

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, Mori,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	
			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	1st Quarter [ME-7(A02)]		
	Computer Hardware Fundamentals Takizawa, T. Tanaka [QSE-Lecture Hall(A41)]	Social Anthropology of Northeast Asia Delaney Alyne Elizabeth [Kawauchi kita-334]				
Wed	System Control Engineering I Hashimoto,Hirata [ME-5(A02)]	Information Media Education Nagahama [GSIS-206]	Media Communication Studies Sakata [GSIS-822] (Every other week)	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)]			
	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)

		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	Statistical Modeling	Design and Analysis of Information Systems	Introduction to Critical Thinking	Practical Information Literacy B	
	Computer Vision	Okatani	社会心理情報学	Cryptographic Protocols	Applied Data Sciences		
Tue	High-Performance Computing	Takizawa	Information Network Systems	Transportation Systems Analysis	Biomaterials Informatics		
	Space Robotics	Yoshida	Computer Architecture	Urban Economics			
Wed	Theories of Comparative Politics	Harada	Information Contents	Logic for Information Science	Advanced Applied Data Analysis	Interdisciplinary Information Sciences*	
	Advanced Geometric Analysis	Funano	Information and Communications Technology	Software Construction	Law and Management of Information Security		
Thu	Cryptography	Kunbayashi Sakai, Isobe	Mathematical Informatics			Practical English for Data Science	
	Study of Civil Society	Tokugawa					
Fri	Spatial Economics	Z. Zeng	Applied Intelligence Software	Spatial Information Analysis	Academic Writing in English*	Ageing	
	Behavioral Analysis	Okumura	Numerical Analysis	Systems Bioinformatics	Foundation and Practical Development of Advanced Technology		

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	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)

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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