

**APPLICATION PROCEDURE  
FOR FOREIGN STUDENT ADMISSION TO  
THE GRADUATE SCHOOL OF SCIENCES  
AND TECHNOLOGY FOR INNOVATION**

**MASTER'S PROGRAM  
OCTOBER 2023**

**2023 年 10 月入学**

**山口大学大学院創成科学研究科  
博士前期課程  
学生募集要項  
(外国人留学生特別選抜)**

**THE GRADUATE SCHOOL OF SCIENCES  
AND TECHNOLOGY FOR INNOVATION  
YAMAGUCHI UNIVERSITY**

**山口大学大学院創成科学研究科**

## I. Division and Enrollment Limits

Department	Division	Accepted Enrollments
Science	Fundamental Sciences	Several students in each division
	Earth Science, Biology, and Chemistry	
Engineering	Mechanical Engineering	
	Construction and Environmental Engineering	
	Applied Chemistry	
	Electrical, Electronic, and Information Engineering	
Agriculture	Agricultural Sciences	

## II. Qualifications for Applicants

Applicants must have non-Japanese nationality and meet either of the following requirements.

1. Have completed 16 years' of schooling in countries other than Japan, or be expecting to complete this schooling by September 2023.
2. Be judged by Yamaguchi University to have academic standards equivalent to those who have completed 16 years' of schooling in countries other than Japan.

Note: Applicants seeking to apply for admission according to 2 must have obtained confirmation of the relevant qualification before applying. Please contact the appropriate Admission Office (III.4.).

## III. Application Procedure

**\*Applications made without first consulting with the prospective academic adviser will be denied.**

### 1. Application Period

Application documents must be submitted to the appropriate Admission Office during the following periods.

Department	Application Period
Science	July 3 (Mon.) through July 7 (Fri.), 2023
Engineering	June 28 (Wed.) through June 30 (Fri.), 2023
Agriculture	June 26 (Mon.) through June 30 (Fri.), 2023

Admission offices are open Monday to Friday, 8:30 – 17:15

## 2. Application Documents

Submit the following documents completed in either Japanese or English.

Application for Admission	Fill out the prescribed form.
Identification Card for Examinations (Photograph Card)	Fill out the prescribed form and paste a photograph taken within the last 3 months (head and shoulders, hatless, facing forward, 4cm × 3cm) on the Photograph Card.
Graduation Certificate	Certificate of graduation or expected graduation from the university
Academic Transcript	Official transcript from the university
Recommendation Letter	It is advised that a recommendation letter written by the last academic adviser be submitted.
Personal History	Fill in the prescribed form.
Research Plan	Write details of the subject, aim, method, and schedule for the intended research plan on the prescribed form. See Note 1.
Application Fee	30,000 yen Fill in the postal transfer form and send the fee to the specified account. Paste the receipt on the reverse side of the application form. See Note 2.
Mailing Label	Use the prescribed form.
Others	1. For the Science department, attach any documents that prove the applicant's proficiency in Japanese. For the Engineering department, attach any documents that prove the applicant's proficiency in Japanese or English. For the Agriculture department, attach any documents that prove the applicant's proficiency in English. 2. Certificate of visa status (e. g. photocopy of passport)

Note 1: The research plan should be about 800 characters in length in Japanese (or 200 words in English). Use the prescribed form. It is recommended that this document be typed using a computer.

Note 2: Japanese Government (MEXT) Scholarship Students are exempted from the application fee.

The personal information collected through the application procedure is not used for any other purpose and will not be provided to any third parties without the applicant's consent.

## 3. Application

All application documents must reach the Admission Office during the application period. If mailed, they should be sent by registered express mail with "Application for Foreign Student Admission to the Master's Program" written in red on the envelope.

#### 4. Admission Offices

Open Monday to Friday, 8:30 – 17:15

Science Department Admission Office	Faculty of Science, Yamaguchi University 1677-1 Yoshida, Yamaguchi 753-8512 Japan TEL: (083)933-5215 FAX: (083)933-5768 Email: hc135@yamaguchi-u.ac.jp
Engineering Department Admission Office	Faculty of Engineering, Yamaguchi University 2-16-1 Tokiwadai, Ube 755-8611 Japan TEL: (0836)85-9012 FAX: (0836)85-9019 Email: en304@yamaguchi-u.ac.jp
Agriculture Department Admission Office	Faculty of Agriculture, Yamaguchi University 1677-1 Yoshida, Yamaguchi 753-8515, Japan TEL: (083)933-5811 FAX: (083)933-5812 E-mail: ag295@yamaguchi-u.ac.jp

#### 5. Other Notices

- (1) Before applying, contact your prospective academic adviser about the intended research and study program.
- (2) The application documents received will not be returned.
- (3) Changes to application form content cannot be made after submitting the application.
- (4) For further inquiries concerning admission, please contact the “Admission Offices” as noted in 4.

### IV. Screening

#### 1. Examination and Interview

Department	Division	Examination Subjects	Interview
Science	Fundamental Sciences (Mathematical Sciences)		Interview (See Note 1)
	Fundamental Sciences (Physics)	Major Subjects	
	Fundamental Sciences (Informatics)	Major Subjects	
	Earth Science, Biology, and Chemistry (Biology)	Major Subjects	
	Earth Science, Biology, and Chemistry (Chemistry)	Japanese and English Major Subjects	
	Earth Science, Biology, and Chemistry (Earth Sciences)		
Engineering	Mechanical Engineering	Mathematics (See Note 2,3)	
	Construction and Environmental Engineering	Major Subjects	
	Applied Chemistry (Materials Chemistry, Bioengineering and Chemistry Engineering)	Mathematics (See Note 2) Major Subjects (Oral examination) (See Note 4)	
	Applied Chemistry (Environmental Chemistry and Chemical Engineering)	Mathematics (See Note 2)	
	Electrical, Electronic, and Information Engineering	Major Subjects	
Agriculture	Agricultural Sciences	Major Subjects	

Note 1: Interviews concerning 1) the intended research subject and 2) the objective and motivation for graduate study are held with each applicant by the relevant division.

Applicant's language skills (Japanese or English) are evaluated in the interview.

Note 2: The method and range of examination for Mathematics are the same as those for "Engineering Mathematics Test".

<http://www.aemat.jp/exam/>

Note 3: In the Division of Construction and Environmental Engineering (Architecture Course), the examinees who select Architectural Planning as a major do not need to take Mathematics.

Note 4: In the Division of Applied Chemistry (Materials Chemistry, Bioengineering and Chemistry Engineering), the examinees take Oral examination.

## 2. Examination Code

Department	Division	Course	Examination Code
Science	Fundamental Sciences	Mathematical Sciences	41
		Physics	42
		Informatics	43
	Earth Science, Biology, and Chemistry	Biology	44
		Chemistry	45
		Earth Sciences	46
Engineering	Mechanical Engineering	Biomedical Engineering	55
		Aerospace and Thermal Engineering	55
		Mechanosystems Design Engineering	55
	Construction and Environmental Engineering	Civil and Environmental Engineering	56
		Civil and Environmental Engineering International	56
		Environmental System Engineering	52
		Architecture	57
	Applied Chemistry	Materials Chemistry	51
		Bioengineering and Chemistry Engineering	51
		Environmental Chemistry and Chemical Engineering	52
	Electrical, Electronic, and Information Engineering	Electronic Devices Engineering	53
		Electronic Systems Engineering	53
		Intelligent Systems and Media Engineering	54
		Information Systems Engineering	54
Agriculture	Agricultural Sciences	Agriculture	61
		Applied Bioscience	61

Note 1: Choose one examination code and write the code on the Application Form.

Note 2: Examinations must be supervised by your academic adviser.

### 3. Examinations in Major Subjects

Department	Code	Major Subject Examinations		Memo
Science	41			
	42	Select four questions from the categories listed below: Mechanics, Electromagnetism, Quantum Mechanics, Thermodynamics and Statistical Physics, Physical Mathematics, General Physics		
	43	Questions are based on the subject areas of Basic Mathematics, Applied Mathematics, and Basic Information Science; two questions in the area of Basic Mathematics are obligatory. Three other questions are based on the subject areas of Applied Mathematics, and Basic Information Science, from which two questions must be answered.		
	44	Select four questions from Biology		
	45	Analytical Chemistry and Inorganic Chemistry, Organic Chemistry, Quantum Chemistry and Physical Chemistry		Bring a function calculator.
	46			
Engineering	55	Machine Dynamics and Classical Control Theory, Hydraulics, Thermodynamics, and Strength of Materials	Select one subject from the four.	Bring a function calculator.
	56	Structural Mechanics, Soil Mechanics and Hydraulics	Select one subject from the three.	Bring a function calculator.
	51	Subjects A: Physical Chemistry, Inorganic Chemistry, and Chemical Engineering, Subjects B: Organic Chemistry, Polymer Chemistry, and Biochemistry	Select one of each subjects (A or B) for taking the exam. Indicate A or B on your application form.	Oral examination
	53	Electromagnetics and Electrical Circuit	Requiring two subjects	
	54	Data structures and algorithms, Programming (C language), Computer architecture (includes Boolean Algebra, Logic Design, Logic Circuit, and Computer System)	Requiring three subjects	
	57	Building Structures, Building Environments, Architectural Planning	Select one subject from the three.	Bring a function calculator.
Agriculture	52	Physical Chemistry, Organic Chemistry, Chemical Engineering (Transport Phenomena and Unit Operation) and Purification Technology for Environment	Select one subject from the four.	Bring a function calculator.
	61	※ Major subjects must be different in each supervisor. The range of an examination is therefore based on the major subject of prospective supervisor. Refer to prospective supervisor's teaching and research field on pages 21-22.		

#### 4. Examination Dates

[Science]: Fundamental Sciences, Earth Science, Biology, and Chemistry

Examination Dates	Examination Subjects	Time
August 8 (Thu.), 2023	Major Subjects, Japanese and English	9:00 – 12:00
	Interview	13:00 –

[Engineering]: Mechanical Engineering, Construction and Environmental Engineering, Applied Chemistry (Environmental Chemistry and Chemical Engineering), Electrical, Electronic, and Information Engineering

Examination Dates	Examination Subjects	Time
August 9 (Wed.), 2023	Mathematics	10:30 – 12:00
	Major Subjects	13:00 –
	Interview	16:40 –

[Engineering]: Applied Chemistry (Materials Chemistry, Bioengineering and Chemistry Engineering)

Examination Dates	Examination Subjects	Time
August 9 (Wed.), 2023	Mathematics	10:30 – 12:00
	Major Subjects (Oral examination)	13:00 –
	Interview	16:40 –

[Agriculture]: Agricultural Sciences

Examination Dates	Examination Subjects	Time
August 3 (Thu.), 2023	Major Subjects	14:00 – 15:30
	Interview	16:30 –

#### 5. Examination Sites

See the map on the back cover.

- (1) Science Department: Faculty of Science, Yamaguchi University; 1677-1 Yoshida, Yamaguchi
- (2) Engineering Department: Faculty of Engineering, Yamaguchi University; 2-16-1 Tokiwadai, Ube
- (3) Agriculture Department: Faculty of Agriculture, Yamaguchi University 1677-1 Yoshida, Yamaguchi

### V. Announcement of Results

Department	Announcement of Results
Science	August 30 (Wed.), 2023 12 : 00
Agriculture	August 28 (Mon.), 2023 12 : 00

The examination results will be announced on the bulletin board of the Graduate School of Sciences and Technology for Innovation Yamaguchi University and also is mailed to successful applicants.

Department	Announcement of Results
Engineering	August 30 (Wed.), 2023 12 : 00

The examination results will be posted on the Graduate School of Sciences and Innovation website , and also is mailed to successful applicants.

## VI. Admission Procedure

### 1. Period:

The Admission forms must be submitted during the following periods.

Department	Admission Procedure
Science	September 4 (Mon.), 2023 through September 6 (Wed.), 2023
Engineering	September 4 (Mon.), 2023 through September 6 (Wed.), 2023
Agriculture	September 4 (Mon.), 2023 through September 6 (Wed.), 2023

### 2. Admission Fee: 282,000 yen

Note1 : The Admission fee, once paid, will not be refunded even if the applicant is denied admission for any reason.

Note2 : In the event that Yamaguchi University decides to revise the admission fee for 2023 entrants after the publication of this document, the revised amount will be applied.

## VII. Others

### 1. Date of Admission

October 1, 2023

### 2. Master's Program: 2 years

### 3. Tuition Fee

First Semester (April – September): 267,900 yen by the end of May

Second Semester (October – March): 267,900 yen by the end of November

Note 1: In the event that Yamaguchi University decides to revise the tuition fee for 2023 entrants after the publication of this document, the revised amounts will be applied.

Note 2: If tuition fees are revised while a student is in a program, the new tuition amount must be paid.



## I. 専攻及び募集人員

区 分	専 攻	募集人員
理 学 系	基 盤 科 学 系 専 攻	若干名
	地 球 圏 生 命 物 質 科 学 系 専 攻	
工 学 系	機 械 工 学 系 専 攻	
	建 設 環 境 系 専 攻	
	化 学 系 専 攻	
	電 気 電 子 情 報 系 専 攻	
農 学 系	農 学 系 専 攻	

## II. 出 願 資 格

日本国籍を有しないで、次のいずれかの要件を満たす者。

1. 外国において学校教育における16年の課程を修了した者、又は2023年9月までに修了見込みの者
2. 本学において、外国の学校教育における16年以上の課程を修了した者と同等以上の学力があると認めた者

(注) 出願資格2. により出願を希望する者は、あらかじめ出願資格の認定を受けて出願してください。

出願資格に関する詳細は「Ⅲ. 4. 提出先」に問い合わせてください。

## III. 出 願 手 続

※出願期間開始日までに研究指導を希望する教員に事前相談を行っていない場合、出願を認めないことがあります。

### 1. 出願期間

区分	出 願 期 間
理学系	2023年7月3日(月) ～ 2023年7月7日(金) 必着
工学系	2023年6月28日(水) ～ 2023年6月30日(金) 必着
農学系	2023年6月26日(月) ～ 2023年6月30日(金) 必着

(注) 持参する場合は、平日8時30分から17時15分まで受け付けます。

## 2. 出願書類

下記の出願書類を、日本語または英語で作成してください。

入 学 志 願 票	本研究科所定の用紙（本募集要項とじ込み）に、必要事項を記入してください。
写 真 票 受 験 票	本研究科所定の用紙（本募集要項とじ込み）に、必要事項を記入してください。 写真票の所定欄に、出願前3ヶ月以内に撮影した上半身・無帽・正面向きの写真（4cm×3cm）を貼ってください。
卒 業（見 込） 証 明 書	出身大学の卒業（見込）証明書
成 績 証 明 書	出身大学が作成したもの
推 薦 書	出身大学の指導教員の推薦書があることが望ましい。
履 歴 書	本研究科所定の用紙（本募集要項とじ込み）に、必要事項を記入してください。
研 究 計 画 書	本研究科所定の用紙（本募集要項とじ込み）に、研究を希望するテーマ、その目的及び研究方法などを記入してください。（注1）
検 定 料	30,000円 本研究科所定の払込み用紙に必要事項を記入のうえ、最寄りのゆうちょ銀行（郵便局）で本学指定の口座に払い込んだ後、ゆうちょ銀行（郵便局）から受け取った振替払込受付証明書（お客さま用）を所定欄に貼り付けてください。（注2）
あ て 名 票	本研究科所定の用紙（本募集要項とじ込み）に必要事項を記入してください。
そ の 他	1. 理学系の志願者は、日本語能力を証明するものを添付してください。 工学系の志願者は、日本語または英語の能力を証明するものを添付してください。 農学系の志願者は、英語の能力を証明するものを添付してください。 2. 旅券の写し等、在留資格を証明する書類を添付してください。

（注1）研究計画書は、本研究科所定の用紙に日本語では800字程度、英語では200語程度で記入してください。なお、できるだけパソコン等を使用し作成してください。

（注2）国費外国人留学生（日本政府から奨学金を支給されている者）は、検定料を免除します。

出願書類等については、本研究科入学選抜において必要なためご提出いただくものであり、これによって得た個人情報を、個人情報の保護に関する法律第18条第3項各号及び第27条第1項各号に規定されている場合を除き、出願者本人の同意を得ることなく他の目的で使用又は第三者に提供することはありません。

## 3. 出願方法

入学志願者は、出願期間中に書類を下記「4. 提出先」に提出してください。郵送の場合は、必ず「特定記録郵便速達」とし、封筒の表に「博士前期課程出願書類（外国人留学生）在中」と朱書してください。

## 4. 提出先

平日 8:30 ～ 17:15

理学系	山口大学理学部学務係	〒753-8512 山口市吉田1 6 7 7 - 1 電話 (083) 933-5215 FAX (083) 933-5768 E-mail : hc135@yamaguchi-u.ac.jp
工学系	山口大学工学部学務課入試係	〒755-8611 宇部市常盤台2 丁目 1 6 - 1 電話 (0836) 85-9012 FAX (0836) 85-9019 E-mail : en304@yamaguchi-u.ac.jp
農学系	山口大学農学部学務係	〒753-8515 山口市吉田1 6 7 7 - 1 電話 (083) 933-5811 FAX (083) 933-5812 E-mail : ag295@yamaguchi-u.ac.jp

## 5. 注意事項

- (1) 出願前に研究指導を希望する教員と研究内容、履修方法等について相談してください。
- (2) いったん受理した出願書類は、返還しません。
- (3) 出願手続き後の出願書類について、内容の変更は認めません。
- (4) 入学試験に関する照会は、9ページの「4. 提出先」にお問い合わせください。

## Ⅳ. 選 抜 方 法

### 1. 学力検査等

区 分	専 攻	学力検査	面 接
理学系	基盤科学系専攻（数理科学コース）	課さない。	面接 (注1)
	基盤科学系専攻（物理学コース）	専門科目	
	基盤科学系専攻（情報科学コース）	専門科目	
	地球圏生命物質科学系専攻（生物学コース）	専門科目	
	地球圏生命物質科学系専攻（化学コース）	語学(日本語, 英語), 専門科目	
	地球圏生命物質科学系専攻（地球科学コース）	課さない。	
工学系	機械工学系専攻	数学(注2,3),	
	建設環境系専攻	専門科目	
	化学系専攻 (物質化学コース, 生命化学コース)	数学(注2), 専門科目(口頭試問)(注4)	
	化学系専攻 (環境化学・化学工学コース)	数学(注2), 専門科目	
	電気電子情報系専攻		
農学系	農学系専攻	専門科目	

(注1) 面接は、各専攻において、学習意欲、希望する研究課題等について行います。

なお、面接では語学力（日本語または英語）についても評価します。

(注2) 数学の出題範囲及び出題形式は、工学系数学統一試験に準じた出題範囲及び出題形式です。  
工学系数学統一試験については以下のHPを参照してください。

<http://www.aemat.jp/exam/>

(注3) 建設環境系専攻（建築学コース）においては、専門科目において建築計画系を選択した受験者は、数学を課しません。

(注4) 化学系専攻の物質化学コース及び生命化学コースの専門科目は、口頭試問により学力を問います。

### 2. 学力検査（専門科目）の受験区分コード

区 分	専 攻	コース	受験区分コード
理学系	基 盤 科 学 系 専 攻	数理科学コース	41
		物理学コース	42
		情報科学コース	43
	地 球 圏 生 命 物 質 科 学 系 専 攻	生物学コース	44
		化学コース	45
		地球科学コース	46
工学系	機 械 工 学 系 専 攻	応用医工学コース	55
		航空宇宙エネルギーコース	55
		メカノシステムデザインコース	55

区 分	専 攻	コース	受験区分コード
工学系	建 設 環 境 系 専 攻	社会建設工学コース	56
		国際建設技術コース	56
		環境システム工学コース	52
		建築学コース	57
	化 学 系 専 攻	物質化学コース	51
		生命化学コース	51
		環境化学・化学工学コース	52
	電 気 電 子 情 報 系 専 攻	電子デバイス工学コース	53
		電子システム工学コース	53
		知能情報工学コース	54
		情報システム工学コース	54
農学系	農 学 系 専 攻	農学コース	61
		生命科学コース	61

(注1) 受験する専攻・コースの受験区分コードから1つの受験区分を選択し受験することとなります。

(注2) 学力検査(専門科目)は、志望する教育研究分野の教員と事前に相談し、志願票に受験区分コードを記入してください。

### 3. 学力検査(専門科目)の内容

区分	受験区分コード	専 門 科 目	備 考
理学系	41		
	42	力学，電磁気学，量子力学，統計熱力学，物理数学，物理一般から4問を選択して解答する。	
	43	基礎数学，応用数学，情報基礎の各分野から出題する。基礎数学分野から出題する2問は必修，応用数学分野と情報基礎分野からは3問出題し，その中から2問を選択して解答する。	
	44	生物学の分野から4問を選択して解答する。	
	45	分析・無機化学，有機化学，物理・量子化学	関数電卓持参
	46		
工学系	55	機械力学及び制御工学（古典），水力学，熱力学，材料力学	4分野の中から試験時1分野選択 関数電卓持参
	56	構造力学，土質力学，水理学	3分野の中から試験時1分野選択 関数電卓持参
	51	領域A：物理化学，無機化学，化学工学 領域B：有機化学，高分子化学，生物化学	2領域のうち出願時に1領域選択 出願時に選択した領域について口頭試問で学力を問う
	53	電磁気学，電気回路	2分野必修
	54	データ構造とアルゴリズム，プログラミング（C言語），計算機アーキテクチャ（ブール代数，論理設計，論理回路，電子計算機を含む。）	3分野必修
	57	建築構造系，建築環境系，建築計画系	3分野の中から1分野選択 関数電卓持参
	52	物理化学，有機化学，化学工学（移動現象・単位操作），環境浄化技術	4分野の中から試験時1分野選択 関数電卓持参
農学系	61	※農学系専攻では，希望する指導教員によって専門科目の内容が異なります。その範囲は希望する指導教員の研究分野から出題します。詳しくは「21～22ページの教育研究分野」を参考にしてください。	

#### 4. 試験日時

[理学系]：基盤科学系専攻，地球圏生命物質科学系専攻

期 日	試験科目	時 間
2023年8月8日（火）	専門科目，語学	9：00 ～ 12：00
	面 接	13：00 ～

[工学系]：機械工学系専攻，建設環境系専攻，化学系専攻（環境化学・化学工学コース），  
電気電子情報系専攻

期 日	試験科目	時 間
2023年8月9日（水）	数 学	10：30 ～ 12：00
	専門科目	13：00 ～
	面 接	16：40 ～

[工学系]：化学系専攻（物質化学コース，生命化学コース）

期 日	試験科目	時 間
2023年8月9日（水）	数 学	10：30 ～ 12：00
	専門科目（口頭試問）	13：00 ～
	面 接	16：40 ～

[農学系]：農学系専攻

期 日	試験科目	時 間
2023年8月3日（木）	専門科目	14：00 ～ 15：30
	面 接	16：30 ～

#### 5. 試験場

試験場及び試験場への道順は，裏表紙の案内図を参照してください。

- (1) 理学系 山口大学理学部 山口市吉田1677-1
- (2) 工学系 山口大学工学部 宇部市常盤台2丁目16-1
- (3) 農学系 山口大学農学部 山口市吉田1677-1

### V. 合 格 者 発 表

区 分	合格発表日
理学系	2023年8月30日（水） 正午予定
農学系	2023年8月28日（月） 正午予定

合格者受験番号を本研究科（理学部及び農学部）に掲示するとともに，本人に郵便で通知します。なお，電話による照会には一切応じません。

区 分	合格発表日
工学系	2023年8月30日（水） 正午予定

創成科学研究科ホームページに合格者の受験番号を掲載するとともに，合格者に合格通知書を郵送します。なお，電話による照会には一切応じません。

## Ⅵ. 入 学 手 続

### 1. 入学手続期間

区 分	入学手続
理学系	2023年9月4日（月）～ 9月6日（水）
工学系	2023年9月4日（月）～ 9月6日（水）
農学系	2023年9月4日（月）～ 9月6日（水）

### 2. 入学料：282,000円

（注1）入学手続を行った者が入学を辞退したときは、納付済の入学料はいかなる理由があっても返還しません。

（注2）本募集要項公表後、2023年度入学者に係る入学料の改定を本学が決定した場合は、改定後の額となります。また、既に納入されていた場合は、改定額との差額を納入していただくことになります。

## Ⅶ. そ の 他

### 1. 入学年月日

2023年10月1日

### 2. 博士前期課程修学年数 2年

### 3. 授業料 前期分（4～9月） 267,900円（納付期限：5月末）

後期分（10～3月） 267,900円（納付期限：11月末）

（注1）本募集要項公表後、2023年度入学者に係る授業料の改定を本学が決定した場合は、改定後の額を納入していただきます。また、既に納入されていた場合は、改定額との差額を納入していただきます。

（注2）在学中に授業料が改定された場合、改定後の額を納入していただくことになります。

(博士前期課程) 基盤科学系専攻 [Division of Fundamental Sciences]

Course	Research Field	Academic Staff	
Mathematical Sciences	Analytic Number Theory, Fourier Analysis, and Partial Differential Equations.	Professor	Isao Kiuchi
		Professor	Fumihiko Hirose
		Associate Professor	Yasushi Hataya
		Assistant Professor	Chiharu Kosugi
	Commutative Ring Theory, Noncommutative Ring Theory, Module Theory, and Number Theory.	Professor	Isao Kikumasa
		Associate Professor	Yosuke Kuratomi
		Associate Professor	Makoto Minamide
		Associate Professor	Mayu Tsukamoto
	Geometry of Manifolds, Geometric Analysis, Variational Problems on Manifolds, Geodesic Theory.	Professor	Nobumitsu Nakauchi
	Differential Geometry, Geometric Analysis, Global Analysis	Associate Professor	Homare Tadano
	Topology, Knot Theory	Professor	Yasuyuki Miyazawa
	Complex Analysis, Conformal Mappings, Bloch and Landau Constants.	Professor	Hiroshi Yanagihara
	Algebraic Combinatorics, Discrete Geometry	Associate Professor	Hirotake Kurihara
	Mathematical Approaches to Hydrodynamics and Electrodynamics.	Professor	Takahiro Nishiyama
	Fundamentals and Applications of Analytic Functions of One Complex Variable.	Associate Professor	Ikkei Hotta
	Teichmüller theory for non-compact Riemann surfaces	Associate Professor	Masahiro Yanagishita
	Möbius Geometry, Kleinian groups	Associate Professor	Sun Lijie
	Groups, Partially ordered sets	Professor	Nobuo Iiyori
	Computer Algebras	Professor	Takuya Kitamoto
	Topology, Knot Theory	Associate Professor	Kai Ishihara
	Operator Algebras	Associate Professor	Kouhei Izuchi
Physics	Prehomogeneous vector space	Associate Professor	Shinichi Kasai
	Structure and phase transition in long-chained molecules and polymers	Professor	Koji Nozaki
	The electronic structure of organic molecules in solution and soft materials	Associate Professor	Yuka Horikawa
	Study on magnetism, transport properties and phase transition in strongly correlated electrons system	Associate Professor	Tetsuya Fujiwara
	Structural Study on Physical Properties and Phase Transitions in Dielectrics, Ferroelectrics and Ferroelastics	Associate Professor	Hironobu Kasano
	Observational study of astrophysics based on analytical approach of electromagnetic signal	Professor	Kenta Fujisawa (The Research Institute for Time Studies)
		Professor	Kotaro Niinuma
		Associate Professor	Kazhito Motogi
	Particle Cosmology and Field Theoretical Analyses of Interacting Many-Particle Systems	Professor	Kiyoshi Shiraishi
	Theoretical study of strongly gravitating objects and creation and evolution of universes Study of sports movement in physics	Professor	Nobuyuki Sakai
Informatics	Theoretical study on cosmology and tests of gravity	Associate Professor	Ryo Saito
	Brain Computing, Biomechanics, Skill Science	Professor	Jun Nishii
	Intelligent Image Processing and Computational Photography	Professor	Noriaki Suetake
	Theoretical study of mathematical models for information processing	Professor	Masaki Kawamura
	Computer simulation of soft matter	Professor	Naohito Urakami
	Machine Learning · Statistical Data Analysis and Intelligent Image Processing Systems	Associate Professor	Xian-Hua Han
	Coding theory and its applications	Associate Professor	Takayuki Nozaki
	Theoretical study of dynamics of multi-agent systems	Associate Professor	Masahiko Ueda
	Large-scale numerical simulation of neural network models	Assistant Professor	Taira Kobayashi



## (博士前期課程) 地球圏生命物質科学系専攻 [Division of Earth Science, Biology, and Chemistry]

Course	Research Field	Academic Staff
Biology	Study on circadian rhythms and chronotherapy.	Professor Makoto Akashi (The Research Institute for Time Studies)
	Study on behavior and ciliary functions in Ciliates.	Professor Manabu Hori
	Study on cell motility under light microscopy.	Professor Yoshiaki Iwadate
	Study on environmental response and metabolism in microalgae.	Professor Osami Misumi
	Study on the physiological mechanisms concerning the environmental adaptation and phenotypic plasticity in insects.	Professor Akira Yamanaka
	Study on cell cycle and organelle construction during early embryogenesis of <i>Xenopus</i> .	Associate Professor Shuichi Ueno
	Study on light sensing and signaling in plants	Associate Professor Atsushi Takemiya
	Study on size scaling of intracellular organelles	Associate Professor Yuki Hara
	Study on evolution of behavior, morphology and life histories in insects.	Associate Professor Wataru Kojima
	Study on the biodiversity of meiofauna	Assistant Professor Shinta Fujimoto
	Study on genetic mechanisms underlying insect morphological and behavioral traits.	Assistant Professor Ayumi Kudo
Chemistry	Education and study on development and application of organic photochemical or electron-transfer reactions toward functional materials.	Professor Katsuya Ishiguro
	Education and study of the novel organic compounds for synthesis and properties.	Associate Professor Hiroyuki Fujii
	Solid state chemistry of molecular crystals and assemblies.	Associate Professor Ryo Tsunashima
	Photo-functional organic materials.	Professor Jun Kawamata
	Electronic Structure and Optical Property of Molecules.	Associate Professor Seiji Tani
	Low dimensional compound based functional material.	Associate Professor Yasutaka Suzuki
	Education and study about physical property and electrochemical reactivity at a solid surface.	Professor Kensuke Honda
	Physical properties and reactivity of photo-functional inorganic materials.	Professor Suzuko Yamazaki
	Studies on Optical and Spectroscopic Properties of Organic/Inorganic Hybrid Nanomaterials.	Associate Professor Kenta Adachi
	Study of molecular recognitionable polymers.	Associate Professor Isamu Fujiwara
	Construction of novel organic molecules comprised of typical element and nonalternant conjugation.	Professor Toshihiro Murafuji
	Development of new molecular transformations to streamline organic synthesis.	Associate Professor Shin Kamijyo
	Solid state chemistry and function of metal complexes	Assistant Professor Atsuko Suzuki
Earth Sciences	Petrogenesis of the small-scale plutonic bodies	Assistant Professor Keisuke Eshima
	Reconstructing Cenozoic paleoceanographic and climatic changes in tropical and warm current regions	Associate Professor Hokuto Iwatani
	Sedimentation, consolidation, accretion and collapse.	Research Professor Kiichiro Kawamura
	Systematic understanding of behavior of transition elements and hydrogen-bonding system in minerals, and its effect on crystal structures and physical properties.	Young Advanced Professor Mariko Nagashima
	Study on physical properties and deformation mechanisms of crustal rocks.	Associate Professor Kiyokazu Oohashi
	Study on geologic hazard mechanism and ground-groundwater environmental analysis.	Professor Takehiro Ota
	Magma processes in orogenic belts: Implications for crust-mantle interaction.	Professor Masaaki Owada
	Study of paleoenvironment and paleobiota by sedimentary organic molecules	Assistant Professor Ryosuke Saito
	Accretion and subduction seismogenesis sciences on land and the ocean.	Professor Arito Sakaguchi
	Metamorphic P-T condition and tectonics.	Professor Toshiaki Shimura
	Field geology in accretionary complex and volcanic regions	Associate Professor Tomohiro Tsuji



(博士前期課程) 機械工学系専攻 [Division of Mechanical Engineering]

Course	Research Field	Academic Staff
Biomedical Engineering	Education and research on biomechanical simulation and evaluation of mechanical properties of biomaterials	Professor Junji Ohgi
	Education and research on nonlinear finite element method, Biomechanical simulation and its applications in medicine	Professor Xian Chen
	Education and research on measurement methods for living tissue using ultrasonic and design of medical devices using numerical simulation	Professor Koji Mori
	Education and research on the development of implantable focal brain temperature control devices and multimodal brain activity sensors, in addition to signal processing techniques for pathological brain activity obtained through these devices.	Associate Professor Takao Inoue (Advanced Science and Innovational Research Center)
	Interdisciplinary application for human quality of whole life based on engineering, developmental brain and body neuromicrobiology, cognitive psychology and psychiatry in medicine and pedagogy	Associate Professor Mamiko Koshiba
Aerospace and Thermal Engineering	Educational and Research on the Application of Earth Observation Using Satellite Data	Professor Takahiro Osawa (Advanced Science and Innovational Research Center)
	Education and research on thin film coating by thermal chemical vapor deposition, nanoparticle formation due to combustion and gasification and solidification from woody biomass	Professor Kenichiro Tanoue
	Education and research on combustion, exhaust emission and noise in internal combustion engines, combustion of sprays and droplet clouds, microcombustion, and noise reduction by mufflers	Professor Masato Mikami
	Education and research on the canonical turbulent flows such as boundary layer, jet and wake often seen in engineering application	Professor Shinsuke Mochizuki
	Education and research on satellite remote sensing technology, processing algorithm, and application to the Earth's environment monitoring	Associate Professor Keiji Imaoka (Organization for Research Initiatives)
	Education and research on the numerical modeling and simulation for complex flow phenomenon	Associate Professor Fei Jiang
	Education and research on carbon-neutral fuel production by plasma	Associate Professor Ryoya Shiraishi
	Education and research on combustion of hybrid rocket solid fuel	Associate Professor Ayana Banno
Mechanosystems Design Engineering	Education and research on instrumentation and system identification for non-linear control systems	Professor Kakuji Ogawara
	Education and research on development of smart mechatronic system, sensing technology, microactuator and structure for engineering and medical applications	Professor Zhongwei Jiang
	Education and research on human-machine systems, system integration and control system synthesis	Professor Fumitake Fuji
	Education and research on the design and fabrication of micro mechanical devices, which is suitable for living body, and the development of microfabrication technology that is necessary for fabrication of the micro devices, and the their application to characterization and operation of living body/cell and medical care	Professor Kazuyuki Minami
	Education and research on design theories and methodologies of mechanical systems including strategy planning, identifying needs, generating-evaluating concepts, and computational optimization	Associate Professor Tsuyoshi Koga
	Education and research on modeling and control of dynamical systems	Associate Professor Hidenori Shingin
	Design and development of sensors and actuators for medical device using simulations and experiments	Associate Professor Minoru Morita
	Education and research on microstructure control for hydrogen-resistant steels and evaluation of their properties.	Associate Professor Arnaud MACADRE
	Education and research on development of microdevices and their application to biosystems	Associate Professor Tasuku Nakahara

(博士前期課程) 建設環境系専攻 [Division of Construction and Environmental Engineering]

Course	Research Field	Academic Staff	
Civil and Environmental Engineering	Education and research on natural environment and disaster prevention in river basin	Professor	Yoshihisa Akamatsu
	Study on corrosion analysis and maintenance technique of steel bridges	Professor	Toshihiko Aso
	Study on planning and Management Process of urban/regional Infrastructure	Professor	Hiroyuki Sakakibara
	Study on mechanical characteristics of geomaterial and numerical analysis for geotechnical engineering	Professor	Yukio Nakata
	Sustainable, Disaster-resilient & Eco-friendly Road Structures	Associate Professor	Shinichiro Nakashima
	Education and research on the technology development for the rich water environment and environmental friendly city	Associate Professor	Koichi Yamamoto
	Education and research on exploitation and effective use of resources in geotechnical engineering	Associate Professor	Norimasa Yoshimoto
	Education and research on seismic design and GNSS monitoring of bridge structures	Associate Professor	Gakuho Watanabe
	Education and research on sophistication of production, construction and maintenance of concrete	Associate Professor	Yuji Yamada
	Corrosion prevention and maintenance of steel bridges	Assistant Professor	Rina Hasuike
Civil and Environmental Engineering International	Fundamental research on hydraulics and its application for disaster prevention and environmental issues	Professor	Koji Asai
	Education and research on evaluation of geotechnical characteristics of ground subjected to rainfall and earthquake and their resistant design	Professor	Motoyuki Suzuki
	Education and research on conserving natural environment and building sustainable society	Professor	Masahiko Sekine
	Design, construction and maintenance of composite structures using cementitious materials	Professor	Isamu Yoshitake
	Use of microbial power to solve the problems in Civil Engineering	Associate Professor	Md.Azizul Moqsud
	Education and research on photogrammetry, remote sensing and statistical analysis	Associate Professor	Ariyo Kanno
	Regional and transportation planning based on attitude and behavior analysis	Associate Professor	Haruna Suzuki
	Education and research on characteristics and its evaluation of various geomaterials	Associate Professor	Hiroyuki Hara
	Education and research on the design, construction and maintenance of earth structures	Associate Professor	Hirotohi Mori
Environmental System Engineering	Education and research on optimum management and/or treatment including resources recovery of wastewater and organic solid waste for sustainable society.	Professor	Tsuyoshi Imai
	Space Utilization Engineering such as Earth Observation Satellite, Positioning Satellite, and Communication Satellite with Data Science and AI technologies	Professor	Masahiko Nagai
	Environmental Cleanup and Resource Recycling Based on Separation Technology	Professor	Masakazu Niinae
	Education and research on evaluation and control of environmental contamination and waste management	Professor	Takaya Higuchi
Architecture	City Planning and Urban Design Methods for Compact Cities	Professor	Shinji Ikaruga
	Research on Evaluation Method for Structural Performance and Seismic Performance of Buildings / Development of Rational Structural Systems.	Professor	Eiichi Inai
	Optimization of Indoor and Outdoor Thermal Environment, Development of Advanced HVAC Systems	Professor	Katsuhiro Miura
	Investigation on Various Performances, Numerical Method of Mechanical Behaviors, and Environment-Conscious Design Method for Building Materials	Professor	Zhuguo Li
	Evaluation and strategy for structural safety and security	Professor	Kazuhiko Yamada
	Study on housing and community design in consideration of region-specific conditions.	Associate Professor	Akira Ushijima
	Optimization of Indoor and Outdoor Thermal Environment, Development of Advanced HVAC Systems	Associate Professor	Ryoichi Kuwahara
	Study on Urban Planning based on Quantitative and Visual Evaluation	Associate Professor	Takeshi Kobayashi
	Urban Policy and Architectural Planning and Design for Social Housing	Associate Professor	Rei Shiraishi
	Education and Research on Spatial Design and Management at the District and Town Scale from the view of Sustainable Urban Development	Associate Professor	Junhwan Song
	Study on Regional and Architectural Planning for Elderly and Handicapped People	Associate Professor	Syohken Koh
	Research on Evaluation Method for Structural Performance and Seismic Performance of Buildings / Development of Rational Structural Systems.	Associate Professor	Tomofusa Akita

## (博士前期課程) 化学系専攻 [Division of Applied Chemistry]

Course	Research Field	Academic Staff
Materials Chemistry	Education and Research on Functional Electrolytes for Lithium Secondary Battery	Professor Koji Abe (Advanced Science and Innovational Research Center)
	Education and Research on Synthesis and Development of New Organic Materials for Electronic Devices	Professor Kenjiro Onimura
	Research and education of catalysis for production of renewable energy, selective conversion and environmental protection	Professor Yoshihisa Sakata
	Education and Research on Synthesis of Inorganic and Inorganic-Organic Composite Materials for Energy and Environmental Applications	Professor Masaharu Nakayama
	Thermodynamics and Structure of Electrolyte Solution and Gel Systems	Professor Kenta Fujii
	Education and study related to synthesis and application of organic functional material such as organic gelators and liquid crystal materials	Associate Professor Hiroaki Okamoto
	Solid state chemistry and physical properties of functional inorganic materials	Associate Professor Akihiko Nakatsuka
	Development of advanced ceramics and spectroscopy	Associate Professor Hirotaka Fujimori
	Education and research concerning the spectroscopic study for heterogeneous catalysis	Associate Professor Masaaki Yoshida
	Discovery of New Crystal Growth Mechanism and Establishment of its Utilization Technique	Associate Professor Harutoshi Asakawa
	Education and Research on Synthesis of Supramolecular Materials for Application of Molecular Machines	Associate Professor Kazuhiro Yamabuki
Bioengineering and Chemistry Engineering	Education and research for genetic engineering and gene function analysis contributing to foods, energy, and medicine	Professor Rinji Akada
	Organic synthesis toward development of green methodologies, new materials innovation, and bioactive products synthesis.	Professor Akio Kamimura
	Preparation and application of new functional polymer materials and application of electrospun nanometer-sized fibers to energy storage devices	Professor Hiromori Tsutsumi
	The development of new organic synthesis using a transition metal catalyst	Professor Takashi Nishikata
	Research on life sciences and development of biotechnology for medical, energy, food and environmental applications	Professor Hisashi Hoshida
	Bioreaction and biochemical engineering for bio-, medical and food processing	Professor Makoto Yoshimoto
	Bioreaction and biochemical engineering for bio-, medical and food processing	Associate Professor Noriko Yoshimoto
	The development of new methodology utilizing the properties of elements	Associate Professor Takuji Kawamoto
Environmental Chemistry and Chemical Engineering	Education and research on membrane technology for green energy and chemical production processes	Professor Izumi Kumakiri
	Education and research for the intensification, optimization, and energy saving of chemical processes with transport phenomenon and process design	Professor Takashi Saeki
	Development and application of functional polymer materials (separation membranes, gel materials and polymer electrolyte membranes) for energy saving	Professor Mitsuru Higa
	Studies on Energy-Efficient Chemical Processes and Advanced Materials to Achieve the Processes	Professor Kazuhiro Tanaka
	Education and research on functional particle designs for environmentally-friendly, high-efficient processes and applications	Associate Professor Haruyuki Ishii
	Education and research on the elucidation of flow phenomena by characterization of complex fluids, understanding of their internal structure, and relating them to other physical properties	Associate Professor Aya Kaide
	Electrochemical evaluation and synthesis of novel electrode materials for new-generation battery system	Associate Professor Ayuko Kitajou
	Education and research on the removal and reduction techniques of environmental pollutants in the chemical process	Associate Professor Shigetoshi Kobuchi
	Education and research by computational chemistry on search of reaction mechanisms for catalysis and molecular design of new functional materials	Associate Professor Michinori Sumimoto
	Education and research on design of the environmentally friendly chemical process using biocatalysts	Associate Professor Eiichi Toorisaka
	Development of novel catalysts for the synthesis of functional resin materials.	Associate Professor Hidetoshi Yamamoto
	Development of electrochemical processes using polymer materials and electrolytes	Associate Professor Nobutaka Endo

(博士前期課程) 電気電子情報系専攻 [Division of Electrical, Electronic and Information Engineering]

Course	Research Field	Academic Staff
Electronic Devices Engineering	R&D of electronic materials and devices, based on microstructure design and computational science, for wireless communication, data storage and energy harvesting	Professor Koji Akai (Faculty of Global and Science Studies)
	Development of spintronic materials and magnetic device applications using microfabrication	Professor Hironori Asada
	Production of ionic plasmas and investigation of their characteristics	Professor Wataru Oohara
	Development of new functional materials for electron, spin and phonon engineering	Professor Tsuyoshi Koyanagi
	Theoretical study of properties of various materials by means of computer simulation and experimental study of optical properties of amorphous semiconductors	Professor Yasuhiro Senda
	Study on spin transport phenomena and development of new spintronics devices using the phenomena	Professor Taro Nagahama
	Optical properties and functionalities of wide-bandgap semiconductor low-dimensional quantum structures	Professor Yoichi Yamada
	Fabrication of next-generation optical and electronic devices using nitride semiconductor	Associate Professor Narihito Okada
	Theoretical study of properties of various materials by means of computer simulation and experimental study of optical properties of amorphous semiconductors	Associate Professor Chisato Ogihara
	Vacuum science and technology. Development of vacuum apparatus for advanced device fabrication	Associate Professor Hiroki Kurisu
	Statistical-physical study for nonlinear phenomena from a viewpoint of hierarchical structure	Associate Professor Takayuki Narumi
	Development of metallic or oxide superconducting wires, and design and applications of superconducting coils	Associate Professor Naoyuki Harada
	Development of thermoelectric materials and devices	Assistant Professor Kengo Kishimoto
	Research on optical characterization of wide-bandgap semiconductors by micro-spectroscopy	Assistant Professor Satoshi Kurai
	Improved processes using electrolysis: bonding between electronic materials and activation of flocculants for water purification	Assistant Professor Takuya Murata
Electronic Systems Engineering	Power electronics applications for the active power line conditioners, LED power supplies and ubiquitous power for great disaster	Professor Toshihiko Tanaka
	Theory and applications based on intelligent calculation and mathematical optimization for big data, cloud edge, and IoT	Professor Yoshinobu Tamura
	Radio signal processing techniques and its application to wireless networks	Professor Hidekazu Murata
	Theory and applications of system control and optimization	Professor Yuji Wakasa
	Theory and applications of intelligent sensing system	Associate Professor Seiji Nishifuji
	Research and Development on High-Performance Wireless Power Transfer System and Theoretical Study on Mode in Guided-Wave Structure for Optical-Wave and/or Microwave and its Application for Communication Devices	Associate Professor Masashi Hotta
	Power electronics applications for the active power line conditioners, LED power supplies and ubiquitous power for great disaster	Associate Professor Hiroaki Yamada
	Intelligent Sensing, Intelligent Information Processing and their Applications	Associate Professor Shota Nakashima
	Theory and applications of system control	Assistant Professor Ryosuke Adachi
	Theory and applications of system reliability and maintainability	Assistant Professor Lei Zhou

Course	Research Field	Academic Staff
Intelligent Systems and Media Engineering	Mathematical analysis and modeling for the regulation of artificial genetic circuits based on the system of biological gene expression	Professor Manabu Sugii (Faculty of Global and Science Studies)
	Development of rendering methods for generating realistic images by CG and application systems of virtual reality	Professor Katsumi Tadamura
	Intelligent information processing models using machine learning and their applications to big data analysis	Professor Shingo Mabu
	Investigation of vision mechanisms by techniques in nonlinear science and vision psychology and their applications to imaging technologies	Associate Professor Atsushi Osa
	Statistical Analysis, Evaluation and Prediction of Stochastic Audio Sound Fields	Associate Professor Tetsuro Sacki
	Intelligent systems inspired by computation in the brain and their applications to remote sensing	Associate Professor Toshikazu Samura
	Analysis, Understanding, Reproduction and Applications of Auditory Phenomenon.	Associate Professor Takahiro Tamesue (Center for Information Infrastructure)
	Fundamental research and applications of pattern recognition and image processing	Associate Professor Yusuke Fujita
	Visual computing including image processing and pattern recognition, and its implementation on general processing units for fast parallel computation	Associate Professor Yoshiki Mizukami
	Study on computer vision generating human vision using computer	Associate Professor Satoru Morita
	Large-scale social network analysis based on mobile phone data	Associate Professor Kunhao Yang
	Visual Information. Research on the human perceptual and cognitive mechanism, especially on the visual system	Assistant Professor Saori Aida
Information Systems Engineering	Innovation and Improvement in the Fascinating Field of Computing	Professor Wang Yue (Center for Information Infrastructure)
	Applied informatics for civil infrastructure	Professor Kei Kawamura
	Development of information system for social infrastructure maintenance Evolutionary Algorithms for Optimization and their Application to Engineering	Professor Hideaki Nakamura
	Dependable parallel and distributed systems and networks	Professor Masaru Fukushi
	Software Engineering and Systems Engineering	Professor Shingo Yamaguchi
	Research on cooperative transmission, modulation, coding, signal processing, and machine learning for wireless communications	Associate Professor Yuta Ida
	Cross-Media Social Communication and Search System	Associate Professor Yuanyuan Wang
	Education and research on development of effective ways and system for disaster risk mitigation and reduction concerning natural and man-made disasters.	Associate Professor Koichi Takimoto
	Studies on software engineering and software education	Associate Professor Kazuhisa Nakasho
	Fault-tolerant parallel and distributed systems	Assistant Professor Yota Kurokawa
	Research on Software Engineering, IoT and Data Science	Assistant Professor MOHD ANUARUDDIN BIN AHMADON



(博士前期課程・修士課程) 農学系専攻 [Division of Agricultural Sciences]

山口大学・カセサート大学国際連携農学生命科学専攻 [Yamaguchi University and Kasetsart University Joint Master's Degree Program in Agricultural and Life Sciences]

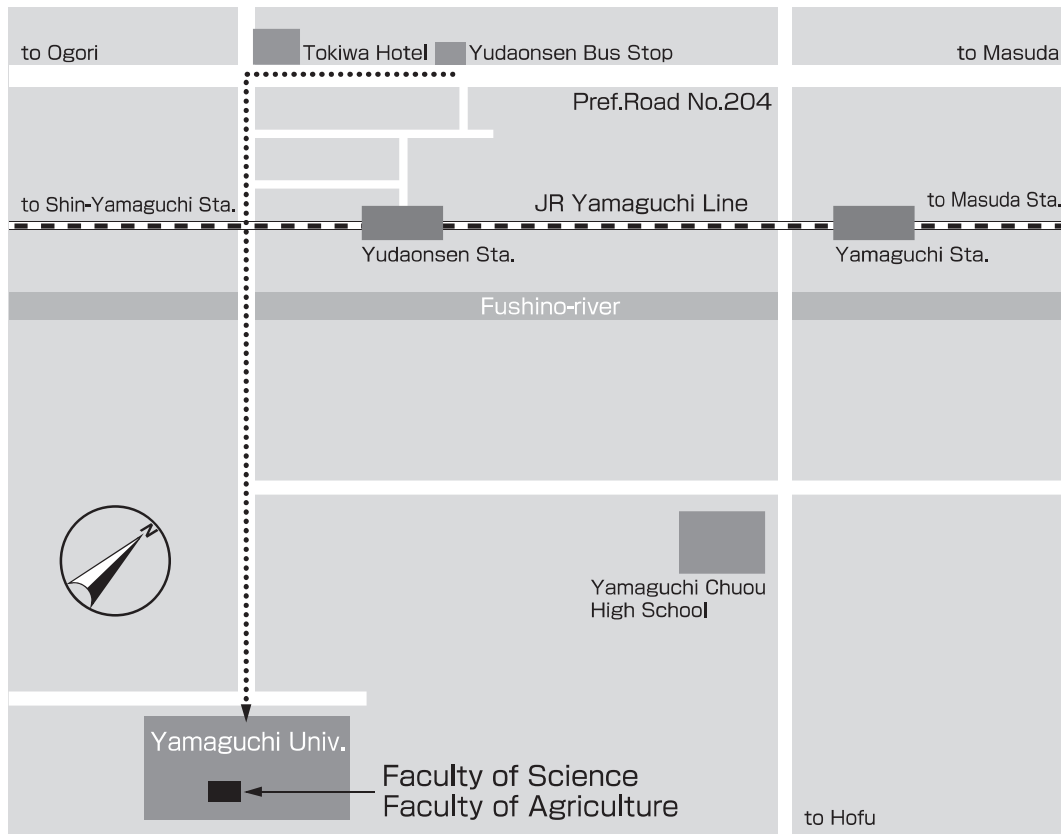
Course	Research Field	Academic Staff
Agriculture	Ecological and physiological mechanisms of tolerance to environmental stresses of crops Crop cultivating methods to alleviate negative impacts of environmental stresses	Professor Hideki Araki
	Plant image analysis Environmental control in plant production	Professor Yasuomi Ibaraki
	The development of genome informatics-based technologies for the utilization and management of insects Establishment of insect cell culture system for valuable material production	Professor Jun Kobayashi
	High efficiency and value added production system in plant factory Development of novel vegetable variety suitable for cultivation under global warming effects	Professor Masayoshi Shigyo
	Observational study on microphysics of preicipitating clouds Study on rain/snow associated with agricultural disasters	Professor Kenji Suzuki
	Physiological and ecological analysis on harvest yield and products quality for crop Establishment of sustainable system on crop cultivation with additional value	Professor Tadashi Takahashi
	Biodiversity, taxonomy and nestmate recognition of termites in Asia	Professor Yoko Takematsu
	Study on inheritance of various traits in fruit trees and their use in breeding Study on functional compounds and its applications in fruit trees	Associate Professor Jung-Hee Kim
	Measurement and modeling of plant physiology in plant factory. Utilization of unused resources for energy-saving control of greenhouse environment.	Associate Professor Yuki Sago
	Study on the distribution and consumption of agricultural and livestock products Study on Enterprise and Business Administration and food industry	Associate Professor Yutaka Taneichi
	Agricultural use of by-product gypsum Study on soil education in primary and secondary education	Associate Professor Mitsuru Toma
	Animal Ecology and Wild Animal Damage Prevention Genetic Diversity of Local Animal Populations	Associate Professor Eiji Hosoi
	Molecular analysis of plant drought-tolerant and water-saving mechanism Breeding of new crop cultivar possessing drought-tolerant and water-saving trait	Associate Professor Ryosuke Mega
	Dynamics of soil organic matter by microorganisms Soil formation mechanisms in Akiyoshidai plateau	Associate Professor Yukiko Yanagi
	Studies on pathogenicity factor of soilborne plant pathogen Comparative genome analysis of plant pathogenic fungi	Assistant Professor Kazunori Sasaki

Course	Research Field	Academic Staff	
Applied Bioscience	Investigation and synthesis of physiologically active compounds (pheromones and allelochemicals) Elucidation of mechanistic pathway for the biogenesis of volatile aroma compounds and its physiological roles	Professor	Yoshihiko Akakabe
	Molecular mechanisms of bacterial colonization to host surface Bacterial communication and its application to medicine and industry	Professor	Hiroyuki Azakami
	Functional analysis of insect for food. Study on biomolecular mechanism of the long-lived termite for anti-aging and longevity.	Professor	Yoshihito Iuchi
	Studies on structure-function relationship of metalloproteins Rational design of artificial enzymes	Professor	Shin-ichi Ozaki
	Ecophysiological evolution of plant chemical defenses Metabolism of plant functional compounds and its applications	Professor	Kenji Matsui
	Regulation and action of oxidative signal in plant development and stress responses Investigation of plant ingredients to detoxify aldehydes and its application to health improvement	Professor	Jun'ichi Mano
	Physiological and biochemical studies on neuromuscular adaptation in mammalian Optimal training stimulation for muscle adaptations during development and aging	Professor	Hirofumi Miyata
	Study on microbial metabolism and enzyme Study on enzyme complex in biomembrane	Professor	Toshiharu Yakushi*
	Molecular ecology of environmental microorganisms mediating nitrogen transformation. Ecological suppression of soil-born plant pathogens.	Professor	Kazuhira Yokoyama
	Microbial fermentation physiology and metabolic engineering Bioproduction of useful compounds by microbes	Associate Professor	Naoya Kataoka
	Regulation between assimilatory metabolisms in plant plastids Mechanisms for molecular interaction and electron transfer between ferredoxin and its dependent proteins	Associate Professor	Yoko Kimata
	Study on metabolism and robustness of microorganisms Study on unique metabolic mechanism of microorganisms	Associate Professor	Tomoyuki Kosaka
	Biosynthetic mechanisms underlying formation of plant volatiles, Production of bioactive compounds from plants by metabolic engineering	Associate Professor	Takao Koeduka
	Physiological ecology of microorganisms in the subsurface biosphere Elucidation of temperature adaptation mechanisms of microbes	Assistant Professor	Yu Sato
	Study on the role of symbiotic microorganisms in the stress resistance of marine invertebrate. Elucidation of the establishment mechanism of host-microbe symbioses.	Assistant Professor	Ikuko Yuyama

\*Only in charge of Yamaguchi University and Kasetsart University Joint Master's Degree Program in Agricultural and Life Sciences

## \* Science Department and Agriculture Department

### Guide Map of the Faculty of Science and Faculty of Agriculture, Yamaguchi University



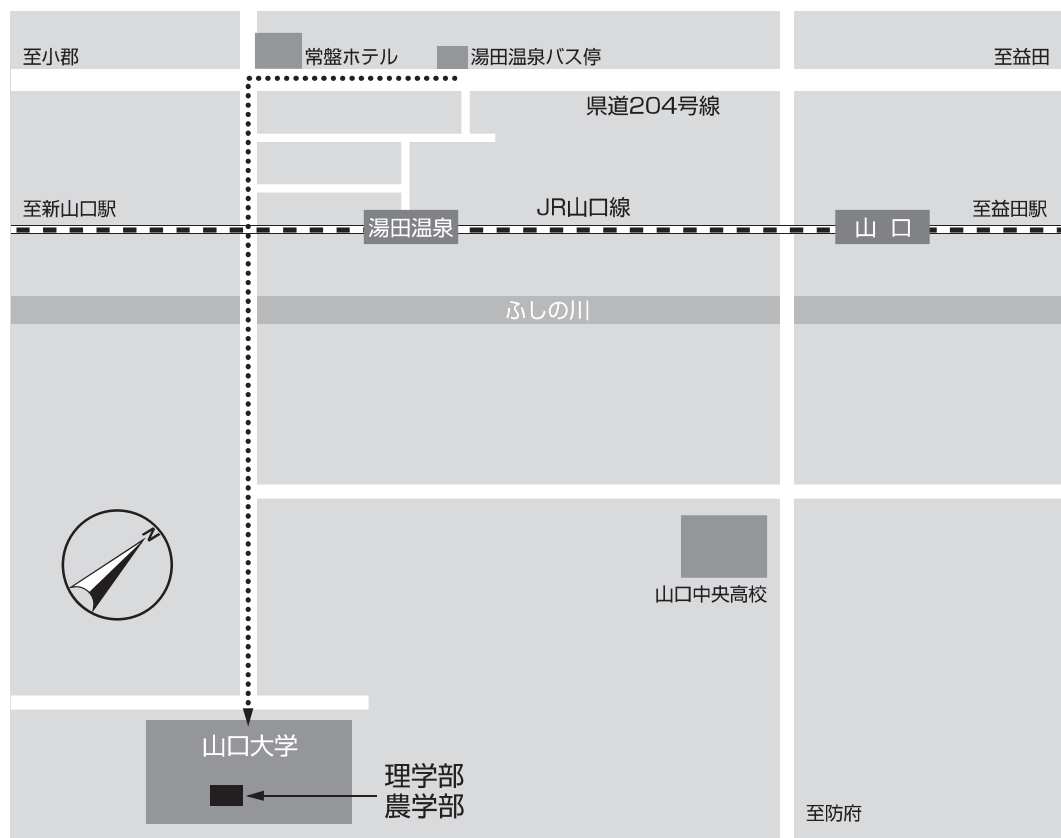
### 〔Transportation〕

Change to the JR Yamaguchi Line at Shin-Yamaguchi station and get off at Yudaonsen station. Then, about 25 min by walk to Faculty of Science and Faculty of Agriculture, Yamaguchi University.

Bocho-buses for Kenchomae, Miyanoonsen, Sports-no-mori are also available from Shin-Yamaguchi station. Get off the buses at Yudaonsen bus stop. Then, about 35 min by walk to Faculty of Science and Faculty of Agriculture, Yamaguchi University.



## 試験場案内図（理学系・農学系）



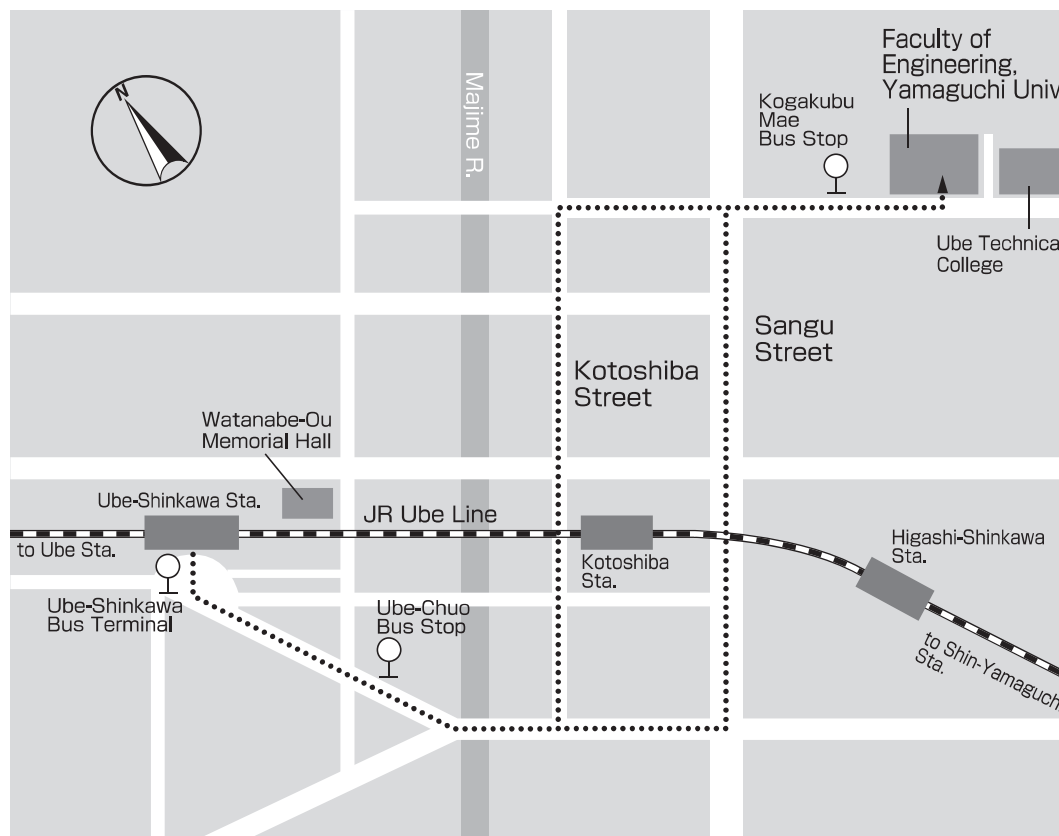
### 〔交通〕

山陽本線新山口駅から山口線「湯田温泉駅」下車、徒歩 25 分。

又は新山口駅前から防長バス県庁前行、宮野温泉行、スポーツの森行「湯田温泉」下車。  
徒歩 35 分。

## \* Engineering Department

### Guide Map of the Faculty of Engineering, Yamaguchi University

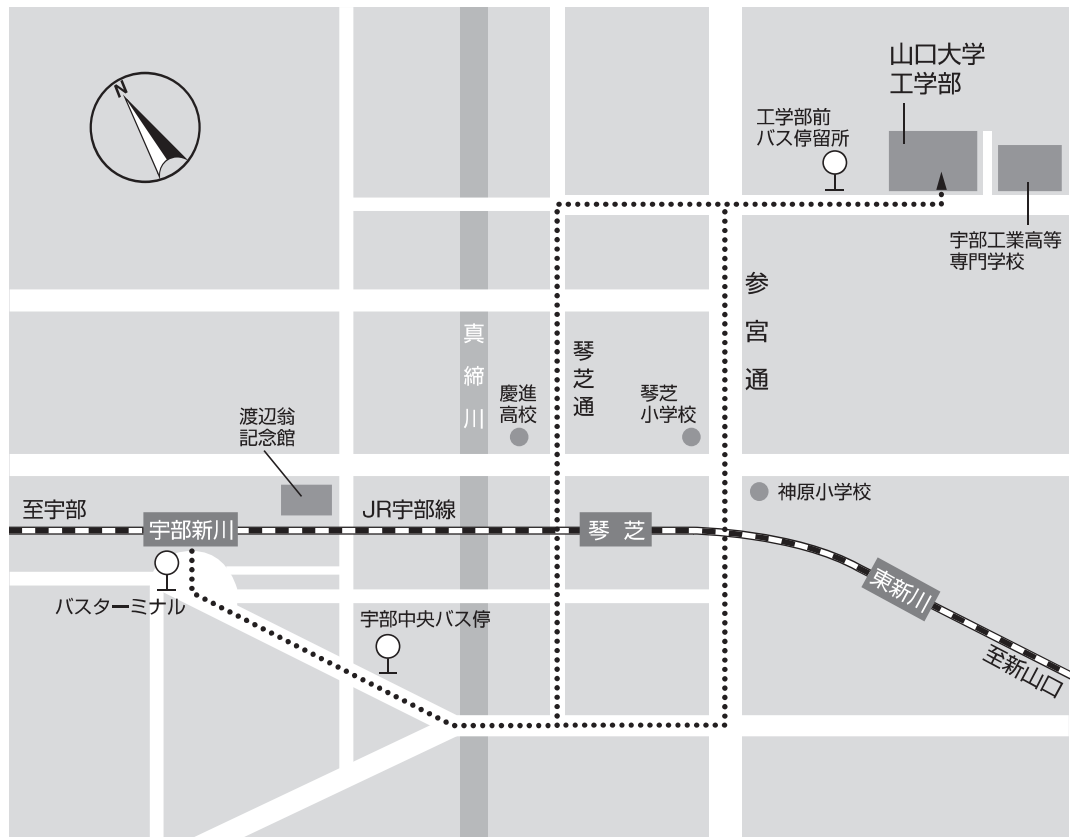


## Engineering Department

### 〔Transportation〕

Change to the Ube Line at Shin-Yamaguchi or Ube from the JR Sanyo Line and get off at Ube-Shinkawa or Kotoshiba. About 10 minutes by taxi from Ube-Shinkawa station.

## 試験場案内図（工学系）



### 工学系

#### 〔交通〕

JR山陽本線「新山口駅」又は「宇部駅」からJR宇部線「宇部新川駅」又は「琴芝駅」下車。

タクシーで約 10 分