

國立臺灣師範大學與 日本九州大學碩士雙聯學位



物理學系 劉祥麟
2023年03月27日



合作對象

1. 日本九州大學是本校策略夥伴姊妹校，也是科技與工程學院及理學院核心姊妹校。
2. 日本九州大學綜合理工學研究院
 - (1) 2011年，與上海交通大學及釜山國立大學簽署碩士雙聯學位協議書。
 - (2) 2019年，與臺科大工程學院、電資學院、及應用科技學院簽署碩士雙聯學位協議書。
 - (3) 2023年，與本校科技與工程學院、及理學院簽署碩士雙聯學位協議書。

碩士雙聯學位計畫

雙向雙聯：
每學年
5
個名額

資格

本校科技與工程學院及理學院大四學生或碩一學生

修業期限

在九州大學註冊3學期(免繳學雜費) · 實體修課1學期
與參加1次暑期學校課程

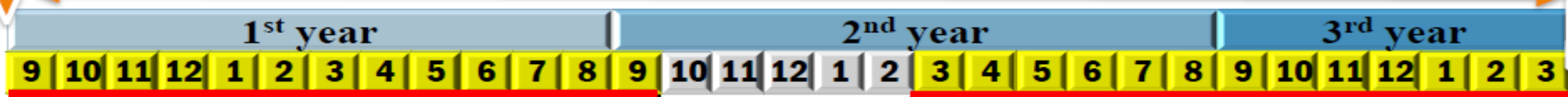
Typical Study Pattern* for a NTNU student to get DD – Option 1

*The credit requirements of home university are omitted.

Enrollment at NTNU (September)

Graduation from NTNU

Enrollment period: 2.5 years



Thesis research works

Thesis research works

- To get credits at NTNU.
- Some credits can be transferred from NTNU to KYU (max =10)

1st Summer school, 3 credits (recommended)

2nd Summer school, 3 credits (recommended)

Thesis Defense (KYU&NTNU)

To get at least 14 credits at KYU (including mandatory subjects)

Thesis (draft) submission

Thesis (final) submission

$$\geq 14 + 10 + 6 = \geq 30$$



Enrollment at KYU (October)

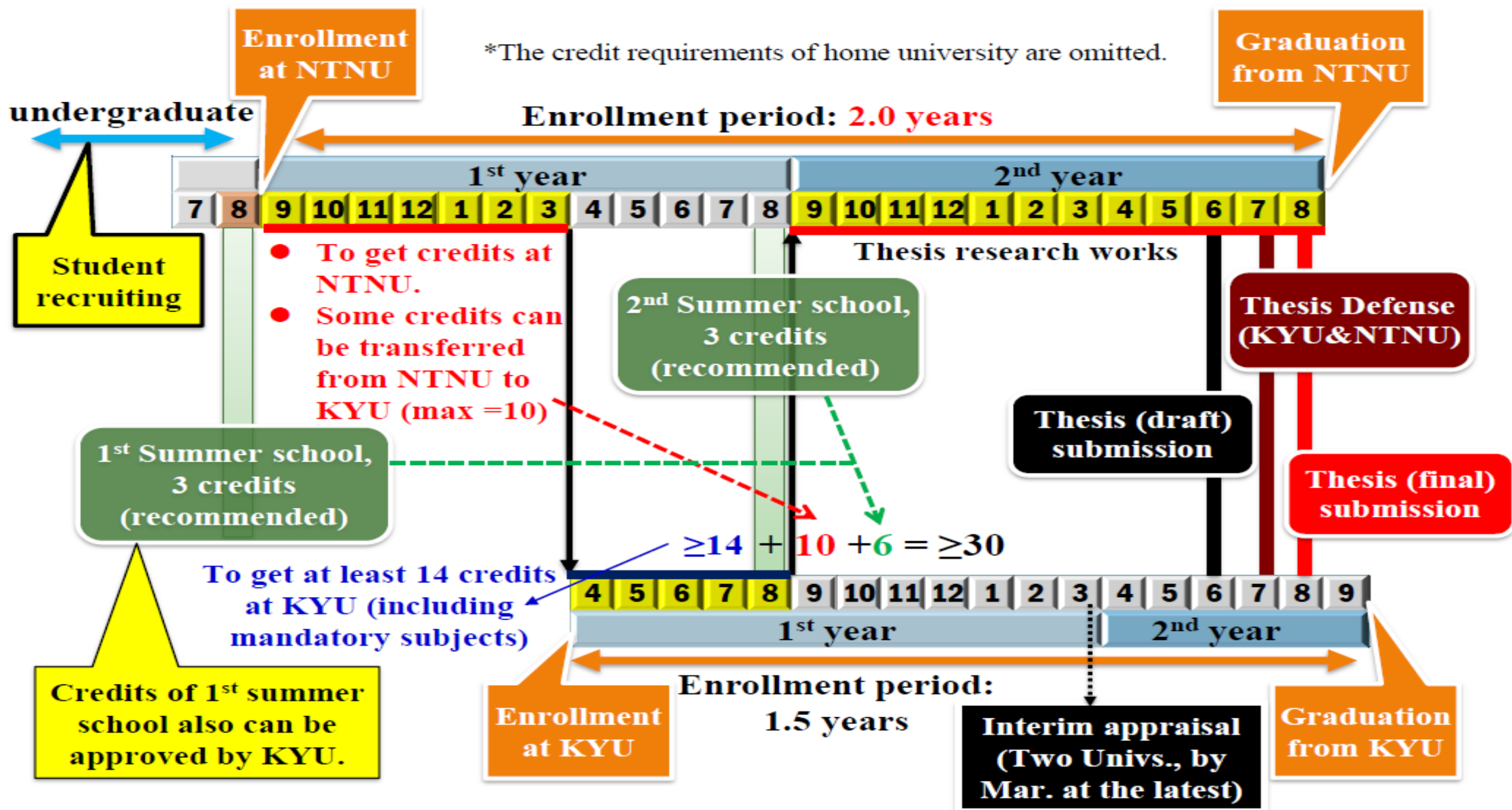
Enrollment period: 1.5 years

Interim appraisal (Two Univs., by Aug. at the latest)

Graduation from KYU

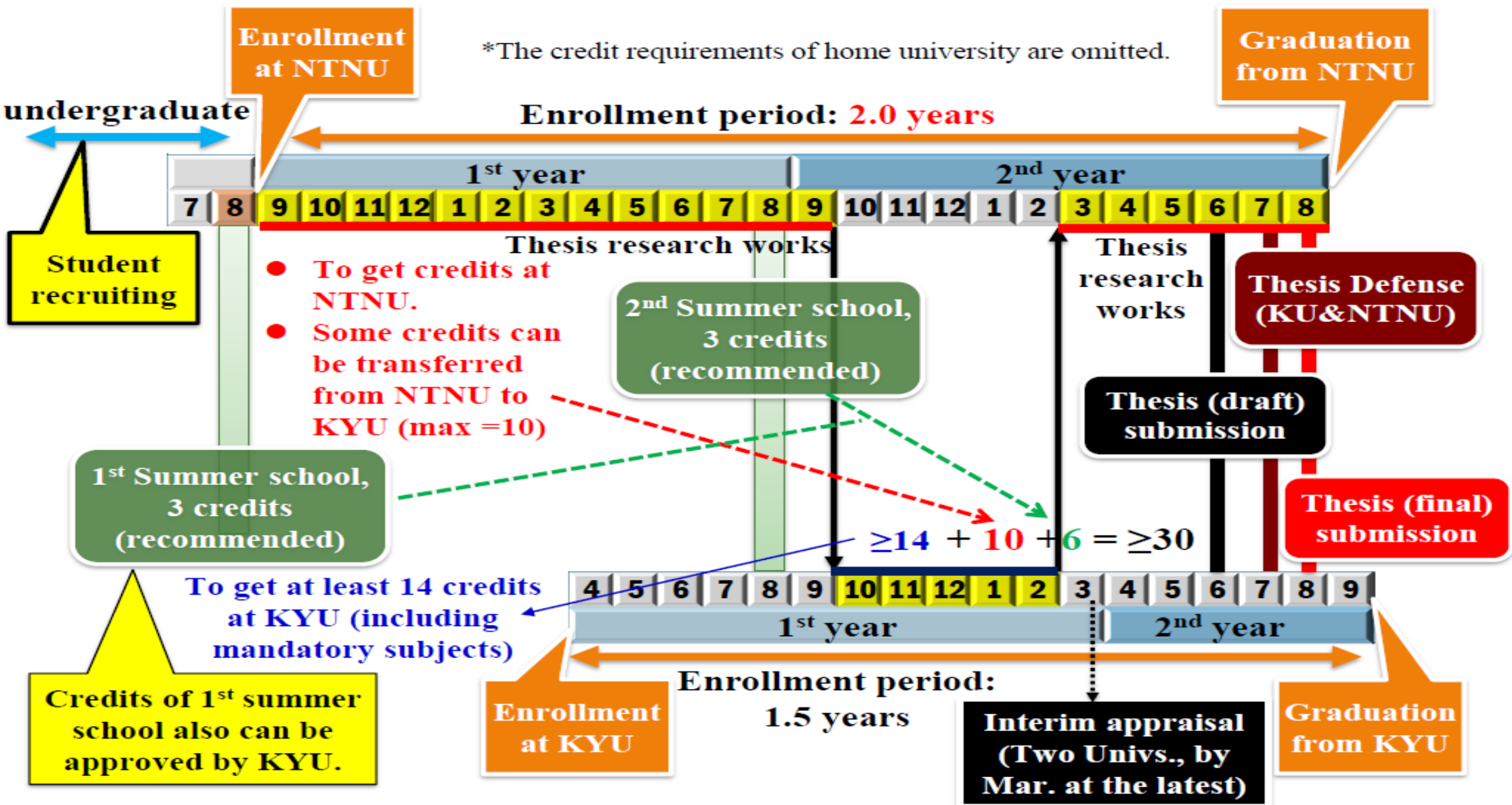
Typical Study Pattern* for a NTNU student to get DD – Option 2

*The credit requirements of home university are omitted.



Typical Study Pattern* for a NTNU student to get DD – Option 3

*The credit requirements of home university are omitted.



碩士雙聯學位計畫 - 九州大學

修課內容

為取得九州大學碩士學位，參與此計畫之本校學生需修習至少**30學分**，且可抵免本校修習研究所專業課程至多**10學分**

碩士學位考試

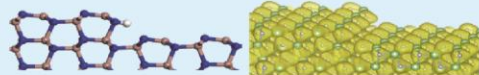
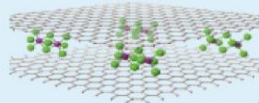
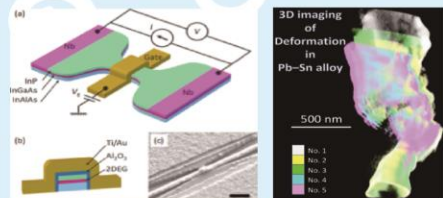
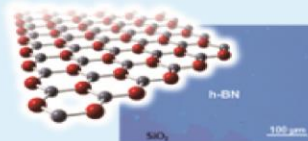
以在本校的研究成果撰寫**40頁以上**的英文版本論文，由本校與九州大學各**3位**教師組成碩士學位考試委員會

九州大學院級課程

Course type	Course title	Credit	Remark	Must-obtain credits
Compulsory	Seminar on Laboratory Safety	1	0.5 day seminar	8
	Experiments on Engineering Sciences	4	Thesis work, given by KU supervisor	
	Exercises on Engineering Sciences	2		
	Essential Points of Interdisciplinary Engineering Sciences	1	Seminar	
Special course for DD students	Communication Skills in English	2	Spring, Fall DD students should take	2
CA-EEST courses (Compulsory selective)	Advanced topics of Energy, Environment and Materials I	2	1 st semester, 2 nd semester	Optional (at least 10)
	Advanced topics of Energy, Environment and Materials II	2	1 st semester, 2 nd semester	
	Research Seminar on Energy and Environmental Science and Engineering	2	1 st semester, 2 nd semester	
	Fundamentals of Energy and Environmental Science and Engineering I	1	1 st Summer School (latter half of August, 1 st year)	
	Fundamentals of Energy and Environmental Science and Engineering II	1		
	Advanced Seminar on Energy and Environmental Science and Engineering I	1		
	Advanced Course on Energy and Environmental Science and Engineering I	1	2 nd Summer School (latter half of August, 2 nd year)	
	Advanced Course on Energy and Environmental Science and Engineering II	1		
Advanced Seminar on Energy and Environmental Science and Engineering II	1			
Subjects for Active Learning	Communication Skills in Japanese	(1)	advanced course (0 credit) in Japanese is also available	
Major courses (Compulsory selective)	Provided by each Major More than 10 courses in total per semester	1 or 2 for each course	following instructions of KU supervisor, if any	

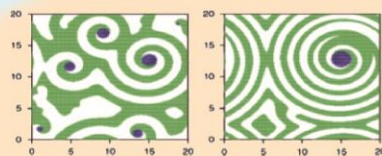
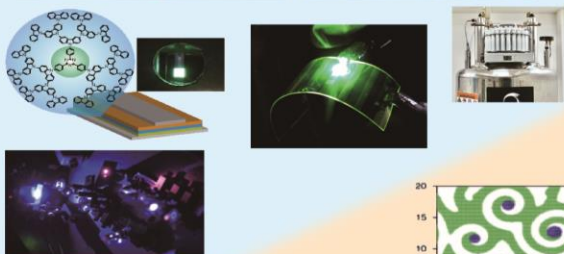
Physical Science and Engineering of Materials and Devices

aims to develop researchers and highly specialized engineers who can act in various fields involving the development of environmentally symbiotic materials through the study and practice of advanced materials design, evaluation, and processing, with materials engineering as its core.



Chemistry and Materials Science

aims to develop researchers and highly specialized engineers, who can be involved in advanced scientific research and the development of advanced environmentally symbiotic technologies, and who can act in fields that border on other fields with chemistry and materials science as its core academic field.

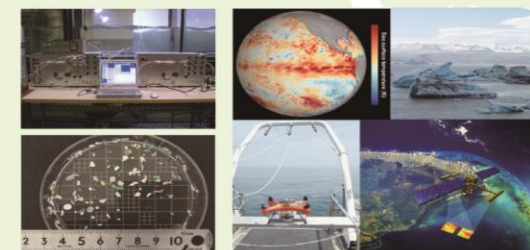
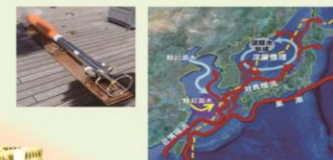


Device Science and Engineering

aims to develop researchers and highly specialized engineers who can act in the advanced field of device development for environmentally symbiotic configurations, making full use of engineering related to the design and fabrication of semiconductor devices, their characterization, and system development.

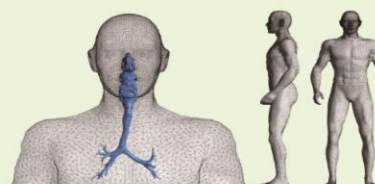


Plasma and Quantum Science and Engineering aims to develop researchers and highly specialized engineers who can act in advanced fields of high-energy fundamentals and applications, from the development of new energy to the development of environmentally symbiotic materials, using plasma science and quantum science.



Earth System Science and Technology

aims to develop researchers and highly specialized engineers who can act globally in solving global environmental problems by acquiring cutting-edge technology in the field that integrates and unifies global environmental science and atmospheric/oceanic engineering.



Mechanical and System Engineering

aims to develop creative researchers and highly specialized engineers who can lead the next generation with a comprehensive and broad perspective through education and research on the construction of sustainable social systems based on mechanical engineering and systems science and engineering.

Material Science

INTERDISCIPLINARY GRADUATE SCHOOL OF ENGINEERING SCIENCES KYUSHU UNIVERSITY

IGSES is committed to graduate education and research in the fields of materials, energy, environment, and their interdisciplinary fields, with the vision of fostering "Engineers and researchers with advanced expertise and problem-solving skills in science and technology for environmental coexistence in materials, energy, environment, and their interdisciplinary fields, and who can play a global role in building a society of sustainable development."

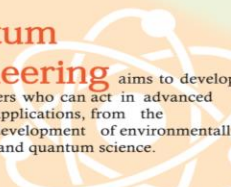
IGSES was founded in 1979 as an independent graduate school without an undergraduate school and is one of the few graduate educational institutions in Japan with a proven track record and tradition of dedication to academic graduate education. The Graduate School of Science and Technology seeks "students with a strong interest in and awareness of environmentally symbiotic science and technology with a focus on materials, energy and the environment, as well as those with sufficient academic ability and desire to study".

<https://www.youtube.com/watch?v=nWj8JXATMnY>



Energy Systems

Environmental Science and Engineering



九州大學院級指導教授

Major	Laboratory	
Science and Engineering of Materials and Devices	1 NAKASHIMA Hideharu · MITSUHARA Masatoshi	Structural Materials Science
	2 HASHIZUME Kenichi	Materials Science and Engineering under Extreme Conditions
	3 WATANABE Hideo	Extreme State Science for Nuclear Materials
Chemistry and Materials Science	4 ALBRECHT Ken	Materials Science for Electrochemistry
	5 YOON Seong Ho · MIYAWAKI Jin	Device Materials Science
Device Science and Engineering	6 HAMAMOTO Kiichi	Opto-Electronics
	7 WANG Dong	Functional Device Engineering
Plasma and Quantum Science and Engineering	8 YAMAMOTO Naoji	Advanced Space Propulsion Engineering
	9 KATAYAMA Kazunari	Energy Chemical Engineering
Mechanical and Systems Engineering	10 ANYOJI Masayuki	High-speed Gas Dynamics
	11 WATANABE Hiroaki	Thermal Science and Energy
	12 MIYAZAKI Takahiko · KYAW Thu	Thermal Energy Conversion Systems
	13 TASHIMA Hiroshi	Engine and Combustion
	14 HAGISHIMA Aya	Urban Environmental Sciences
	15 IKEGAYA Naoki	Urban Environmental Sciences
	16 TANIMOTO Jun	Science on social & environmental complex systems
	17 ITO Kazuhide	Architectural Environmental Engineering
	18 FARZANEH Hooman	Energy and Environmental Systems
	19 HU Changhong	Marine Environment and Energy Engineering
	Earth System Science and Technology	20 SUGIHARA Yuji
21 ELJAMAL Osama		Water and Environmental Engineering

獎學金



申請日本政府獎學金，每月約日幣8萬元



國立臺灣師範大學

1. 申請教育部學海飛颺補助，1學期約新臺幣6萬元
2. 申請本校鼓勵學生赴境外進修補助，1學期約新臺幣3.5萬元

今年申請時程與資料

截止日期

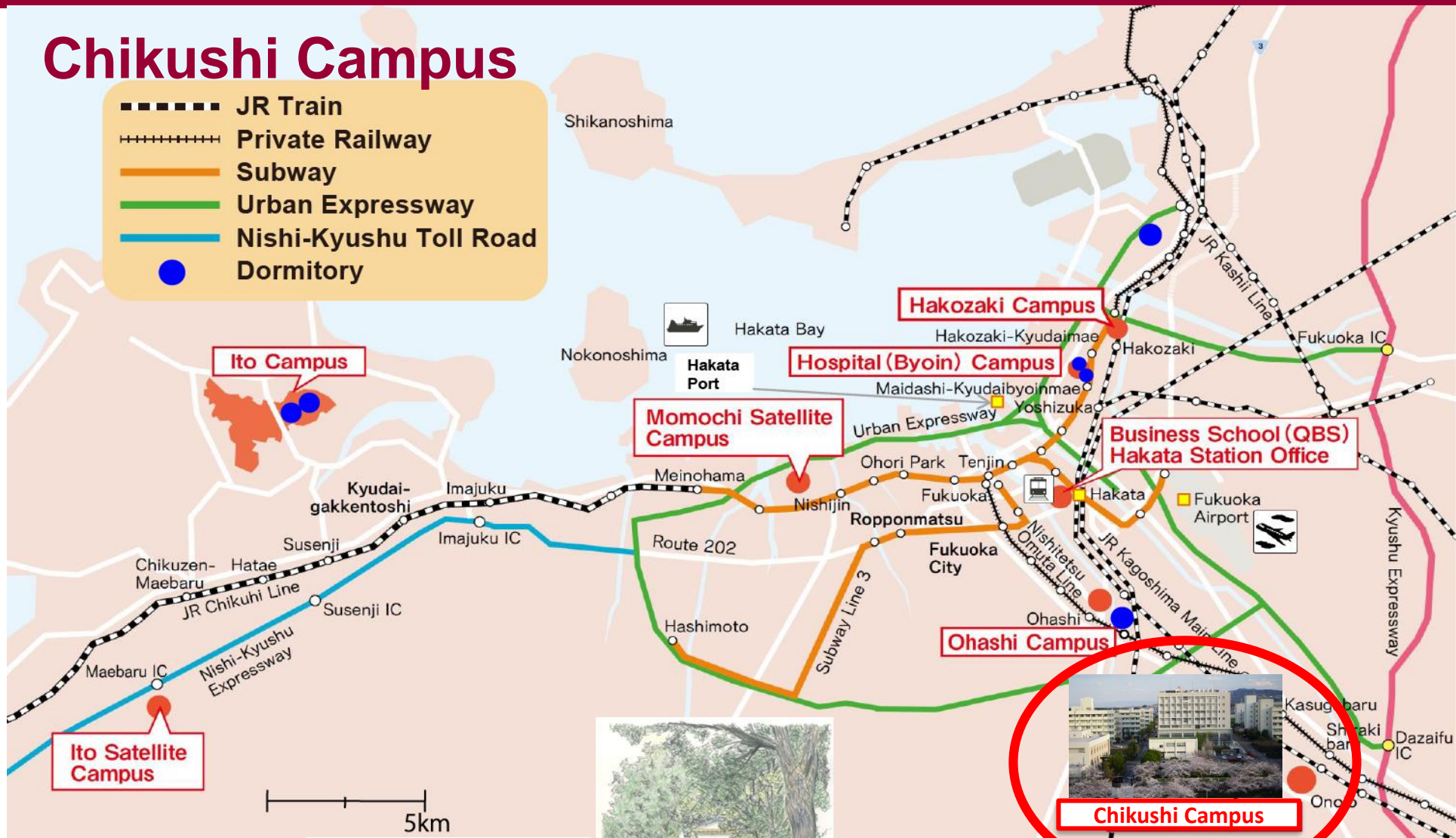
2023年5月14日前寄送申請資料給九州大學，6月26日公告錄取名單

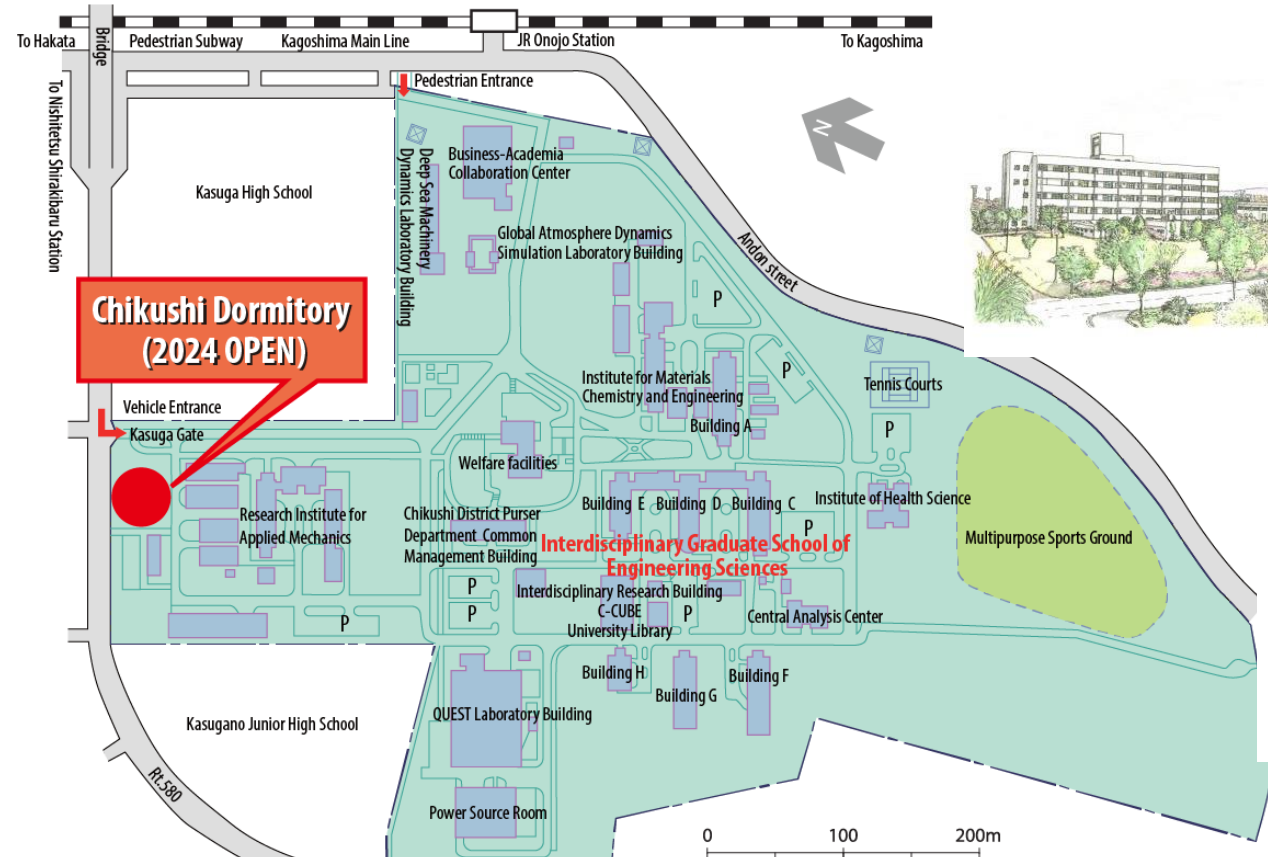
申請資料

1. 申請表
2. 履歷表
3. 志願依序選擇3位九州大學指導教授
4. 學士班學位證書
5. 學士班歷年成績單
6. 修讀碩士雙聯學位動機信函
7. 英語能力證明 (托福、多益等)

Chikushi Campus

- JR Train
- +++++ Private Railway
- Subway
- Urban Expressway
- Nishi-Kyushu Toll Road
- Dormitory





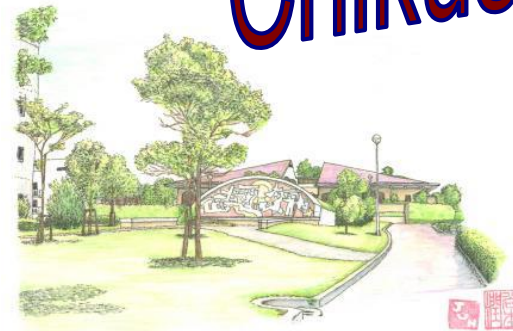
**Chikushi Dormitory
(2024 OPEN)**



60 undergraduate students
600 graduate students
200 academic staffs

Chikushi Campus

From 1980



Introduction of IGSES, Kyushu University

(Interdisciplinary Graduate School of Engineering Sciences)



Introduction of Chikushi Campus



