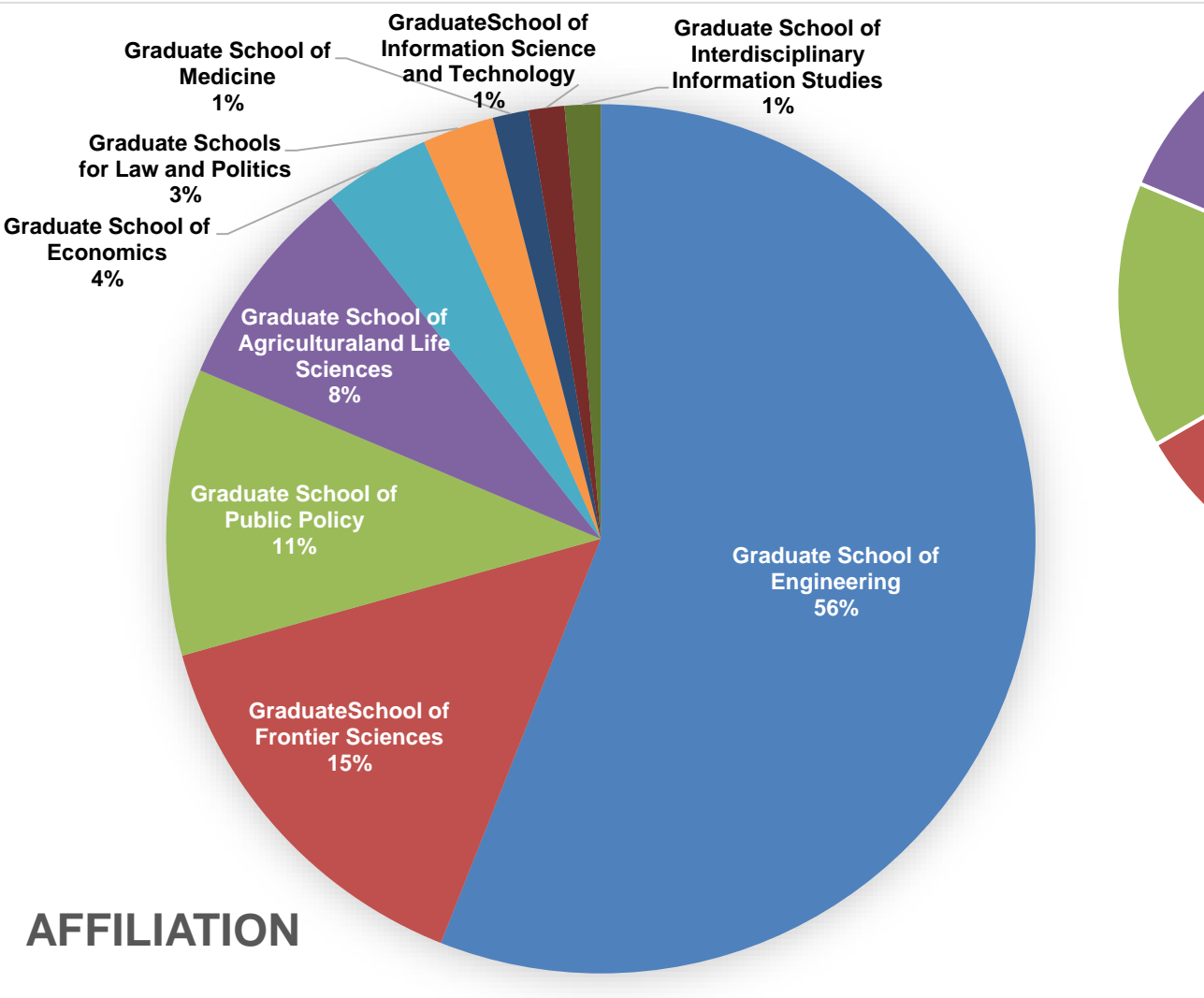


# 75 GSDM Students as of today

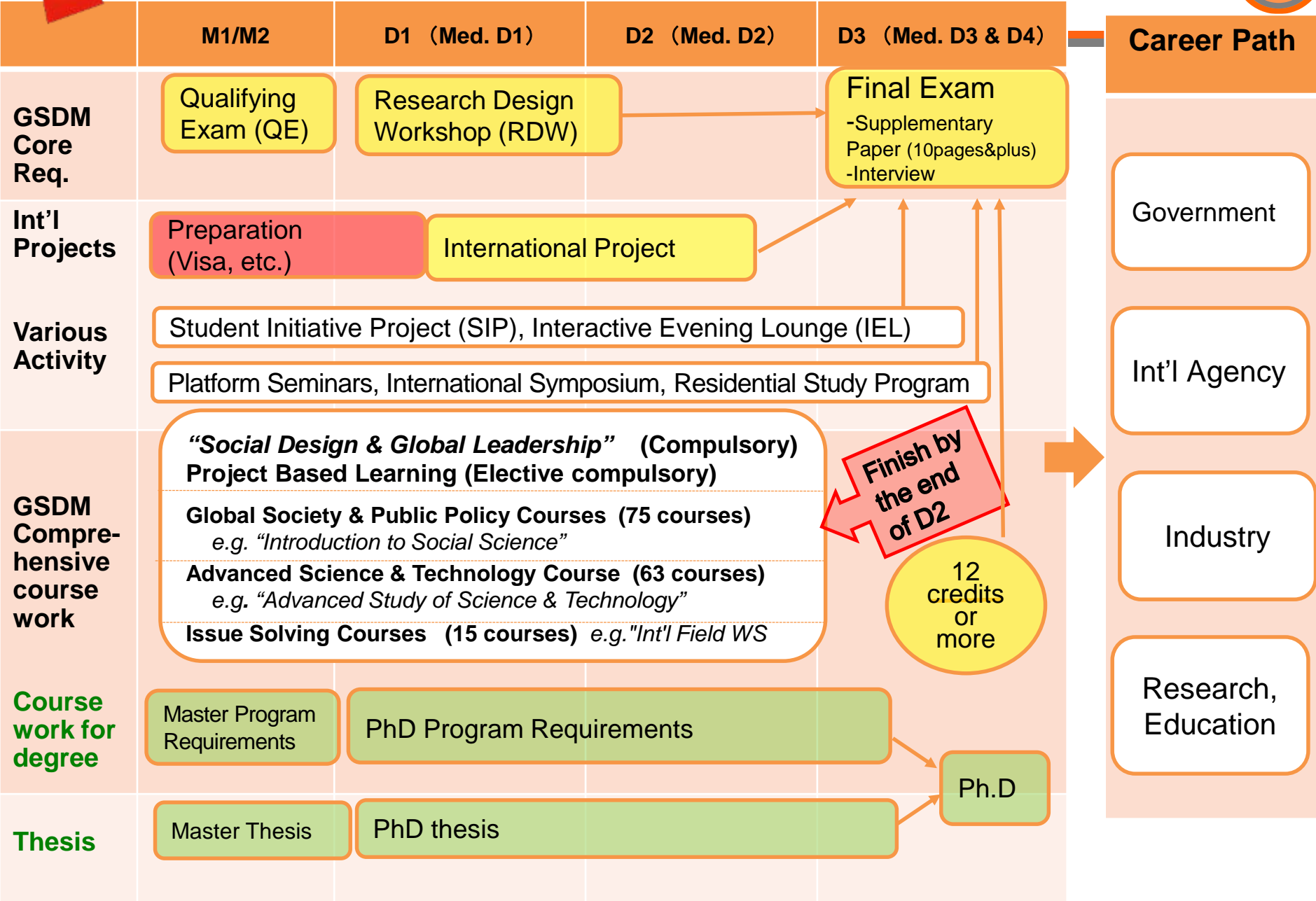




# 75 GSDM Students as of today



# GSDM Curriculum Map





Comprehensive coursework is designed to help students build a sound knowledge base that bridges multiple areas of expertise. The coursework consists of one compulsory course and courses from the following three core areas.

- Compulsory course 'Social Design and Global Leadership'
- Global society and public policy courses (75 courses)
- Advanced science and technology courses (63)
- Issue solving courses (15)



# Program Completion Requirements

- (1) Pass Required Course : **Social Design and Global Leadership** (2credits, English)
- (2) Pass Compulsory Electives ① : **Either “Engineering Competency I -Project Based Learning-” or “Project Based Learning on the Technological Innovation and the Social Solutions”** (2 credits)  
*\*(1) Required Course and (2) Compulsory Electives① must be taken within two years after starting the program.*
- (3) Pass Compulsory Electives ②: Elect the classes from the following three core courses (8 credits)  
Out of these 8 credits, at least 4 credits must be taken from English-taught courses.
  - 2 credits or more** from Advanced Science Technologies Core Course
  - 2 credits or more** from Global Society & Public Policy Core Course
  - 2 credits or more** from Issue Solving Core Course (excl. two credits in PBL above in (2))*\*Total number of credits required by the GSDM will be 12.*  
*\*All the required credits above (1), (2), (3) must be earned by the end of your D2 Completion timing.*
- (4) Pass **Qualifying Examination (QE)** if you are in Master’s program.
- (5) Pass **Research Design Workshop (RDW)** when you are in the Doctoral program.
- (6) Pass **International Project** (It has to be completed before the final exam.)  
*\*The necessary fund for the International Project has to be procured by the students from the 2020 academic year. The possible source of fund may include the budget of applicant’s own laboratory, scholarships for study abroad, etc.*



**Final Exam**  
**(10-page Supplementary Paper, Interview, etc.)**

\*Please note that these completion requirements are as of April 2019 and there is a possibility to change in the future.



# Social Design and Global Leadership

## 【Compulsory Course】

### ■ Goal

- Acquire skills to identify social issues and design solutions, primarily in the form of problem definition, while taking an active role as a global leader
- Development of the students' ability to perform group work
- Acquisition and development of leadership capabilities

### ■ Learning Process

- One lecture, followed by group work
- Intensive discussions about cases

### ■ Case study on:

- International space collaboration, Energy security  
International public health, International economic management

### ■ Learning Outcomes

- Problem definition skills
- Refined presentation skills
- Proficient communication skills





# Social Design and Global Leadership

## 【Compulsory Course】

- Compulsory course focusing on problem definition based on interdisciplinary discussion and discussion with stakeholders
- Expected Outputs: PPT slides+ self assessment
- Schedule of AY2019

April 20 9:00-17:00	I	Introduction	Prof. Shiroyama
	II	Basic concepts and methods for social design and management and Medical Innovation	Prof. Suzuki
	III	International space collaboration	Prof. Nakasuka
May 12 9:00-17:00	I	Energy Security	Prof. Tanaka
	II	International economic management	Prof. Kawai
June 1 9:00-13:15	I	International public health	Prof. Nomura
	II	Group formation for final presentation	
July 6 9:00-13:30		Presentation by groups and comments	
July 26 13:00-16:30		Lecture on Leadership	Prof. Aoki





- Elective compulsory from AY2016
- Students are encouraged to experience specific projects based on the demands from practitioners
- Students should develop the ability to formulate and evaluate options for problem-solving ⇔ problem definition (SDGL)
- Expected Outputs: 10 pages paper+ PPT slides+ self assessment
- **Schedule of AY2019 (A1&A2)**

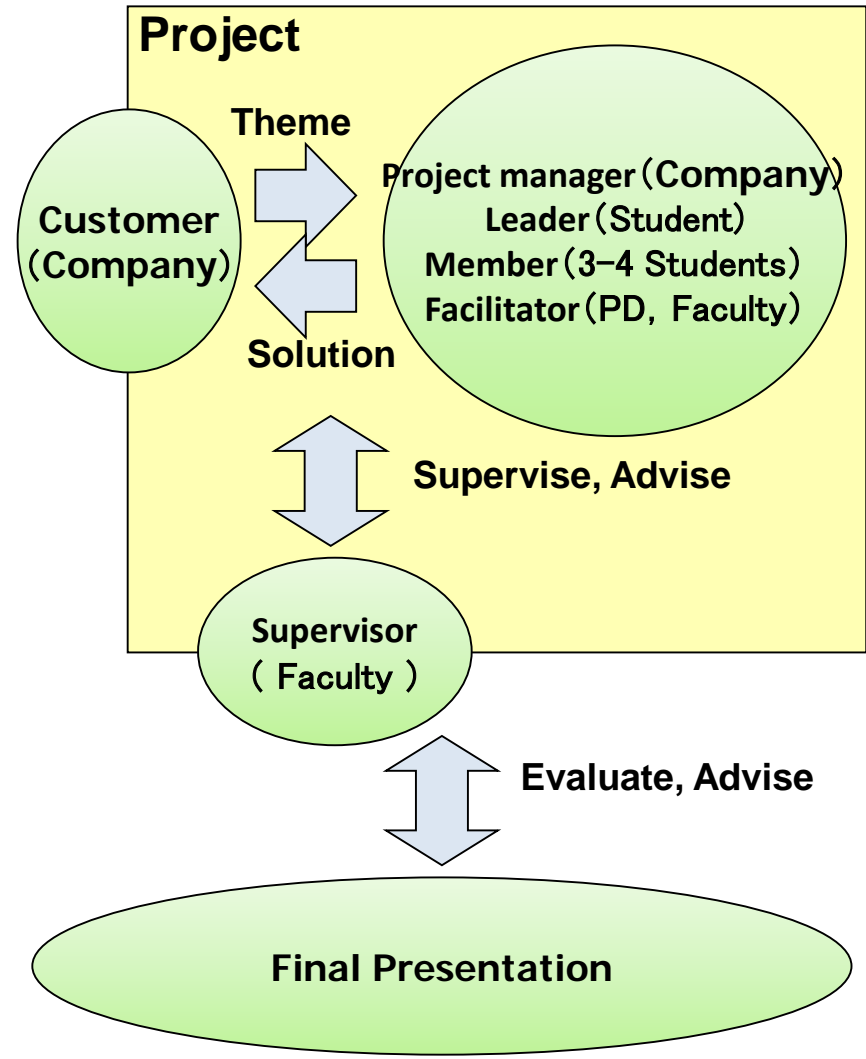
1 <sup>st</sup> day	October 27, 9:00-13:00	Introduction : Prof.Shiroyama Lecture/Ms.Yamamoto (Disaster recovery assistance, NPO)
2 <sup>nd</sup> day	November 3, 9:30-17:30	Lecture/Mr.Takeuchi (Social Welfare, ex-MHLW official) Mr.Fukunaga (Trade & Investment rules, METI official)
3 <sup>rd</sup> day	November 4, 9:30-17:30	Lecture/Prof.K.E.Seetharam (Infrastructure development in Asia, ADBI), Mr.Mitani (Innovation & Bio startup, ex-CEO of Pharmaceutical company)
4 <sup>th</sup> day	December 22, 9:00-15:00	Interim report by groups
5 <sup>th</sup> day	January 26, 13:00-18:00	Final presentation and comments by practitioners.



# Engineering Competency I

## (Project Based Learning) [Elective Compulsory]

- Business solution
  - Real-life problems from company
  - not only idea but product and/or verification
  - 4-month group work
- Team
  - Students from different lab, department, and nationality
  - Company member
- Students learn
  - How to communicate with professionals of another field
  - Project management
  - How to correlate (their) top-level R&D with concrete, feasible, realistic solutions





# Engineering Competency I

## (Project Based Learning) [Elective Compulsory]

**You have to attend the following sessions and also arrange meetings by yourselves.**

- **Beginning of October: Guidance, Team member selection**
- **Mid-October: 1<sup>st</sup> presentation (6 min + Q&A)**
- **Mid-December: mid-term presentation (6 min + Q&A)**
- **Beginning of February: final Presentation (12 min + Q&A)**



▲ Final Presentation

- Call will be announced on the GSMI (<http://gmsi.t.u-tokyo.ac.jp/>) and GSDM (<http://gsdm.u-tokyo.ac.jp/>) websites in September, 2020



# Introduction to Social Science

## 【Global Society & Public Policy Course】

This course offers an introduction to how social science works, defined from an epistemological and methodological standpoint, by discussing the meaning of “science” with reference to the extremely complex domain of human societies. By making extensive use of intuitive examples, it also illustrates some elementary notions of how social science is then channelled in decision making, especially for public policy purposes.

### ■ Keywords

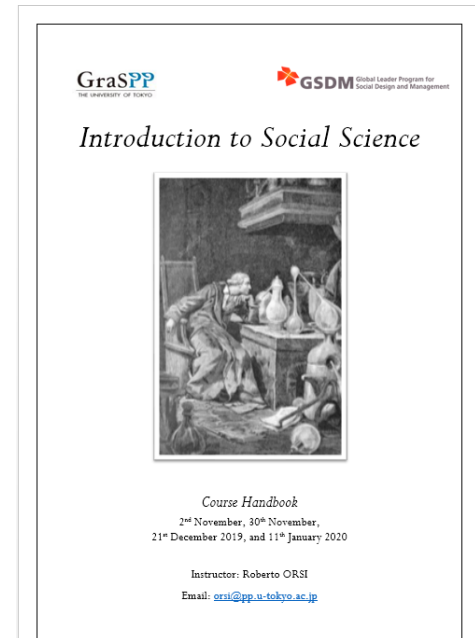
- Research Methods; Process, Social Design.

### ■ Lectures (11/2; 11/30; 12/21; 2020/1/11, all Saturdays)

- 1: Introduction to the Course
- 2: Science, Epistemology and Methodology
- 3: Methodology of Social Sciences
- 4: Social Science Research and Its Stages
- 5: Quantitative Methods: Presentation of the Methods
- 6: Quantitative Methods: Cost-Benefit Analysis
- 7: Qualitative Methods: Overview of the Qualitative Methods
- 8: Qualitative Methods: Discussing an Academic Paper
- 9: Causality
- 10: Case Study
- 11: Ethics of Social Science Research
- 12: Objectivity and Emancipation in Social Science
- 13: Wrap-up Lecture

### ■ Outputs

- Research design presentations through working groups
- Deeper understanding of social science methodological possibilities and their applications



**Ideal for those who know little or nothing about social science but want to know more!**

## <Lectures of AY2019>

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Day 1	10:25–12:10	Comparative health system
Saturday	13:00–14:45	Robot assisted Surgical Systems (1)
5 October	15:55–16:40	Robot assisted Surgical Systems (2)
	16:50–18:35	Three-dimensional fusion image for simulation of Neurosurgery
Day 2	10:25–12:10	System safety: resilience
Saturday	13:00–14:45	Technology transfer and boundary of organization
12 October	15:55–16:40	Technology maps for industry analysis
	16:50–18:35	Carbon nanotubes and nanotechnology
Day 3	10:25–12:10	Technology management strategy of Japanese high-tech companies
Saturday	13:00–14:45	Paris agreement and green growth
19 October	15:55–16:40	Advanced science in preventing non-communicable diseases (NCDs)
	16:50–18:35	Final examination
Optional	Site Visit to the UTokyo hospital	

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In AY 2018, 26 students completed this course.

### Students' evaluation:

- It was a very good opportunity to know about other fields, such as medical nano-device and surgeon assist system.
- It was amazing to see how many researchers from different background and disciplines can bring in such a variety of new and innovative perspective.



# Site Visit to the UTokyo Hospital, 2018



# International Field Workshop (IFW)

**February 9-16, 2020 in the US | August 2020 in Asia**

- Help students to identify today's societal challenges from global perspectives and to learn how to design solutions
- Active involvement required from the planning stage to lead discussion with professionals on issues of your interest
- Networking with professionals to develop your future career



**Please come to Information Session in October**

**Date & venue: TBA**



Those who want to register for this course should submit a proposal and have to pass selection process.



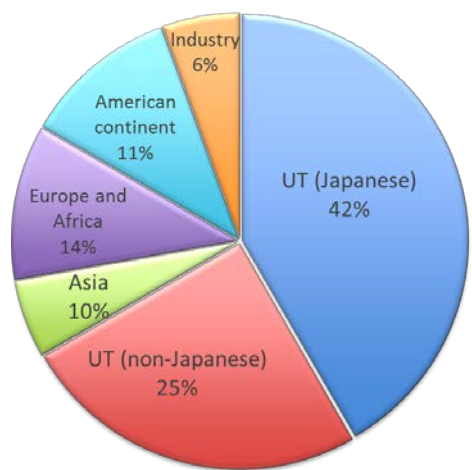


# Engineering Competency III (Summer Camp)

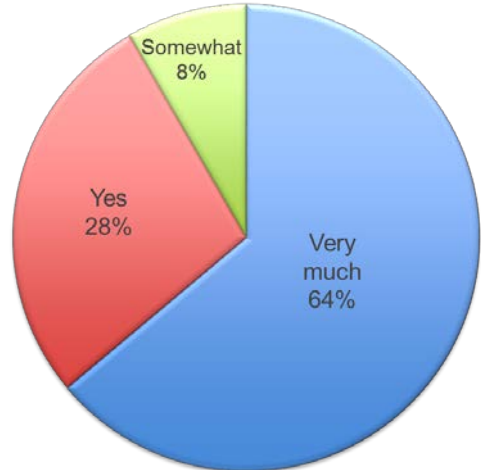
- UTokyo and world-leading universities Ph.D students discuss and exchange ideas to propose an international research project to develop an innovative device related to SDGs
- 38 Participants from 11 universities of 7 countries & 3 companies



2019 Venue: UTokyo and Shonan Village Center

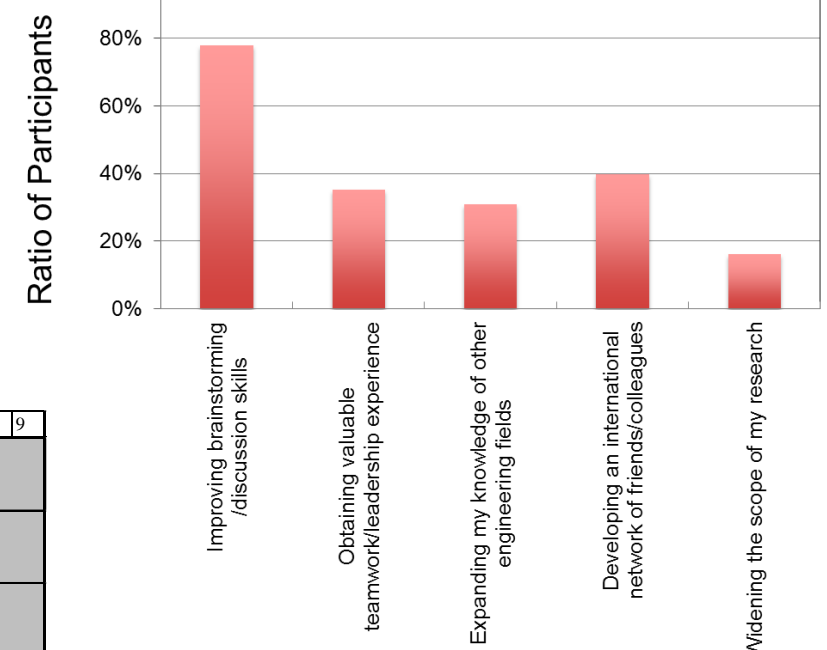


▲ Participants



▲ Satisfaction

2019 Venue: UTokyo and Shonan Village Center



▲ Which areas beneficial

	7 am	8	9	10	11	12	1 pm	2	3	4	5	6	7	8	9
Fri. Aug 2			Reg.	Opening/ Lectures	Lunch	UTokyo lab tour		Travel to Camp	Checkin	Self-introduction	Dinner				
Sat. Aug 3	Breakfast		Research Presentation	Team Meeting	Lunch	Excursion				Dinner					
Sun. Aug 4	Breakfast		Team Meeting		Lunch	Team Meeting				Dinner (Banquet)					
Mon. Aug 5	Breakfast	Checkout	Final Presentation	Photo	Lunch	Award Ceremony & Closing		Return to Tokyo							

◀ Schedule of Summer Camp



# Engineering Competency III (Summer Camp)

## Team meetings and presentation

Your task is to propose **an international research project with your team members to develop an innovative device related to SDGs** (Sustainable Development Goals). The Sustainable Development Goals (SDGs) are a collection of 17 global goals set by the United Nations General Assembly in 2015 for the year 2030.





# Engineering Competency III (Summer Camp)

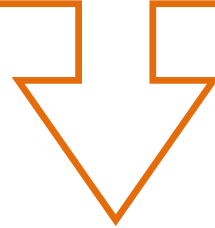
- 2020 Summer Camp:  
End of July ~ Early August 2020  
The University of Tokyo & TBD
  
- Call will be announced on the GSDM  
(<http://gsdm.u-tokyo.ac.jp/>) and on the GSMI  
(<http://gmsi.t.u-tokyo.ac.jp/>) websites



- ❖ IEL has been established to enhance
  - Socialization
  - Information exchange concerning relevant matters from technical and research questions
  - Practical lessons from practitioners' career experiences
  
- ❖ Platform for students to develop a sense of belonging to a community within the GSDM framework, because students belong to different departments/schools
  
- ❖ It is an opportunity open to all members of GSDM, both students and faculty members, to gather in a relaxed, and informal atmosphere.



- ❖ Report by students returning from International Projects
- ❖ Presentation of Student Initiative Project (SIP)
- ❖ Book Club
- ❖ Career pass by GSDM graduates
- ❖ Presentation by external lecturers, etc.



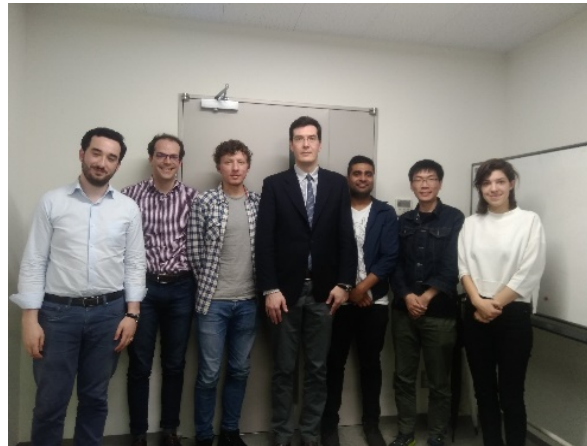
In AY2018, a total of 14 IELs has been held



Date	Title
22 Apr.	Book Club (The Old Capital/Yasunari Kawabata)
25 Apr.	How to get JSPS ? Real experiences
23 May.	Book Club (The Chrysanthemum and the Sword/Ruth Benedict)
13 Jun.	Visiting the Japanese Diet
24 Jun.	Book Club (In Praise of Shadows/Junichiro Tanizaki)
30 Jul.	International Project, a pathway for global leader
2 Aug.	Learning from Career Path of GSDM Alumni



### Book Club



### International project reporting



### Repsol seminar



### International project, a path way for a global leader

### Discussion about climate change

### GSDM International Symposium





- ❖ IEL is a very important curriculum of GSDM program
- ❖ Attendance of IEL will be considered in QE, RDW and Final Exam

The information of IEL will be announced at Facebook and Slack



Please contact us if you have any ideas / questions!

[gsdm-iel@pp.u-tokyo.ac.jp](mailto:gsdm-iel@pp.u-tokyo.ac.jp)





# Student Initiative Project (SIP)

1. Students coordinate a project aimed at solving some global/social issue
2. Each SIP lasts from six months to one year
3. The project should produce deliverables that **practically** address the issues in the form of a policy report, a business plan, a prototype, etc (but not a paper in a scientific journal!)
4. Students are responsible for the planning and the execution of the project
5. In executing an SIP, each student is expected to go beyond his/her own disciplinary expertise



# Team Formation

Leader(s): One or a few will give an idea/proposal

Members: who agree with the idea will become members and cooperate



External practitioners

Faculty members

Feedback/support



Advice/administrative support





- ★ Students are strongly recommended to participate in SIP during GSDM years.

At least once as a leader

At least once as a member

- ★ Participation to SIP will be considered when QE/RDW and Final Exam!



SIP groups have several opportunities to obtain advice from GSDM faculty members and external practitioners.

- March : Preparation process starts**
- Mid April : Submission of proposal**
- Mid-May: Proposal Review Meeting**
- Mid Oct. : Proposal/Midterm Review Meeting**
- Late Feb. 2020: Year-end Report Meeting**
- Mar. 2020: Report at the Spring Camp**
- End Mar. 2020: Submission of final report**



- Fifth season of SIP started in April
- September 27 : Tentative Proposal deadline
- October 4 : Member Recruitment Meeting
- Mid October: submission of Revised Proposal
- October 28 : Proposal Review Meeting
- Early November: Final Proposal
- Mid November : Examination at the Steering Committee
  - ➔ **launch project**



## ■ Seven projects are in progress



1. AgriDronevation: Phase II



2. High Seas and Big Data: Using Information to Sustain the Blue Economy



3. Geopolitical analyzation of energy connectivity between South Asia and Southeast Asia in the case of Myanmar



4. GLEG (global Leader X Ethics X Games) Online - - - Convenient online learning tool for primary stages of ethical education



5. Identifying the root cause of gender disparity in UTokyo



6. Mitigation of Plastic Pollution in Japan using Twitter



7. Space Development in ASEAN: History and Way Forward – Part 2

## ■ One new project



1. Conbini Fit



Please contact us if you have any questions

[gsdm-sip@pp.u-tokyo.ac.jp](mailto:gsdm-sip@pp.u-tokyo.ac.jp)

Dr Kevin Montagne, project lecturer, Graduate School of Engineering

Dr Jung Su Lee, project associate professor, Graduate School of Medicine



Bridge between the acquired knowledge/expertise and the real world. You will gain **practical experiences in solving issues.**

- One of the requirements to complete the program
- International joint research or international internship
- Could be done in Japan
- GSDM students who have passed QE are eligible.
- 1.5 to 6 months.
- The current financial assistance will be terminated at the end of March 2020. The necessary funds for the International Project must be procured by the students starting from the 2020 academic year.
- Submit the application materials **at least two months prior** to the start of the project.
- Your progress in course completion and participation to various GSDM activities are also evaluated at the International Project interview.



It **takes time** to prepare for the International Project. Get started at least 6 months in advance.



\*Check the GSDM WEB site or contact GSDM office for details.





## Abilities acquired through the International Project

- Excellent communication skills
- Self-motivated mind to learn and intense curiosity
- Project management ability to implement solutions
- Highly educated and ethical mind
- Deep understanding on social issues

(From the survey of 38 GSDM graduates)

## Advice from the students who finished IP

- Plan your IP in advance and assign top priority to time allocation when handling ambitious projects.
- You are advised to do the International Project in the first year of PhD instead of the final year, as it is possible to allocate more time for the International Project at an earlier stage, rather than later on.
- Keep an eye open for networking, which is of critical importance for your career.
- It is very important to be flexible with regard to the working culture of the host institution of your IP environment.

(From the final reports of International Projects)



- Who has to take it?

All master candidate students

- When?

One year after the enrollment to GSDM (students who enrolled in M1)

At the end of M2 (students who enrolled in M2)

- Purpose

To verify the intension of going to the doctoral thesis and the preparation to become the kind of human resource expected by GSDM



# What will be evaluated in QE?

- Essay on your research plans and solving social issues.
- Essay on your participation in the GSDM program so far and the capabilities you have developed through the program.
- Status of the Comprehensive Coursework credits acquisition
  - Two credits from each of the three course categories (for a total of 6 credits) must be acquired before QE.
  - ‘Social Design and Global Leadership’ can be substituted for the 2 credits of Issue Solving Courses
- Individual presentation
- Group Work



- Who has to take it?

All doctor candidate students

- When?

One year after the enrollment to GSDM (students who enrolled in D1)

At the end of D1 (students who enrolled in M1& M2)

- Purpose

To verify the prospects of completing the doctoral thesis and the preparation to become the kind of human resource expected by GSDM



## ■ Report

1. How to identify the links between your research and social issues, possibly leading to a practical solution, with a view to your future Supplementary Paper.
2. Extended abstract of doctoral dissertation research
3. Review of the participation in GSDM program

## ■ Presentation (7 min + 13 min of Q&A)

- 1) How your research can contribute to the solution of social problems

\* This does not exclusively refer to the exposition and description of a concept, but the project/presentation must contain concrete ideas for its implementation in the real world, including financial and legal aspects, social and political consequences.

- 2) Your doctoral research project and its progress
- 3) What kind of ability you have acquired through the GSDM program

## ■ Evaluation

- 1) social issues, 2) research, and 3) GSDM activities are equally evaluated.



# What to do to prepare for QE and RDW?

- You must take various Comprehensive Coursework courses.  
However, just taking courses to satisfy the completion requirements will not be enough.
- You should actively participate in GSDM Platform Seminars, GSDM Interactive Evening Lounge (IEL), Students Initiative Projects (SIP) and other events.
- You need to consider the relation between your research and outstanding social issues.
- Attend the dedicated pre-QE and pre-RDW meetings.



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## Curriculum

JAPANESE

### Secondary Advisor Program

The secondary advisor program was introduced with the aim of developing doctorate holders with a wide range of specializations. This program provides GSDM program students with opportunities to receive advice from secondary advisors in addition to their main supervisor.

#### Eligibility

- All GSDM program students enrolled in **the doctoral program** are eligible to receive advice from secondary advisors in addition to their main supervisor.

#### Credits

- No credits are awarded for participation in the program. Students are required to submit reports on their meetings with their secondary advisors.

#### Content

- Students receive advice concerning **the preparation of Supplementary Paper**. This paper should propose solutions to a social problem (assessing practical applications for technology, developing public policy, or dealing with ethical issues) by building on the content of the Vision section of the Research Design Workshop document. The content to be discussed at meetings with secondary advisors will be determined by agreement between program students and their secondary advisors. Examples of the advisory relationship include the following:

Message +

News +

About GSDM +

Curriculum +

Comprehensive Coursework >

Qualifying Examination (QE) >

Research Design Workshop >

International Project >

Secondary Advisor Program >



Examples of the advisory relationship include the following:

1. Students visit their secondary advisors at regular intervals and receive advice on **their supplementary paper**.
2. Students participate in **workshops** organized by their secondary advisor, making presentations and engaging in class discussions.
3. Students receive **career advice** from their secondary advisors based on the advisor's experience, etc.

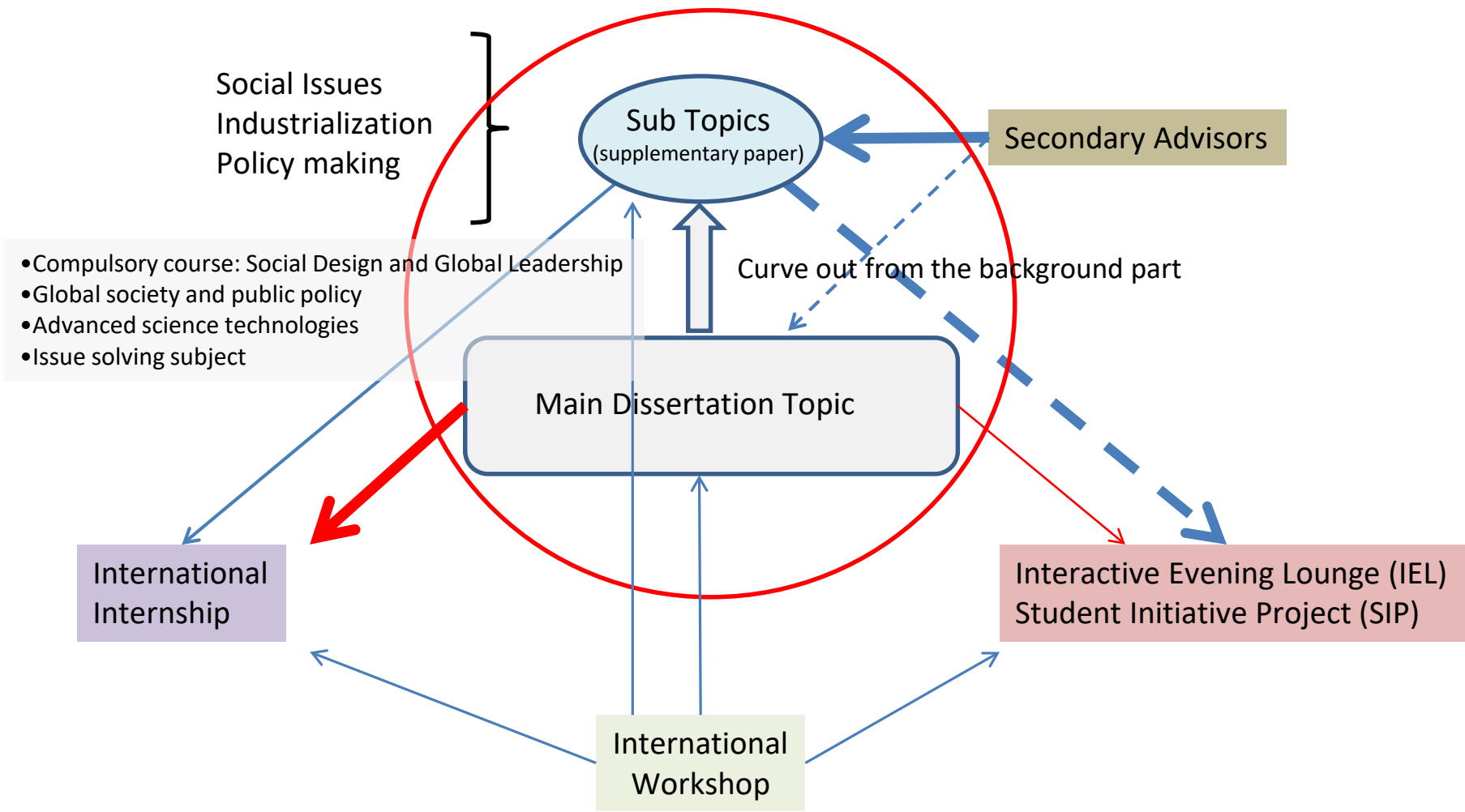




- The Supplementary Paper shall contain a discussion of **the social implications of the problems**;
  - that related to **the main doctoral topic**.
  - with interdisciplinary analysis for implementing solutions or with the framework for combining technological research and public policy research
  - by building on the content of the **Vision section** of **the Research Design Workshop (RDW) document**.
  - The minimum length of the Supplementary Paper is ten pages (4,000 words), and it must be written in English.



# Sub topics & GSDM activities





## < Selection >

- Possible main topic and sub-topics
- **The profile of SAs you need, first (do not write names only)**
- Look the teacher list of GSDM and select **direct & indirect** candidates  
→ **GSDM will propose two SAs to you**

## < Relations >

- Before the meeting with SAs, **prepare several alternatives** for sub-topics
- Discuss at least One/Two times per year
- Keep the discussion records and submit contact memos to GSDM HQ

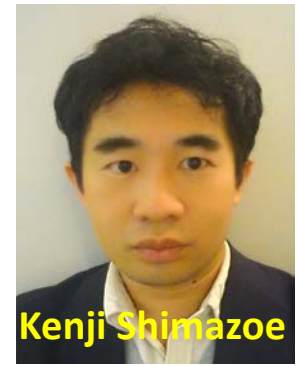
## < Topic change >

- **In case the change of a main/sub topic, you need to inform GSDM**
- **You can change your SAs at any times**



# Mentors

Support Course Work GSDM and various GSDM activities



M1	Jihyun Na, Daniel del Barrio Alvarez
M2	Jihyun Na, Daniel del Barrio Alvarez
D1	Lee Jung Su, Montagne Kevin
D2	Roberto Orsi, Kenji Shimazoe
D3, D4	Roberto Orsi, Montagne Kevin



# Mentors (career)



Based on their broad network on companies, governments, international organizations, **advise on your career design.**



## The 7<sup>th</sup> GSDM International Symposium “Anthropocene: Global Leaders for a World in Transition”

Date: Wednesday 4<sup>th</sup> March 2020

Venue: Ito Hall, Ito International Research Center

Theme: Interdisciplinarity; Transition; Leadership; Postgraduate  
Education

\*All GSDM students must attend the  
symposium. Please mark your  
calendar now!



The 6<sup>th</sup> GSDM International Symposium, March 2019



## Spring Retreat March 2020

From 21 March to 22 March, 2020  
At LecTore Hayama in Shonan Kokusai Village

**All GSDM students must join the Retreat!**

- Spring Retreat provides opportunities to learn from each other and to deepen mutual understanding..
- The program will include dialogue with invited professionals, student-led activities, Leadership Award celebration and GSDM Commencement ceremonies, etc.
- Student proposals on the Spring Retreat program are welcomed!



**RDW/QE 20 March 2020**



# Very Important

- Inform GSDM office when you leave Japan for studying abroad, internship or any other reason.
- **Carefully check emails from GSDM office and **strictly observe the deadline** of submission or reply.**
- **Read the Agreement in the enrollment document package carefully, especially where it mentions the application for DC1/DC2.**
- Student Leadership Award: students compete for an annual prize awarded on the basis of their performance as leaders.
- GSDM office will share your email address with GSDM student committee.



# About the GSDM Student Committee

- The Committee is an informal student-led organization that connects students with professors and organizes exciting extracurricular activities (social gatherings, networking events, workshops, etc.)
- The Committee currently counts ten students

Meng Su,                      Kensaku Matsunami  
Hong Xie,                     Bekzod Zakirof  
Haruhisa Yamamoto,      Shu-Qun Jin  
Kaittisak Kumse,         Leilei Bao  
XiaoXiao Liu,              Max Berthet

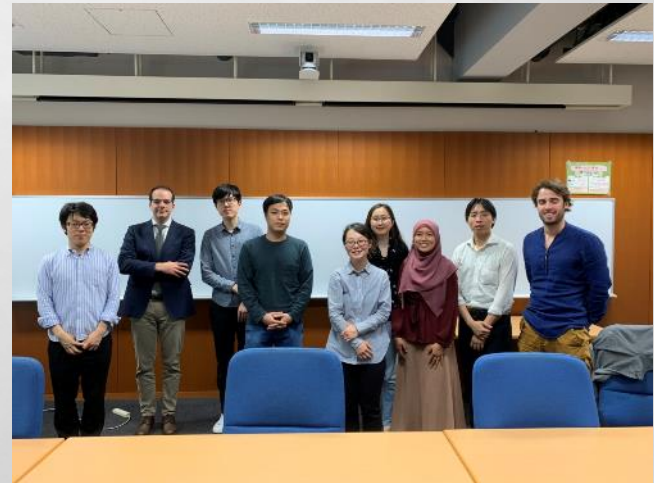
***Anyone is welcome to join!***



**Email:** [stu.com.gsdm@gmail.com](mailto:stu.com.gsdm@gmail.com)

# What we do:

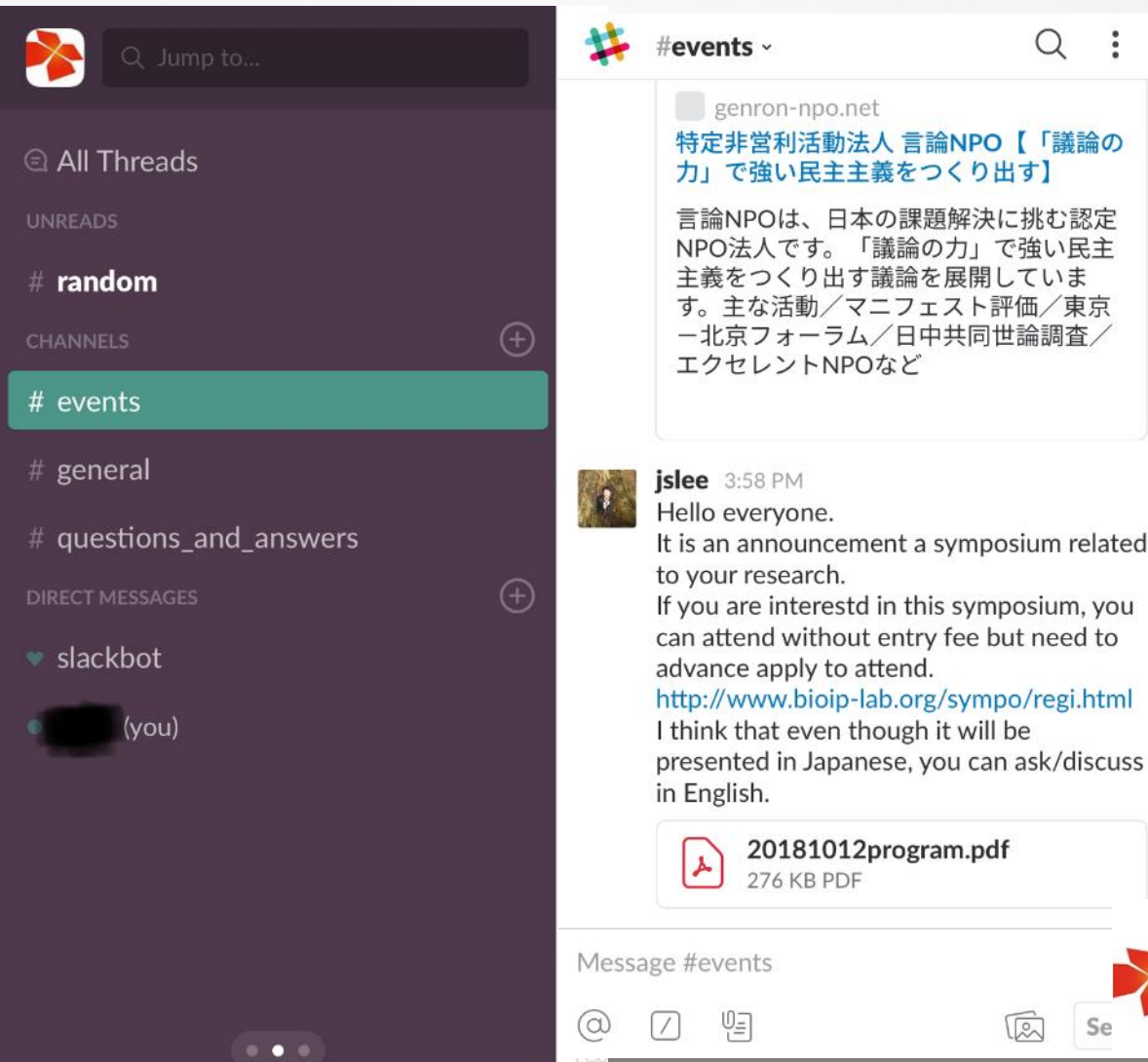
- **Meet** with GSDM professors once every month to send students' voice to faculty.
  - **Organize** extracurricular activities.
  - **Listen** to students' voices.
  - **Answer** students' questions.
  - **Help** new students to make the most of GSDM!
- 
- **Upcoming events:**
    - October – IEL (Gender inequality in Japan)
    - November – IEL (Career path of alumni)
    - March – GSDM Symposium student session, Spring Retreat



**Email:** [stu.com.gsdm@gmail.com](mailto:stu.com.gsdm@gmail.com)

# - Slack

where we share information and exchange ideas



The screenshot shows a Slack interface. On the left is a sidebar with a search bar labeled "Jump to...", a list of channels including #random, #events (highlighted), #general, and #questions\_and\_answers, and direct messages including slackbot and a contact labeled "(you)". The main area shows the #events channel with a message from genron-npo.net about a symposium. Below it is a message from user jslee at 3:58 PM, which includes a link to a registration page and a PDF attachment titled "20181012program.pdf". The bottom of the screen shows the message input area with icons for mentions, links, attachments, and a "Send" button.

- Install the Slack app and get notification
- Make full use of this platform keep in touch
- Please wait a little bit and we will invite you to Slack group.



GSDM

Workspace URL: [gsdm-student.slack.com](https://gsdm-student.slack.com)