## FY 2022 Nagoya University

**Program** 

Nagoya University **Education for Sustainable Development** Consortium Program with 6 Graduate Schools

環境学 **GSES** 人文学 国際開発 **GSH GSID E**ducation for Sustainable Development Program by 6 Graduate 経済学 生命農学 **Schools** SOEC **GSBS** 工学 **ENGG** 

Nagoya University Education for Sustainable Development Program (NU ESD Program) which relates to sustainable development (SD) education and research, was launched in 2013. Nagoya University now offers the ESD Program in collaboration with 6 Graduate Schools associated with SD, including the Graduate school of Environmental Studies, International Development, Bioagricultural Studies, Engineering, Economics and Humanities.

In 2014, the UNESCO World Conference on the UN's 10 Years of Education for Sustainable Development (ESD, 2005 - 2014) held in Nagoya. In 2015, the UN adopted the 2030 Agenda for Sustainable Development Goals (SDGs). SDGs have 17 goals which aim to end poverty, protect the planet and improve the lives and prospects of everyone, everywhere. And each goal has multiple targets, in all 169.

The Nagoya University Academic Charter states that we seek to, "Contribute to global exchange, especially with Asian countries, by promoting international academic collaboration and the education of international students". We hope our students at Nagoya University will become the leaders of a sustainable future. To fulfill this role, basic understanding and sharing of values, principles, and knowledge in SD as part of their liberal arts study is crucial. And students must balance discipline-type and solution-type research and education related to SD.

Students admitted to a master's course in any of the graduate schools (Initial Postgraduate Program) may earn up to 10 credits in other graduate schools. Approximately, 1,100 students in total join this program annually, and about 70 of them take subjects at another graduate school in FY2021. Check the graduate school or department's provisions on courses for details.

Through the NU ESD Program, it is expected that students will be acquired the value and knowledge of SD, disciplines and skills to find solutions, and ability of simultaneously achieve multiple SDGs.

## SUSTAINABLE GALS DEVELOPMENT GALS









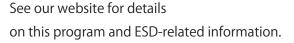




























**Education and Research Center for** Sustainable Co-Development, Nagoya University





### 2022 Course Lists of Graduate Schools

#### Graduate School of Environmental Studies (GSES) Syllabus: https://syllabus.adm.nagoya-u.ac.jp/data/2022/34\_2022.html

The association between each GSES Course and the 17 goals of SDGs is available on the website.  $http://www.nuesd.env.nagoya-u.ac.jp/pdf/sdgs/ESD2022\_SDGs.pdf$ 



Classes taught in English	Classes	may be taught in En	glish (depending	on the request o	of the students
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Course Title	Format	Class	Semester	Credit	Room	Instructors	Day	Period
Field Seminar on Environmental Studies	Seminar	M 1, 2	Spring	2	Lecture Room 1/GSES	Prof. Yasuhiko Nishizawa (Lead)	Wed.	5th
Ecology	Lecture	M 1, 2	Fall	2	Lecture Room 1/GSES	Prof. Kenichiro Sugitani, Prof. Ken Yoda	Wed.	2nd
Introduction for Sustainable Development	Lecture	M 1, 2	N/A	2	_	Prof. Masao Takano, Prof. Hirokazu Kato, Prof. Hisashi Komatsu, Designated Assoc. Prof. Noriko Sugiyama	_	_
Sustainability and Environmental Studies	Lecture	M 1, 2	Fall	2	Lecture Room 2/GSES	Assoc. Prof. Anatoly Zinchenko, Prof. Hiroki Tanikawa, Assoc. Prof. Miho Iryo	Fri.	2nd
Studies on Water Environment	Lecture	M 1, 2	Spring	2	Lecture Room 3/GSES	Assoc. Prof. Noriyuki Kawamura (Lead)	Wed.	2nd
Environmental Studies on Natural Resources and Energy	Lecture	M 1, 2	Spring	2	Lecture Room 2/GSES	Prof. Masao Takano	Thu.	2nd
Practical Seminar on Developing Sustainable Local Communities	Seminar	M 1, 2	Year- Round	4	Seminar Room3/GSES	Prof. Masao Takano	Mon.	5th
Science and Technology for Disaster Mitigation 1A: Understanding Natural Hazard	Lecture	M 1, 2	Spring	2	Lecture Room 2/GSES	Prof. Yasuhiro Suzuki(Lead)	Fri.	3rd
Science and Technology for Disaster Mitigation 1B: Social Science Approaches	Lecture	M 1, 2	Fall	2	Lecture Room 1/GSES	Prof. Makoto Takahashi, Assoc. Prof. Kenji Muroi	Wed.	1st
Science and Technology for Disaster Mitigation 2: Methodology for Disaster Mitigation	Lecture	M 1, 2	Fall	2	GensaiHall/Disaster Mitigration Research Center	Assoc. Prof. Takuya Nagae(Lead)	Thu.	2nd
Science and Technology for Disaster Mitigation 3A: Practical Actions for Disaster Mitigation (1)	Lecture	M 1, 2	Spring	1	GensaiHall/Disaster Mitigration Research Center	Prof. Jun Tobita	TBD	TBD
Science and Technology for Disaster Mitigation 3B: Practical Actions for Disaster Mitigation (2)	Lecture	M 1, 2	Fall	1	GensaiHall/Disaster Mitigration Research Center	Prof. Jun Tobita	TBD	TBD
Introduction to Geology	Lecture	M 1	Spring	2	Seminar Room1/GSES	Disgnated Assoc. Prof. Marc Andre Humblet	Mon.	2nd
Sustainable City Studies	Lecture	M 1	Spring	2	Lecture Room 2/GSES	Prof. Hiroki Tanikawa(Lead)	Wed.	2nd
Environmental Urban Systems	Lecture	M 1, 2	Fall	2	Lecture Room 1/GSES	Assoc. Prof. Miho Iryo	Mon.	2nd
English Communication in Environmental Issues	Lecture	M 1, 2	Spring	1	Lecture Room 2/GSES	Assoc. Prof. Miho Iryo, Lecturer CHUN Sohyun	Fri.	4th
Special Lecture on Environmental Studies (English language) 1	Lecture	M 1, 2	TBD	1	TBD	Academic Affairs Committee	TBD	TBD
Special Lecture on Environmental Studies (English language) 2	Lecture	M 1, 2	TBD	2	TBD	Academic Affairs Committee	TBD	TBD
Introduction to Earth and Planetary Sciences	Lecture	M 1, 2	Spring	2	Lecture Room 2/GSES	Assoc. Prof. Shinichi Shirono(Lead)	Tue.	1st
Global and Urban Warmings	Lecture	M 1, 2	N/A	2	_	Prof. Takeshi Nakatsuka(Lead)	_	_
Housing and Environment	Lecture	M 1, 2	Fall	2	Lecture Room 3/GSES	Assoc. Prof. Teruyuki Saito(Lead)	Tue.	2nd
Environmental Policies and Strategies	Lecture	M 1, 2	Intensive Fall	2	TBD	Prof. Ryo Kohsaka	TBD	TBD
Environmental Ethics	Lecture	M 1, 2	N/A	2	_	Prof. Koji Maruyama	_	_
Classes and Research Instruction in Basic Environmental Studies I	Seminar	D 1, 2	TBD	2	TBD	Prof. Masao Takano, Prof. Hirokazu Kato	TBD	TBD
Classes and Research Instruction in Basic Environmental Studies II	Seminar	D 2	TBD	2	TBD	Prof. Masao Takano, Prof. Hirokazu Kato	TBD	TBD
On-site Research Training in Clinical Environmental Studies I	Field	D 1, 2	TBD	2	TBD	Prof. Hirokazu Kato, Assoc. Prof. Yasuhiro Hirano, Assoc. Prof. Noriyuki Kawamura, Asst. Prof. Takafumi Miyasaka, Visiting Prof. Hiromi Yamashita	TBD	TBD
On-site Research Training in Clinical Environmental Studies II	Field	D 2	TBD	2	TBD	Prof. Hirokazu Kato, Assoc. Prof. Yasuhiro Hirano, Assoc. Prof. Noriyuki Kawamura, Asst. Prof. Takafumi Miyasaka, Visiting Prof. Hiromi Yamashita	TBD	TBD

 $\label{lem:graduate School of Engineering (ENGG)} Graduate School of Engineering (ENGG) \\ {\tt Syllabus:http://syllabus.engg.nagoya-u.ac.jp/syllabus/index.html?gcf=hcoJwpNbDq4\%3D} \\ {\tt Syllabus:html} \\ {\tt Syllabus:ht$ 

Course Title	Format	Class	Semester	Credit	Room	Instructors	Day	Period
Civil Engineering and Policies for Developing Countries I	Lecture	M 1, 2	N/A	2	-	_	_	_
Civil Engineering and Policies for Developing Countries II	Lecture	M 1, 2	Fall	2	911/ENGGBldg.	Prof. Kiichiro Hayashi	Wed.	3rd
Advanced Theory of River Basin Management	Lecture	M 1	Spring	2	102/ENGG Bldg. 8	Prof. Yuji Toda	Tue.	2nd
Conservation and Ecotoxicology of Soil and Water	Lecture	M 1	Spring	2	Seminar Room 2/ENGG Bldg. 9	Prof. Arata Katayama	Thu.	2nd



#### **Graduate School of Economics (SOEC)**

Course Title	Format	Class	Semester	Credit	Room	Instructors	Day	Period
Theme Workshop (Resource, the Environment and Economic Growth)	Seminar	M1-D3	N/A	2	-	_	_	-

#### Graduate School of International Development (GSID) Syllabus: https://syllabus.adm.nagoya-u.ac.jp/data/2022/30\_2022.html



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Course Title	Format	Class	Semester	Credit	Room	Instructors	Day	Period
Introduction to International Development	Lecture	M 1, 2	Spring	2	On-line	GSID Faculty Members (Lead: TBD)	Wed.	3rd
Japan's Development Experience	Lecture	M 1, 2	Fall	2	On-line	GSID Faculty Members (Lead: TBD)	Wed.	3rd
Development Cooperation	Lecture	M 1, 2	Fall	2	TBD	Prof. Masafumi Nagaishi(Applied Social System Institute of Asia)	TBD	TBD
Development Assistance	Lecture	M 1, 2	N/A	2	-	-	-	_
Theory on Non-Governmental Organizations	Lecture	M 1, 2	Intensive Spring	2	TBD	Adjunct Prof. Masato Noda	TBD	TBD
Development Economics	Lecture	M 1, 2	Spring	2	Auditorium	Prof. Shigeru Otsubo	Tue.	2nd
Law and Development	Lecture	M 1, 2	Spring	2	Lecture Room 2/GSID	Prof. Yuzuru Shimada	Thu.	2nd
Development and Justice	Lecture	M 1, 2	N/A	2	-	-	-	-
Political Institution Theory	Lecture	M 1, 2	Fall	2	Lecture Room 3/GSID	Assoc. Prof. Isamu Okada	Tue.	2nd
Peacebuilding	Lecture	M 1, 2	Spring	2	Auditorium	Assoc. Prof. Kentaro Fujikawa	Fri.	4th
International Development and Poverty	Lecture	M 1, 2	Spring	2	Auditorium	Prof. Sanae Ito	Thu.	2nd
Sustainable Tourism and Development	Lecture	M 1, 2	N/A	2	-	_	_	_

#### Graduate School of Bioagricultural Studies (GSBS) Syllabus: https://syllabus.adm.nagoya-u.ac.jp/data/2022/09\_2022.html



Course Title	Format	Class	Semester	Credit	Room	Instructors	Day	Period
Principles of Bioagricultural Sciences	Lecture	M 1	Spring 1	1	Lecture Room 12/GSBS	GSBS Faculty Members	Tue.	1st
Forest Environment Science	Lecture	M 1	Fall 1	1	Lecture Room 7/GSBS	Assoc. Prof. Takafumi Tanaka, Asst. Prof. Ayumi Kotani, Assoc. Prof. Toko Tanikawa	Mon.	5th
Forest Biology	Lecture	M 1	Spring 2	1	Lecture Room 5/GSBS	Assoc. Prof. Hisashi Kajimura, Prof. Nobuhiro Tomaru, Assoc. Prof. Michiko Nakagawa, Lecturer Kazuharu Ogawa, Asst. Prof. Wataru Toki	Mon.	1st
Forest Sociology	Lecture	M 1	Fall 1	1	Lecture Room 7/GSBS	Prof. Kazuhiro Harada, Assoc. Prof. Takafumi Tanaka, Assoc. Prof. Seiji lwanaga	Thu.	1st
Forest Resource Industrialization	Lecture	M 1	Spring 2	1	Lecture Room 7/GSBS	Assoc. Prof. Mariko Yamasaki, Assoc. Prof. Kazukiyo Yamamoto, Assoc. Prof. Seiji Iwanaga, Prof. Hiroyuki Yamamoto, Asst. Prof. Kosei Ando	Thu.	5th
Advanced Soil Science	Lecture	M 1	Spring 1	1	Lecture Room 5/GSBS	Prof. Akira Watanabe, Prof. Jun Murase, Prof. Susumu Asakawa, Lecturer Takeshi Watanabe	Mon.	1st
Advanced Biomass Science	Lecture	M 1	Spring 1	1	Lecture Room 7/GSBS	Prof. Kazuhiko Fukushima, Prof. Hiroyuki Yamamoto, Assoc. Prof. Takanori Imai, Assoc. Prof. Masato Yoshida, Lecturer Dan Aoki	Fri.	5th
Wood Cytology	Lecture	M 1	Fall 1	1	Lecture Room 5/GSBS	Prof. Kazuhiko Fukushima, Prof. Hiroyuki Yamamoto, Assoc. Prof. Takanori Imai, Assoc. Prof. Masato Yoshida, Lecturer Dan Aoki	Thu.	5th
Analysis for Biological Materials	Lecture	M 1	Spring 1	1	Lecture Room 5/GSBS	Prof. Satoru Tsuchikawa, Assoc. Prof. Mariko Yamasaki, Lecturer Tetsuya Inagaki, Asst. Prof. Kosei Ando	Mon.	2nd
Nonlinear Mechanics of Materials	Lecture	M 1	Fall 1	1	Lecture Room 7/GSBS	Assoc. Prof. Mariko Yamasaki, Asst. Prof. Kosei Ando	Thu.	2nd

#### Graduate School of Humanities(GSH) Syllabus:https://syllabus.lit.nagoya-u.ac.jp/curriculum3



Course Title	Format	Class	Semester	Credit	Room	Instructors	Day	Period
Advanced Seminar on Archaeology I*	Seminar	M 1, 2	Intensive Spring	2	TBD	Prof. Yoshimitsu Kajiwara, Prof. Naoto Yamamoto, Asst. Prof. Nobuyuki Ito	TBD	TBD
Advanced Seminar on Archaeology II*	Seminar	M 1, 2	Intensive Fall	2	TBD	Prof. Yoshimitsu Kajiwara	TBD	TBD
Research on Cultural Heritage	Lecture	M 1, 2	Fall	2	TBD	Prof. Kensuke Chikamoto	Fri.	2nd
Studies in Cultural Resources I	Seminar	M 1, 2	Spring	2	TBD	Prof. Tomohiro Furuoya, Prof. Yoshimitu Kajiwara	Mon.	5th
Studies in Cultural Resources IIa	Seminar	M 1, 2	Spring	2	TBD	Prof. Tomohiro Furuoya, Assoc. Prof. Hideya Kawanishi	Mon.	1st
Studies in Cultural Resources IIb	Seminar	M 1, 2	Fall	2	TBD	Prof. Tomohiro Furuoya, Assoc. Prof. Hideya Kawanishi	Mon.	1st

<sup>\*</sup>Please contact Prof. Yoshimitsu Kajiwara(kajiwara@lit.nagoya-u.ac.jp)before attending (expect for Archaeology Student).



### **FY2022** The ESD Consortium Program Mechanism

## Shared Values / Knowledge

# Obtaining Skills & Competencies for Solution

Diversity & Inter-Dependency of the Environment, Economy, Society & Culture

- ➤ Sustainability and Environmental Studies (GSES)
- ➤Introduction to Earth and Planetary Sciences(GSES)
- ➤ Ecology(GSES)
- ➤ Environmental Urban Systems (GSES)
- ➤ Civil Engineering and Policies for Developing Countries II (ENGG)
- ➤Theme Workshop (Resource, the Environment and Economic Growth)(SOEC)
- ➤ Forest Resource Industrialization(GSBS)



## Knowledge

Climate Change, Biodiversity, Water/Energy Resources, Population, Health, Disaster Management, Vulnerability/ Instability



## Principle Sustainable Living.

Living,
Democracy,
Sustainable
Production &
Consumption,
Equality &
Peace in Society

### <u>Value</u>

Justice, Equality, Tolerance, Sufficiency & Responsibility

- ➤ Sustainable City Studies(GSES)
- ➤ Global and Urban Warmings(GSES)
- ▶ Principles of Bioagricultural Sciences (GSBS)
- ➤ Forest Environment Science(GSBS)
- ➤ Forest Biology(GSBS)
- ➤ Forest Sociology(GSBS)
- ➤ Advanced Soil Science(GSBS)
- ➤ Wood Cytology(GSBS)
- ➤ Nonlinear Mechanics of Materials(GSBS)
- ➤ Studies on Water Environment(GSES)
- >Environmental Studies on Natural Resources and Energy(GSES)
- ➤Introduction to Geology (GSES)
- ➤ Advanced Theory of River Basin Management(ENGG)
- ➤ Conservation and Ecotoxicology of Soil and Water(ENGG)
- ➤ Housing and Environment(GSES)
- Science and Technology for Disaster Mitigation 1A: Understanding Natural Hazard(GSES)
- ➤ Science and Technology for Disaster Mitigation 1B: Social Science Approaches(GSES)
- Science and Technology for Disaster Mitigation 2: Methodology for Disaster Mitigation(GSES)
- ➤ Special Lecture on Environmental Studies (English language) 1(GSES)
- ➤ Special Lecture on Environmental Studies (English language) 2(GSES)
- ➤Introduction for Sustainable Development(GSES)
- Classes and Research Instruction in Basic Environmental Studies I(GSES)
- ➤ Classes and Research Instruction in Basic Environmental Studies II(GSES)
- ➤ Environmental Ethics(GSES)
- ➢Introduction to International Development(GSID)
- ➤ Development and Justice(GSID)
- ➤ Peacebuilding(GSID)



**Innovation** 

- Environmental Policies and Strategies (GSES)
- >English Communication in Environmental Issues(GSES)
- > Japan's Development Experience(GSID)
- ➤ Development Cooperation(GSID)
- Development Assistance(GSID)
- ➤ Theory on Non-Governmental Organizations(GSID)
- ➤ Development Economics(GSID)
- Law and Development(GSID)
- ➤ Political Institution Theory(GSID)
  ➤ International Development and
- ➤International Development and Poverty(GSID)
- Sustainable Tourism and Development (GSID)



Local,
Traditional
&
Indigenous
Knowledge

- ➤ Field Seminar on Environmental Studies(GSES)
- Practical Seminar on Developing Sustainable Local Communities(GSES)
- ➤On-site Research Training in Clinical Environmental Studies I(GSES)
- ➤ On-site Research Training in Clinical Environmental Studies II(GSES)
- >Studies in Cultural Resources I (GSH)
  >Studies in Cultural Resources II a(GSH)
- >Studies in Cultural Resources II b(GSH)
- Research on Cultural Heritage(GSH)
- Advanced Seminar on Archaeology I(GSH)
- >Advanced Seminar on Archaeology II(GSH)
  >Advanced Seminar on Archaeology II(GSH)



Technological Innovation

- Science and Technology for Disaster
  Mitigation 3A: Practical Actions for Disaster
  Mitigation (1) (GSES)
- Science and Technology for Disaster Mitigation 3B: Practical Actions for Disaster Mitigation (2)(GSES)
- ➤ Civil Engineering and Policies for Developing Countries I (ENGG)
- ➤ Analysis for Biological Materials(GSBS)
- ➤ Advanced Biomass Science(GSBS)

Nagoya University Education for Sustainable Development Program by 6 Graduate Schools (GSES, GSID, GSBS, ENGG, SOEC, GSH)



