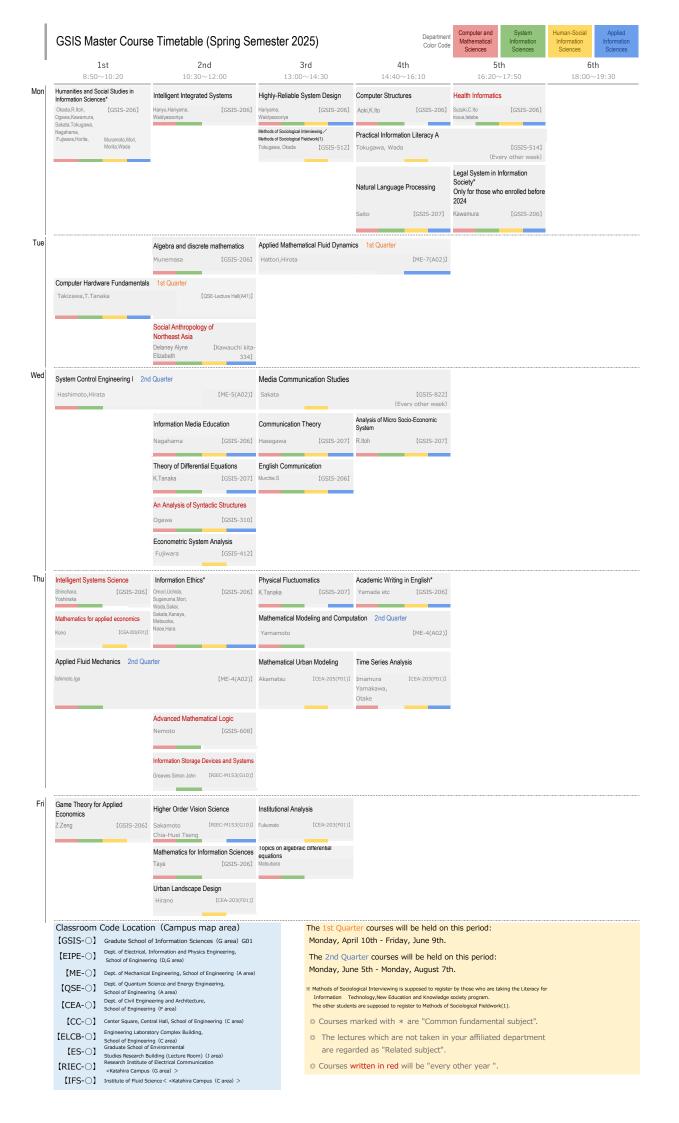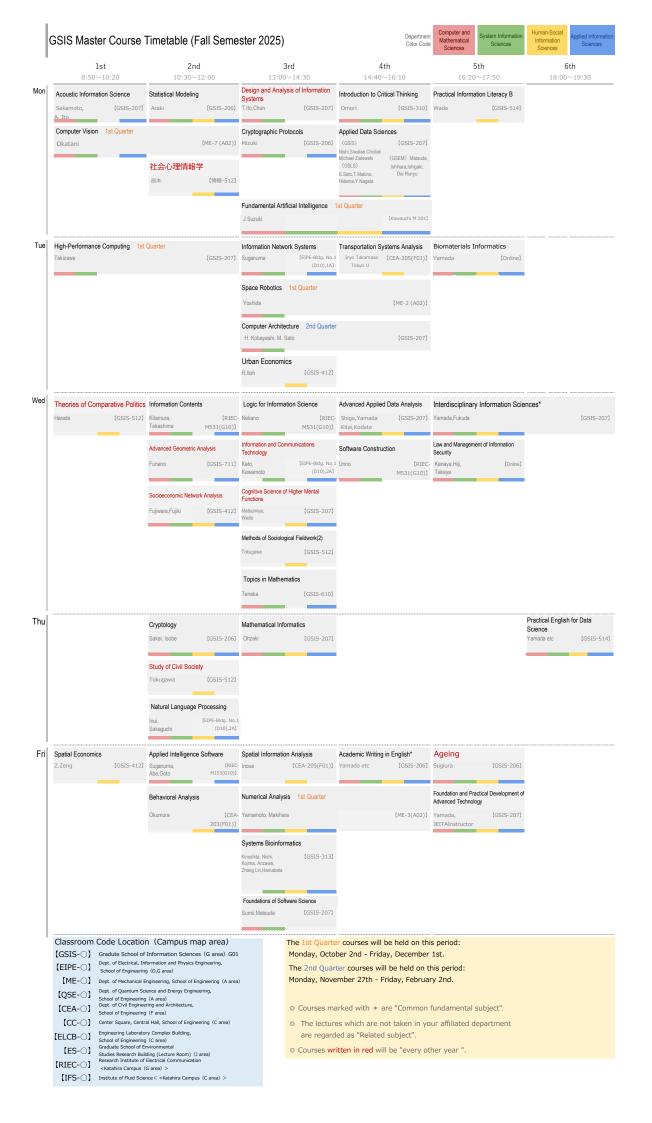# GSIS Course Timetable
Academic Year 2025

(2-year Master Program)

In case there is a change in the timetable, the latest version will be updated
on the web page of the Graduate School of Information Science (https://www.is.tohoku.ac.jp/).
Be sure to check it frequently.

Graduate School of Information Sciences
Tohoku University

GSIS Master Course Timetable (Spring Semester 2025)

Department Color Code:
- Computer and Mathematical Sciences
- System Information Sciences
- Human-Social Information Sciences
- Applied Information Sciences

	1st 8:50～10:20	2nd 10:30～12:00	3rd 13:00～14:30	4th 14:40～16:10	5th 16:20～17:50	6th 18:00～19:30
Mon	Humanities and Social Studies in Information Sciences* — Okada,R.Itoh, Ogawa,Kawamura, Sakata,Tokugawa, Nagahama, Fujiwara,Horita, Muramoto,Mori, Morita,Wada 【GSIS-206】	Intelligent Integrated Systems — Hanyu,Hariyama, Waidyasooriya 【GSIS-206】	Highly-Reliable System Design — Hariyama, Waidyasooriya 【GSIS-206】 Methods of Sociological Interviewing／Methods of Sociological Fieldwork(1) — Tokugawa, Okada 【GSIS-512】	Computer Structures — Aoki,K.Ito 【GSIS-206】 Natural Language Processing — Saito 【GSIS-207】	Health Informatics — Suzuki,C.Ito inoue,tatebe 【GSIS-206】 Practical Information Literacy A — Tokugawa, Wada 【GSIS-514】 (Every other week) Legal System in Information Society* Only for those who enrolled before 2024 — Kawamura 【GSIS-206】	
Tue	Computer Hardware Fundamentals 1st Quarter — Takizawa,T.Tanaka 【QSE-Lecture Hall(A41)】	Algebra and discrete mathematics — Munemasa 【GSIS-206】 Social Anthropology of Northeast Asia — Delaney Alyne Elizabeth 【Kawauchi kita-334】	Applied Mathematical Fluid Dynamics 1st Quarter — Hattori,Hirota 【ME-7(A02)】			
Wed	System Control Engineering I 2nd Quarter — Hashimoto,Hirata 【ME-5(A02)】	Information Media Education — Nagahama 【GSIS-206】 Theory of Differential Equations — K.Tanaka 【GSIS-207】 An Analysis of Syntactic Structures — Ogawa 【GSIS-310】 Econometric System Analysis — Fujiwara 【GSIS-412】	Media Communication Studies — Sakata 【GSIS-822】 (Every other week) Communication Theory — Hasegawa 【GSIS-207】 English Communication — Murchie.S 【GSIS-206】	Analysis of Micro Socio-Economic System — R.Itoh 【GSIS-207】		
Thu	Intelligent Systems Science — Shinohara, Yoshinaka 【GSIS-206】 Mathematics for applied economics — Kono 【CEA-203(F01)】 Applied Fluid Mechanics 2nd Quarter — Ishimoto,Iga 【ME-4(A02)】	Information Ethics* — Omori,Uchida, Suganuma,Mori, Wada,Sakai, Sakata,Kanaya, Matsuoka, Naoe,Hara 【GSIS-206】 Advanced Mathematical Logic — Nemoto 【GSIS-608】 Information Storage Devices and Systems — Greaves Simon John 【RIEC-M153(G10)】	Physical Fluctuomatics — K.Tanaka 【GSIS-207】 Mathematical Modeling and Computation 2nd Quarter — Yamamoto 【ME-4(A02)】 Mathematical Urban Modeling — Akamatsu 【CEA-205(F01)】	Academic Writing in English* — Yamada etc 【GSIS-206】 Time Series Analysis — Imamura Yamakawa, Otake 【CEA-203(F01)】		
Fri	Game Theory for Applied Economics — Z.Zeng 【GSIS-206】	Higher Order Vision Science — Sakamoto Chia-Huei Tseng 【RIEC-M153(G10)】 Mathematics for Information Sciences — Taya 【GSIS-206】 Urban Landscape Design — Hirano 【CEA-203(F01)】	Institutional Analysis — Fukumoto 【CEA-203(F01)】 Topics on algebraic differential equations — Matsubara			

Classroom Code Location （Campus map area）

- 【GSIS-○】 Graduate School of Information Sciences （G area） G01
- 【EIPE-○】 Dept. of Electrical, Information and Physics Engineering, School of Engineering （D,G area）
- 【ME-○】 Dept. of Mechanical Engineering, School of Engineering （A area）
- 【QSE-○】 Dept. of Quantum Science and Energy Engineering, School of Engineering （A area）
- 【CEA-○】 Dept. of Civil Engineering and Architecture, School of Engineering （F area）
- 【CC-○】 Center Square, Central Hall, School of Engineering （C area）
- 【ELCB-○】 Engineering Laboratory Complex Building, School of Engineering （C area）
- 【ES-○】 Graduate School of Environmental Studies Research Building (Lecture Room) （J area）
- 【RIEC-○】 Research Institute of Electrical Communication <Katahira Campus （G area）>
- 【IFS-○】 Institute of Fluid Science < Katahira Campus （C area）>

The 1st Quarter courses will be held on this period:
Monday, April 10th - Friday, June 9th.

The 2nd Quarter courses will be held on this period:
Monday, June 5th - Monday, August 7th.

※ Methods of Sociological Interviewing is supposed to register by those who are taking the Literacy for Information Technology,New Education and Knowledge society program.
The other students are supposed to register to Methods of Sociological Fieldwork(1).

◎ Courses marked with ＊ are "Common fundamental subject".

◎ The lectures which are not taken in your affiliated department are regarded as "Related subject".

◎ Courses written in red will be "every other year ".

GSIS Master Course Timetable (Fall Semester 2025)

Department Color Code: Computer and Mathematical Sciences | System Information Sciences | Human-Social Information Sciences | Applied Information Sciences

	1st 8:50~10:20	2nd 10:30~12:00	3rd 13:00~14:30	4th 14:40~16:10	5th 16:20~17:50	6th 18:00~19:30
Mon	Acoustic Information Science — Sakamoto, A. Ito 【GSIS-207】	Statistical Modeling — Araki 【GSIS-206】	Design and Analysis of Information Systems — T.Ito,Chun 【GSIS-207】	Introduction to Critical Thinking — Omori 【GSIS-310】	Practical Information Literacy B — Wada 【GSIS-514】	
	Computer Vision 1st Quarter — Okatani 【ME-7 (A02)】	社会心理情報学 — 邑本 【情報-512】	Cryptographic Protocols — Mizuki 【GSIS-206】	Applied Data Sciences 〈GSIS〉 Nishi,Siwalee Choilek Michael Zielewski 〈GSLS〉 S.Sato,T.Makino, Hidema,Y.Nagata 〈GSEM〉 Matsuda, Ishihara,Ishigaki, Dai Runyu 【GSIS-207】		
			Fundamental Artificial Intelligence 1st Quarter — J.Suzuki 【Kawauchi M 201】			
Tue	High-Performance Computing 1st Quarter — Takizawa 【GSIS-207】		Information Network Systems — Suganuma 【EIPE-Bldg. No.1 (D10),1A】	Transportation Systems Analysis — Iryo Takamasa Tokyo U 【CEA-205(F01)】	Biomaterials Informatics — Yamada 【Online】	
			Space Robotics 1st Quarter — Yoshida 【ME-2 (A02)】			
			Computer Architecture 2nd Quarter — H. Kobayashi, M. Sato 【GSIS-207】			
			Urban Economics — R.Itoh 【GSIS-412】			
Wed	Theories of Comparative Politics — Harada 【GSIS-512】	Information Contents — Kitamura, Takashima 【RIEC-M531(G10)】	Logic for Information Science — Nakano 【RIEC-M531(G10)】	Advanced Applied Data Analysis — Shiga,Yamada Kitai,Kodate 【GSIS-207】	Interdisciplinary Information Sciences* — Yamada,Fukuda 【GSIS-207】	
		Advanced Geometric Analysis — Funano 【GSIS-711】	Information and Communications Technology — Kato, Kawamoto 【EIPE-Bldg. No.1 (D10),2A】	Software Construction — Unno 【RIEC-M531(G10)】	Law and Management of Information Security — Kanaya,Hiji, Takaya 【Online】	
		Socioeconomic Network Analysis — Fujiwara,Fujiki 【GSIS-412】	Cognitive Science of Higher Mental Functions — Matsumiya, Wada 【GSIS-207】			
			Methods of Sociological Fieldwork(2) — Tokugawa 【GSIS-512】			
			Topics in Mathematics — Tanaka 【GSIS-610】			
Thu		Cryptology — Sakai, Isobe 【GSIS-206】	Mathematical Informatics — Ohzeki 【GSIS-207】			Practical English for Data Science — Yamada etc 【GSIS-514】
		Study of Civil Society — Tokugawa 【GSIS-512】				
		Natural Language Processing — Inui, Sakaguchi 【EIPE-Bldg. No.1 (D10),2A】				
Fri	Spatial Economics — Z.Zeng 【GSIS-412】	Applied Intelligence Software — Suganuma, Abe,Goto 【RIEC-M153(G10)】	Spatial Information Analysis — Inoue 【CEA-205(F01)】	Academic Writing in English* — Yamada etc 【GSIS-206】	Ageing — Sugiura 【GSIS-206】	
		Behavioral Analysis — Okumura 【CEA-203(F01)】	Numerical Analysis 1st Quarter — Yamamoto, Makihara 【ME-3(A02)】		Foundation and Practical Development of Advanced Technology — Yamada, JEITAInstructor 【GSIS-207】	
			Systems Bioinformatics — Kinoshita, Nishi, Kojima, Anzawa, Zhang Lin,Hamabata 【GSIS-313】			
			Foundations of Software Science — Sumii,Matsuda 【GSIS-207】			

Classroom Code Location (Campus map area)

- 【GSIS-◯】 Gradute School of Information Sciences (G area) G01
- 【EIPE-◯】 Dept. of Electrical, Information and Physics Engineering, School of Engineering (D,G area)
- 【ME-◯】 Dept. of Mechanical Engineering, School of Engineering (A area)
- 【QSE-◯】 Dept. of Quantum Science and Energy Engineering, School of Engineering (A area)
- 【CEA-◯】 Dept. of Civil Engineering and Architecture, School of Engineering (F area)
- 【CC-◯】 Center Square, Central Hall, School of Engineering (C area)
- 【ELCB-◯】 Engineering Laboratory Complex Building, School of Engineering (C area)
- 【ES-◯】 Graduate School of Environmental Studies Research Building (Lecture Room) (J area)
- 【RIEC-◯】 Research Institute of Electrical Communication <Katahira Campus (G area) >
- 【IFS-◯】 Institute of Fluid Science < <Katahira Campus (C area) >

The 1st Quarter courses will be held on this period:
Monday, October 2nd - Friday, December 1st.

The 2nd Quarter courses will be held on this period:
Monday, November 27th - Friday, February 2nd.

◎ Courses marked with ＊ are "Common fundamental subject".

◎ The lectures which are not taken in your affiliated department are regarded as "Related subject".

◎ Courses written in red will be "every other year".

GSIS Intensive Course and Compulsary Course List (Academic Year of 2025)

Intensive Course

The following lessons will be intensive lectures for the mentioned major.

The date and time will be announced later in a notice. All the courses in this list are OPTIONAL.

Subject Name	Open Semester	Intended Department	Instructor	Schedule
Introduction to Time Series and Spatial Modeling	Fall	All Department	Shinsuke Koyama	11/11.12
Computer Science Fundamentals	Fall	All Department	Kazunori Yamada / Natsuda Kaothanthong	11/24~28
Information Technology Fundamental	Spring	All Department	Kazunori Yamada / Pawan Tripathi	
Mathematical Structures, Special Lecture	Spring	Computer and Mathematical Sciences, System Information Sciences	Tomoki Kawahira	9/24.25.26.29.30
Mathematical System Analysis, Special Lecture	Spring	Computer and Mathematical Sciences, System Information Sciences	Masaaki Imaizumi	8/18~22
English Presentation	Spring	All Department	Steven John Bretherick	9/24.25.26.29.30
Hands-on introduction to cyber attacks and their countermeasures	Spring	All Department	Satoru Izumi / Hiroshi Tsunoda / KEENI Glenn Mansfield	
Embodied Intelligence and Robotics	Spring	All Department	Masashi Konyo	8/6.7.21.22
Internet and Information Security	Fall	All Department	KEENI Glenn Mansfield	
Data Engineering （WEB course registration）	Spring	All Department	Kazunori Yamada etc	
Data Science Training I （WEB course registration）	Spring	All Department	Kazunori Yamada etc	
Data Science Training II （WEB course registration）	Spring	All Department	Kazunori Yamada etc	
Data Science Programming Basics （WEB course registration）	Spring	All Department	Kazunori Yamada etc	

◎ Courses marked with ＊ are "Common fundamental subject".　◎ Courses written in red will be "every other year ".

Compulsory Course

The following lessons will be conducted in respective course / laboratory. The lessons in this list are SELECTABLE COMPULSORY.

Subject Name	Open Semester	Intended Department	Instructor	Remarks
Seminar on Mathematical Structures	——	Computer and Mathematical Sciences		
Seminar on Computer and Information Sciences	——			
Advanced Seminar on Mathematical Structures A	——			
Advanced Seminar on Mathematical Structures B	——			
Advanced Seminar on Computer and Information Science A	——			
Advanced Seminar on Computer and Information Science B	——			
Seminar on Mathematical System Analysis	——	System Information Science		
Seminar on System Information Sciences	——			
Advanced Seminar on Mathematical System Analysis A	——			
Advanced Seminar on Mathematical System Analysis A	——			
Advanced Seminar on System Information Sciences A	——			
Advanced Seminar on System Information Sciences B	——			
Seminar on Human-Social Information Sciences I - III	——	Human-Social Information Sciences		
Advanced Seminar on Human-Social Information Sciences A I - III	——			
Advanced Seminar on Human-Social Information Sciences B I - III	——			
Seminar on Information Literacy and Education Design	——	Human-Social Information Sciences (LItNEX Course)		
Advanced Seminar on Information Literacy and Education Design A	——			
Advanced Seminar on Information Literacy and Education Design B	——			
Project Study on Information Literacy and Education Design	——			
Seminar on Applied Information Sciences I ・ II	——	Applied Information Sciences		
Advanced Seminar on Applied Information Sciences A I - II	——			
Advanced Seminar on Applied Information Sciences B I - II	——			
Advanced Computer Training *	——			
Innovation Oriented Seminar (on Mechanical Engineering) *	——	Computer and Mathematical Sciences, System Information Sciences, Applied Information Sciences		

* These courses are OPTIONAL.

GSIS Course Timetable
Academic Year 2025

（3-year Doctoral Program）

In case there is a change in the timetable, the latest version will be updated
on the web page of the Graduate School of Information Science (https://www.is.tohoku.ac.jp/).
Be sure to check it frequently.

Graduate School of Information Sciences
Tohoku University

GSIS Doctoral Program Course List (Academic Year of 2025)

Compulsory / Optional Subjects

Please follow the requirement of each laboratory or program you belong to.

Subject name	Open Semester		Intended Department	Instructor	Compulsory / Optional
Fundamental Doctor Course Seminar	——	——	All Departments (except LItNEX Course)	-	Compulsory
Doctor Course Seminar A	——	——	All Departments (except LItNEX Course)	-	Compulsory
Doctor Course Seminar B	——	——	All Departments (except LItNEX Course)	-	Compulsory
Advanced Doctor Course Seminar	——	——	All Departments (except LItNEX Course)	-	Optional
Fundamental Seminar on Information Literacy and Education Design I	——	——	Human-Social Information Sciences (LItNEX Course)	-	Compulsory
Doctoral Seminar on Information Literacy and Education Design I	——	——	Human-Social Information Sciences (LItNEX Course)	-	Compulsory
Doctoral Seminar on Information Literacy and Education Design II	——	——	Human-Social Information Sciences (LItNEX Course)	-	Compulsory
Advanced Doctoral Seminar on Information Literacy and Education Design II	——	——	Human-Social Information Sciences (LItNEX Course)	-	Optional
Advanced Seminar I * （WEB course registration）	——	——	All Departments	——	Optional
Advanced Seminar II * （WEB course registration）	——	——	All Departments	——	Optional
Data Science Challenge * （WEB course registration）	Spring	(5th.6th hr.) 【GSIS-206】	All Departments	Kazunori Yamada	Optional
Data Science Special Training	——	——	All Departments (GP-DS students)	——	Optional

* These courses are compulsory for DSP II ,AIQDS/ GP-DS students