

# Hiroshima University Graduate School of Advanced Science and Engineering

1.	Graduate School Code	14a	
2.	Area	Engineering	
3.	Research Field	Division of Advar Science and Eng Disaster preventi planning/ Marine	nced Science and Engineering / Transdisciplinary lineering Program lon/ Architecture/ Urban, regional and transportation development and usage/ Ecosystem conservation and logical resource development and usage/ Public health
4.	Degree		sophy, Master of Engineering, Master of International
5.	Standard Timetable (Years needed for graduation)	JISR participant latter half of the	se for about 1 year at a designated organization with other and studying as a research student for 6 months in the term simultaneously, then starting Master Course for 2 ng the entrance exam
6.	Language of Program	<ul> <li>(1) Lecture: All</li> <li>(2) Text: Englis partially for the research</li> <li>(3) Laboratory with the research</li> <li>(4) Seminar: Senglish.</li> <li>(5) Learning January</li> </ul>	lectures in English h will be used generally but Japanese text will be used supplementary materials. vork: Safety instructions are written in English. Conducting of is generally instructed by the supervisor in English. eminars including Japanese students are generally in apanese: For details, see "5. Standard Timetable (Years graduation)" and "Japanese Language" in "9. Additional
7.	Desirable English Level and Necessary Academic Background	test. The scores entrance examin In case an applic will accept an off the medium of in attended/is attended/is attended	equired to submit an official score certificate of language must be fewer than two years old at the time of the ation.  ant cannot submit any of the above score certificates, We icial document made by the university which certifies that struction in the foreign institution which the applicant has ding is English. Applicant must submit this official document tificate of Japanese/English language test score.
8.	Website	(1) Hiroshima U https://www (2) Graduate So https://www (3) Transdiscipl	· · · · · · · · · · · · · · · · · · ·
9.	Additional Information	Availability	Note
Jap	anese Language		
(1)	Necessity of Japanese language for study	Not necessary in Master course	
(2)	Availability of Japanese language class	Available	<ol> <li>There is an opportunity to study Japanese for 1 year before starting Master course.</li> <li>Japanese language program is available after starting Master course. Please refer to the following URL. <a href="https://momiji.hiroshima-u.ac.jp/momiji-top/en/international/japaneseclass.html">https://momiji.hiroshima-u.ac.jp/momiji-top/en/international/japaneseclass.html</a></li> </ol>



Facil	Facility Information		
(1)	Dormitory available for	Available	Please refer to the following URL
	JISR participants		https://momiji.hiroshima-u.ac.jp/momiji-
			top/en/international/housing-for-international-students.html
(2)	Prayers room or Mosque	Available	We have prayers room (8th floor)
(3)	Halal food available in	Available	DAIGAKUKAIKAN-Cafeteria
	cafeteria		HIGASHI-cafeteria
Others			
(1)	Tutor system	Available	Available student supporter for the first 2 months

## 10. Features and Curriculum of Program

Transdisciplinary Science and Engineering Program conducts research and education, from an international perspective, related to a variety of technologies that can facilitate sustainable development, based upon our knowledge of the local environment of a particular country. More specifically, our focus upon developing countries, primarily in Asia, includes the following areas: disaster prevention, architecture, urban/regional and transportation planning, marine development and usage, ecosystem conservation and management, and biological resource development and usage.

The list of courses offered in AY 2020.

Common Subjects	
Common Graduate Subjects	Credits
World Peace and HIROSHIMA	
Japanese Experience of Social Development- Economy, Infrastructure, and Peace	1
Japanese Experience of Human Development-Culture, Education, and Health	1
Academic approach to SDGs - A	1
Academic approach to SDGs - B	1
Practical Approach to SDGs	2
Understanding diversity and Inclusion	1
Data Literacy	1
Data Literacy in Medicine	1
Career Management - Theory & Career Development	2
Career Management for Engineer	2
Stress Management	2
Information security	2
Introduction to MOT	1
Entrepreneurship	1
Common Graduate School Subjects	Credits
Academic Writing I	1
Exercises in International Academic Studies A	1
Exercises in International Academic Studies B	2
MOT and Venture Business	1
Technology Strategy for Management	1
Intellectual Property, Finance and Accounting	1
Technology Transfer	
PBL for Technology Transfer	1
Future Creation Thinking (Basic)	
International Standardization for Rule Making	1



Management of Technology for Science and Engineering	1	
Idea Mining Workshop	1	
Business Creation Practicum	1	
Introduction to Fieldwork Method and Practice	1	
Internship	1	
Data Visualization A	1	
Data Visualization B	1	
Principles of Environment A	1	
Principles of Environment B	1	
Subjects Specialized for the Program	Credits	
Special Exercises of Advanced Science and Engineering Transdisciplinary Science and	-	
Engineering A	2	
Special Exercises of Advanced Science and Engineering Transdisciplinary Science and		
Engineering B	2	
Special Study of Advanced Science and Engineering Transdisciplinary Science and		
Engineering	4	
Earth Materials	2	
Dynamics of Earth Surface Material Cycle	2	
Risks and Sciences in Natural Environment	2	
Global Fluid Dynamics and Natural Disaster Prevention	2	
Fundamentals of Complex Matter	2	
Complex Materials Science	2	
Structure of Complex Matter	2	
Quantum Theory of Correlated Matter	2	
Correlated Materials Science	2	
Spectroscopies of Correlated Matter	2	
Information Systems		
Information Security	2	
Computational Science	2	
Computational Statistics	2	
Media Communication	2	
Sustainability Materials Science	2	
Seminar in Integrated Arts and Sciences	2	
Environmental Management	2	
Developing Designing Ability	2	
International Environmental Cooperation Studies	2	
Practical Seminar on International Cooperation Project	2	
Development Technology	4	
Transportation Engineering	2	
Transportation Planning	2	
Regional and Urban Engineering	2	
Tourism Policy	2	
Fundamentals of Survey Methodology	2	
Risk Management Technology	2	
Sustainable Architecture A	2	
Sustainable Architecture B	2	
Energy Science and Technology	2	
Numerical Environmental Impact Assessment I	2	
Numerical Environmental Impact Assessment II	2	
Geographic Information System Technology	2	



Botany Resources for the Future	
Environmental Monitoring	
Biomass Energy Technology	
Ecosystem Conservation and Management Science	
Management and Conservation of Ecosystems	
Environmental Health Science	
Urban Environmental Science	
Special Seminar for Linkage Program I	
Special Seminar for Linkage Program II	
Joint Exercises in Advanced Science and Engineering Transdisciplinary Science and Engineering	

## 11. Professors and Associate Professors

Position	Name	Research Subject/ Contact
Professor	ZHANG Junyi	Various urban, transportation, environment and energy, health, and
		tourism issues are targeted from the viewpoint of mobilities and urban
		policy. Relevant research deals with the development of methodologies,
		technological development, and policy evaluation and formulation for
		problem solving based on interdisciplinary approaches.
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		u.ac.jp/profile/en.0eca0b2f387646e6520e17560c007669.html
		URL (website of this laboratory):
		https://home.hiroshima-u.ac.jp/~zjy/
Professor	NISHINA Daisaku	Living environment planning in buildings and urban area: water
		environment, landscape and environmental psychology
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		<u>u.ac.jp/profile/en.57151c9f8dd66850520e17560c007669.html</u>
Professor	FUJIWARA Akimasa	Transportation planning methods, evaluation of transport policies, and
		sustainable development and transport
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		<u>u.ac.jp/profile/en.c27c423698841175520e17560c007669.html</u>
		URL (website of this laboratory):
		https://home.hiroshima-u.ac.jp/afujiw/ja/home-2/
Associate	KASHIMA Saori	Epidemiological study focusing on environmental health problems,
Professor		Development of health care system based on spatial statistics
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		<u>u.ac.jp/profile/en.bc7a786b0d4b70d1520e17560c007669.html</u>
		URL (website of this laboratory):
		https://home.hiroshima-u.ac.jp/~kashima/en/



Position	Name	Research Subject/ Contact
Associate	KUBOTA Tetsu	Building and urban environmental science for achieving sustainable
Professor		development in developing world
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		u.ac.jp/profile/en.da39c2ab264a8c8e520e17560c007669.html
		URL (website of this laboratory):
		https://home.hiroshima-u.ac.jp/tetsu/index.html
Associate	SHARIFI AYYOOB	Urban Climate Change Mitigation and Adaptation; Nature-based
	SHARIFIATTOOD	
Professor		Solutions; Green Infrastructure; Urban Microclimate, Urban Resilience;
		Sustainable Urban Forms; Assessment Tools.
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		<u>u.ac.jp/profile/en.a63149f0ebc98d0e520e17560c007669.html</u>
Associate	CHIKARAISHI	Urban risk management / Advanced infrastructure planning /Activity-based
Professor	Makoto	analysis
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		<u>u.ac.jp/profile/en.a0a69e8341602e5a520e17560c007669.html</u>
		URL (website of this laboratory):
		https://home.hiroshima-u.ac.jp/~mkt682/
Associate	TRAN Dang Xuan	Development of biomass energy technologies and application to developing
Professor		countries
		Agricultural ecology and development of sustainable agricultural
		technologies
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		u.ac.jp/profile/en.8b3b2c968ff6a086520e17560c007669.html
		URL (website of this laboratory):
		https://home.hiroshima-u.ac.jp/~tdxuan/
Associate	HOSAKA Tetsuro	Research and education on ecology and ecosystem management
Professor		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		u.ac.jp/profile/en.6ffe432301cb646e520e17560c007669.html
		URL (website of this laboratory):
		https://home.hiroshima-u.ac.jp/hosaka3/
Associate	LEE Han Soo	Renewable energy evaluation and management in developing countries,
Professor		Numerical models for coastal hazards • disaster prevention • mitigation,
		Evaluation of climate changes on natural hazards and renewable energy
		environment.
		<for detail="" more=""></for>
		URL (profile):
		http://seeds.office.hiroshima-
		u.ac.jp/profile/en.a0ac8f6169d294e3520e17560c007669.html
		URL (profile of this laboratory):
		https://home.hiroshima-u.ac.jp/leehs/



#### 12. Academic schedule

## 1st YEAR

#### < In case of the schedule in 2020>

#### Fall Semester (October 1 - March 31)

October 1 Entrance Ceremony, Orientation

October 2 – February 8 Classes

Early October International Student Orientation (University-wide)

Mid October Deadline of Class Registration

December 26 - January 5 Winter Vacation

February 9 - March 31 End-of- Academic-Year Holidays

## Spring Semester (April 1 - September 30)

#### **2nd YEAR**

< In case of the schedule in 2020>

Fall Semester (October 1 - March 31)

Spring Semester (April 1 - September 30)

April 1 - April 7 Spring Vacation

April 8 – August 13 Classes

Mid April Deadline of Class Registration

End July Thesis Submission

Mid August Thesis Defense

August 14 - September 30 Summer Vacation

September 18 Graduation Ceremony

#### (Research student)

An examination both written and interview to enroll master's degree course will be held (Late August – Early September).

### 13. Facilities and Cultural activities for International students

# (1) Student Dormitory

"Ikenoue Dormitory" (approx. 180 rooms for international students) and "International House" (60 single, 10 family units) located on the Higashi-Hiroshima campus are available for international students. However, placement in on-campus housing is not guaranteed due to space limitations. In addition, period of residence is limited. The majority of students live in privately-owned apartments.

Please refer to the following URL

https://momiji.hiroshima-u.ac.jp/momiji-top/en/international/housing-for-international-students.html



#### (2) Japanese Language Program

International students can learn Japanese through the following programs in Hiroshima University.

- · Japanese Language/Japanese Affairs
- · English Your Hiroshima Life!! -Japanese Language Class-
- · Nihongo model class

Please refer to the following URL

https://momiji.hiroshima-u.ac.jp/momiji-top/en/international/japaneseclass.html

## (3) Others (Healthcare center, Counseling Support, Homestay Program, Cultural Tour etc.)

- 1) When you're faced with a problem, be it about your studies, your health, or in your everyday life, please feel free to consult with the following organizations.
  - · Morito Institute of Global Higher Education
  - · Health Service Center
  - · Harassment Consultation Office

Please refer to the following URL

https://momiji.hiroshima-u.ac.jp/momiji-top/en/international/advising.html

2) We have a Homestay Program. Foreign students and their families can visit Shobara City in Hiroshima Prefecture, and stay with Japanese families for a couple of days.

#### 14. Information on Job Placement Assistance Service for International Students

We hold job seminar, guidance in the Global career design center, and foreign student can participate. (We hold foreign student-limited guidance twice a year)

We're accepting job-hunting question and consultation in the Global career design center.

## 15. Message for JISR applicants

Within the campus, we have welfare facilities such as various cafeteria, a travel agency office, stores, book shops, and a barber shop. Hiroshima University also has a post office, a university health service center, and a dental clinic in the campus. Health Service Center provides mental counseling service to international students in English.