

(Updated on April 1, 2025)

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

Classroom Code Location (Campus map area)

【GSIS-〇〇】	Gradute School of Information Sciences (G area) G01
【EIPE-〇〇】	Dept. of Electrical, Information and Physics Engineering, School of Engineering (D,G area)
【ME-〇〇】	Dept. of Mechanical Engineering, School of Engineering (A area)
【QSE-〇〇】	Dept. of Quantum Science and Energy Engineering, School of Engineering (A area)
【CEA-〇〇】	Dept. of Civil Engineering and Architecture, School of Engineering (F area)
【CC-〇〇】	Center Square, Central Hall, School of Engineering (C area)
【ELCB-〇〇】	Engineering Laboratory Complex Building, School of Engineering (C area)
【ES-〇〇】	Graduate School of Environmental Studies Research Building (Lecture Room) (J area)
【RIEC-〇〇】	Research Institute of Electrical Communication <Katahira Campus (G area) >
【IFS-〇〇】	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)

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)]		Cryptographic Protocols Mizuki [GSIS-206]	Applied Data Sciences (GSIS) [GSIS-207] Nishi, Siwattee Cholek (GSEM) Matsuda, Michael Zielewski (GSLS) Ishihara, Ishigaki, S. Sato, T. Makino, Hidema, Y. Nagata Dai Runyu						
		社会心理情報学 邑本 [情報-512]								
			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]							
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, Arizawa, Zhang Lin, Hamabata [GSIS-313]							
			Foundations of Software Science Sumii, Matsuda [GSIS-207]							

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, 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	12/15~19
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.

(Updated on April 1, 2025)

GSIS Course Timetable

Academic Year 2025



(3-year Doctoral Program)

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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