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

MASTER'S PROGRAM
OCTOBER 2021

2021 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 2021.
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	June 28 (Mon.) through July 2 (Fri.), 2021
Engineering	June 30 (Wed.) through July 2 (Fri.), 2021
Agriculture	June 28 (Mon.) through July 2 (Fri.), 2021

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 *(Monbukagakusho)* 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

<table>
<tr><th>Department</th><th>Division</th><th>Examination Subjects</th><th>Interview</th></tr>
<tr><td rowspan="6">Science</td><td>Fundamental Sciences (Mathematical Sciences)</td><td></td><td rowspan="13">Interview
(See Note 1)</td></tr>
<tr><td>Fundamental Sciences (Physics)</td><td>Major Subjects</td></tr>
<tr><td>Fundamental Sciences (Informatics)</td><td>Major Subjects</td></tr>
<tr><td>Earth Science, Biology, and Chemistry (Biology)</td><td>Major Subjects</td></tr>
<tr><td>Earth Science, Biology, and Chemistry (Chemistry)</td><td>Japanese and English
Major Subjects</td></tr>
<tr><td>Earth Science, Biology, and Chemistry (Earth Sciences)</td><td></td></tr>
<tr><td rowspan="5">Engineering</td><td>Mechanical Engineering</td><td rowspan="2">Mathematics
(See Note 2, 3)
Major Subjects</td></tr>
<tr><td>Construction and Environmental Engineering</td></tr>
<tr><td>Applied Chemistry
(Materials Chemistry, Bioengineering and Chemistry Engineering)</td><td>Mathematics
(See Note 2)
Major Subjects (Oral examination)
(See Note 4)</td></tr>
<tr><td>Applied Chemistry
(Environmental Chemistry and Chemical Engineering)</td><td rowspan="2">Mathematics
(See Note 2)
Major Subjects</td></tr>
<tr><td>Electrical, Electronic, and Information Engineering</td></tr>
<tr><td>Agriculture</td><td>Agricultural Sciences</td><td>Major Subjects</td></tr>
</table>

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	Physical Chemistry, Inorganic Chemistry, and Chemical Engineering, Organic Chemistry, Polymer Chemistry, and Biochemistry	Requiring six subjects.	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.
	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.
Agriculture	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 page.		

4. Examination Dates

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

Examination Dates	Examination Subjects	Time
July 31 (Sat.), 2021	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 19 (Thu.), 2021	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 19 (Thu.), 2021	Mathematics	10:30 – 12:00
	Major Subjects (Oral examination)	13:00 –
	Interview	16:40 –

[Agriculture]: Agricultural Sciences

Examination Dates	Examination Subjects	Time
August 5 (Thu.), 2021	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 25 (Wed.), 2021 12:00
Engineering	September 1 (Wed.), 2021 12:00
Agriculture	August 30 (Mon.), 2021 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.

Ⅵ. Admission Procedure

1. Period:

The Admission forms must be submitted during the following periods.

Department	Admission Procedure
Science	September 2 (Thu.), 2021 through September 6 (Mon.), 2021
Engineering	September 6 (Mon.), 2021 through September 8 (Wed.), 2021
Agriculture	September 6 (Mon.), 2021 through September 8 (Wed.), 2021

2. Admission Fee: 282,000 yen

Note 1 : The Admission fee, once paid, will not be refunded even if the applicant is denied admission for any reason.

Note 2 : In the event that Yamaguchi University decides to revise the admission fee for 2021 entrants after the publication of this document, the revised amount will be applied.

Ⅶ. Others

1. Date of Admission

October 1, 2021

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 2021 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 2021 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	2021年 ６月 28日(月) ～ 2021年 ７月 ２日(金) 必着
工学系	2021年 ６月 30日(水) ～ 2021年 ７月 ２日(金) 必着
農学系	2021年 ６月 28日(月) ～ 2021年 ７月 ２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，本研究科入学者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，独立行政法人等の保有する個人情報の保護に関する法律第９条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，出願期間中に出願書類を下記「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１６７７－１ 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１６－１ 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１６７７－１ 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「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), 専門科目	
	建設環境系専攻		
	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	物理化学, 無機化学, 化学工学, 有機化学, 高分子化学, 生物化学	６分野必修	左記の6分野全て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
2021年 7月 31日（土）	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
2021年 8月 19日（木）	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
2021年 8月 19日（木）	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
2021年 8月 5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	2021年 8月 25日（水）　正午予定
工学系	2021年 9月 1日（水）　正午予定
農学系	2021年 8月 30日（月）　正午予定

合格者受験番号を本研究科(理学部及び工学部並びに農学部)に掲示するとともに，本人に郵便で通知します。

Ⅵ. 入　学　手　続

1．入学手続期間

区　分	入学手続
理学系	2021年 ９月 ２日（木）～ ９月 ６日（月）
工学系	2021年 ９月 ６日（月）～ ９月 ８日（水）
農学系	2021年 ９月 ６日（月）～ ９月 ８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，2021 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

2021 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，2021 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	Complex Analysis, Analytic Number Theory, Fourier Analysis, and Partial Differential Equations.	Professor Makoto Masumoto
		Professor Isao Kiuchi
		Professor Fumihiko Hirosawa
		Associate Professor Yasushi Hataya
	Commutative Ring Theory, Noncommutative Ring Theory, Module Theory, and Number Theory.	Professor Isao Kikumasa
		Associate Professor Yosuke Kuratomi
		Associate Professor Kazuho Ozeki
		Associate Professor Makoto Minamide
		Assistant 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
	Mathematical Analysis of Partial Differential Equations.	Professor Mari Okada
	Complex Analysis, Conformal Mappings, Bloch and Landau Constants.	Professor Hiroshi Yanagihara
	Mathematical Approaches to Hydrodynamics and Electrodynamics.	Associate 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
	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
	Prehomogeneous vector space	Associate Professor Shinichi Kasai
Physics	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 Reseach Institute for Time Studies)
		Professor Kotaro Niinuma
		Associate Professor Kazhito Motogi
	Particle Cosmology and Field Theorertical 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
	Theoretical study on cosmology and tests of gravity	Assistant Professor Ryo Saito
Informatics	Brain Function Based Intelligent Systems and Intelligent Signal/Image Processing.	Professor Eiji Uchino
	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.	Associate 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

（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 molecular mechanisms for cell motility and cell division.	Professor Shigehiko Yumura
	Study on cell motility under light microscopy.	Associate Professor Yoshiaki Iwadate
	Study on environmental response and metabolism in microalgae.	Associate Professor Osami Misumi
	Study on developmental mechanisms of Drosophila embryo.	Professor Ryutaro Murakami
	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 *Xenopus*.	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
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 the adsorption on inorganic-organic materials of metal ions or inorganic substances.	Associate Professor Yoshiko Murakami
	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
Earth Sciences	Systematic understanding of behavior of transition elements and hydrogen-bonding system in minerals, and its effect on crystal structures and physical properties.	Associate Professor Mariko Nagashima
	Study on growth and decomposition of mineral materials depending on physical and chemical conditions.	Associate Professor Toshiya Abe
	Magma processes in orogenic belts: Implications for crust–mantle interaction.	Professor Masaaki Owada
	Metamorphic P-T condition and tectonics.	Professor Toshiaki Shimura
	Accretion and subduction seismogenesis sciences on land and the ocean.	Professor Arito Sakaguchi
	Sedimentation, consolidation, accretion and collapse.	Associate Professor Kiichiro Kawamura
	Study on geologic hazard mechanism and ground-groundwater environmental analysis.	Professor Takehiro Ota
	Study on physical properties and deformation mechanisms of crustal rocks.	Associate Professor Kiyokazu Oohashi
	Reconstructing Cenozoic paleoceanographic and climatic changes in tropical and warm current regions	Assistant Professor Hokuto Iwatani
	Understanding the preparation process of caldera-forming eruption	Assistant Professor Tomohiro Tsuji
	Study of paleoenvironment and paleobiota by sedimentary organic molecules	Assistant Professor Ryosuke Saito

（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 analysis/estimation model and measurement/control for dynamics systems	Professor Takashi Saito
	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	Associate Professor Koji Mori
Aerospace and Thermal Engineering	Education and reseach 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 reserch 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 (Center for Information Infrastructure)
	Education and research on ignition and combustion phenomena in the internal combustion engine and fundamental study of atomization and spray combustion	Associate Professor Takehiko Seo
Mechanosystems Design Engineering	Education and reseach 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 deformation, strength and reliability analysis of engineering materials	Professor Koichi Goda
	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
	Interdiscipinary 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
	Education and research on modeling and control of dynamical systems	Associate Professor Hidenori Shingin
	Education and research on human-machine systems, system integration and control system synthesis	Associate Professor Fumitake Fuji
	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

（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 natual environmant 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 of the development of seismic design and maintainance of bridge structures	Associate Professor Gakuho Watanabe
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 design and consturuction methodology of underground structure	Professor Masato Shinji
	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 sustenable society	Professor Masahiko Sekine
	Design and construction method 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 plannning 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 Hirotoshi 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
	Education and research on mechanistic aspects controlling the fate of water/soil pollutants in both engineered treatment processess and natural systems	Associate Professor Tasuma Suzuki
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
	Study on Architectural / Urban Planning and Design focusing on their Interfaces	Professor Michio Okamatsu
	Optimization of Indoor and Outdoor Thermal Environment, Development of Advanced HVAC Systems	Professor Makoto Koganei
	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
	Study on Architectural / Urban Planning and Design	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 Chmistry	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 for growth, rowth mechansm and application of functional crystals	Professor Ryuichi Komatsu
	Research and education of catalysis for production of renewable energy, selective conversion and enviromental 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
	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 Nishigata
	Reseach on life sciences and development of biotechnology for medical, energy, food and envitonmental 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
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
	Education and research on functional particle designs for environmetally-friendly, high-efficient processes and applications	Associate Professor Haruyuki Ishii
	Electrochemical evalution 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
	Studies on Energy-Efficient Chemical Processes and Advanced Materials to Achieve the Processes	Associate Professor Kazuhiro Tanaka
	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
	Optical properties and functionalities of wide-bandgap semicondoctor low-dimensional quantum structures	Professor Yoichi Yamada
	R&D of electronic materials and devices, based on microstructure design and computational scirnce, for wireless communication, data storage and energy harvesting	Professor Setsuo Yamamoto
	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
	Characterization of lattice defects and their effects on functional properties of wide-bandgap materials	Associate Professor Ayako Kai
	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
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
	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

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
	Bioinformatics based on Statistical Pattern Recognition	Professor Yoshihiko Hamamoto
	Intelligent information processing models using machine learning and their applications to big data analysis	Professor Shingo Mabu
	Investigation of vision mechanisms by techniequs 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 Saeki
	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
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
	Software Engineering and Systems Engineering	Professor Shingo Yamaguchi
	Innovation and Improvement in the Fascinating Field of Computing	Associate Professor Akira Itoh
	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
	Dependable parallel and distributed systems and networks	Associate Professor Masaru Fukushi

（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]

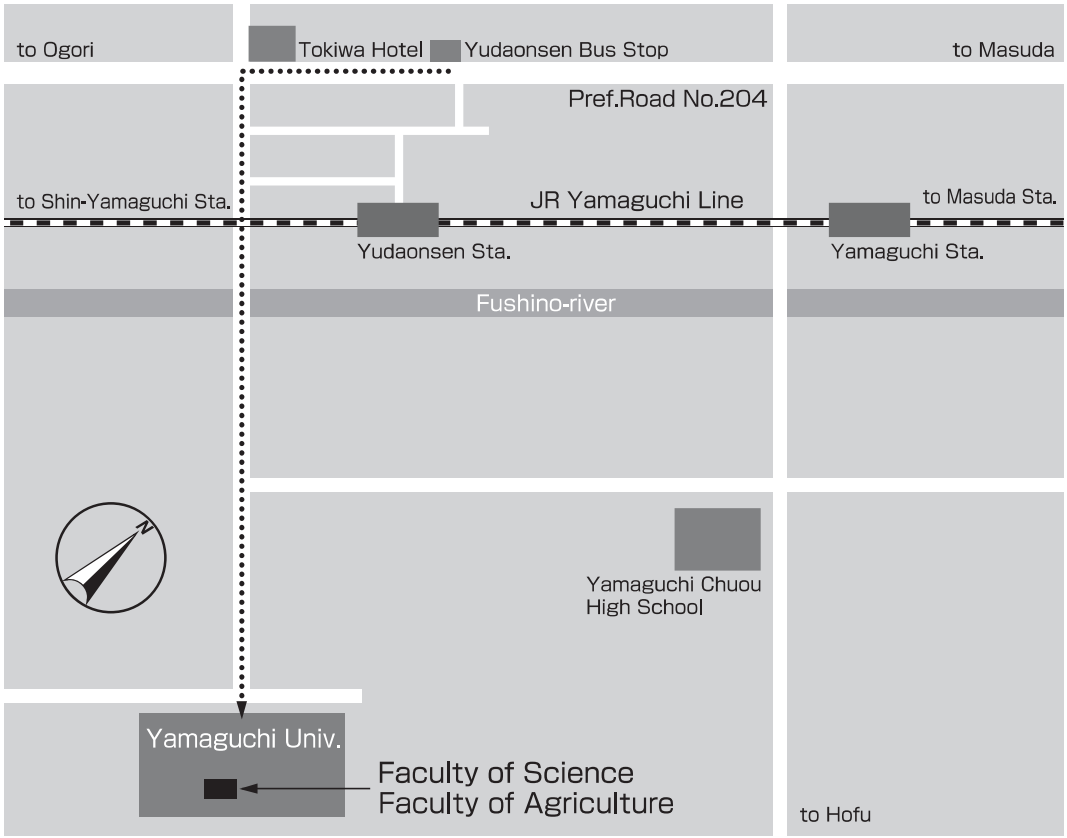
Course	Research Field	Academic Staff
Agriculture	Ecological and physiological mechanisms of tolerance to environmental stresses of crops Crop cultivating methods to alleviate negative impacts of environmental stresses	Professor Hideki Araki
	Molecular mechanisms of plant-pathogen interactions Application of studies of plant immune systems for plant protection	Professor Shin-ichi Ito
	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 measurement and control of the meteorological environment in the biosphere Study on occurrence elucidation and disaster prevention of meteorological disasters	Professor Haruhiko Yamamoto
	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 Amelioration of suboil acidity	Associate Professor Mitsuru Toma
	Animal Ecology and Wild Animal Damage Prevention Genetic Diversity of Local Animal Populations	Associate Professor Eiji Hosoi
	Dynamics of soil organic matter by microorganisms Soil formation mechanisms in Akiyoshidai plateau	Associate Professor Yukiko Yanagi
	Studies on self-incompatibility in Citrus Analysis of functional ingredients in Citrus fruits and its applications	Assistant Professor Jung-Hee Kim
	Study on relation between soil moisture and crop water stress Study on automation of upland irrigation	Assistant Professor Atsushi Sakaguchi
	Studies on pathogenicity factor of soilborne plant pathogen Comparative genome analysis of plant pathogenic fungi	Assistant Professor Kazunori Sasaki
	Screening traits specific metabolite biomarker based on metabolomics analysis Elucidation of the metabolites synthetic pathway and development of genotypes with improved pathway	Assistant Professor Ryosuke Mega

Course	Research Field	Academic Staff
Applied Bioscience	Investigation and synthesis of physiologically active compounds (pheromones and allelochemials) Elucidation of mechanistic pathway for the biogeneration 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
	Analysis and application of posttranslational modification of protein. Development and application of cell-free protein synthesis system.	Professor Toshihiko Utsumi
	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 ressponses 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
	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
	Microbial fermentation physiology and metabolic engineering Bioproduction of useful compounds by microbes	Assistant Professor Naoya Kataoka
	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

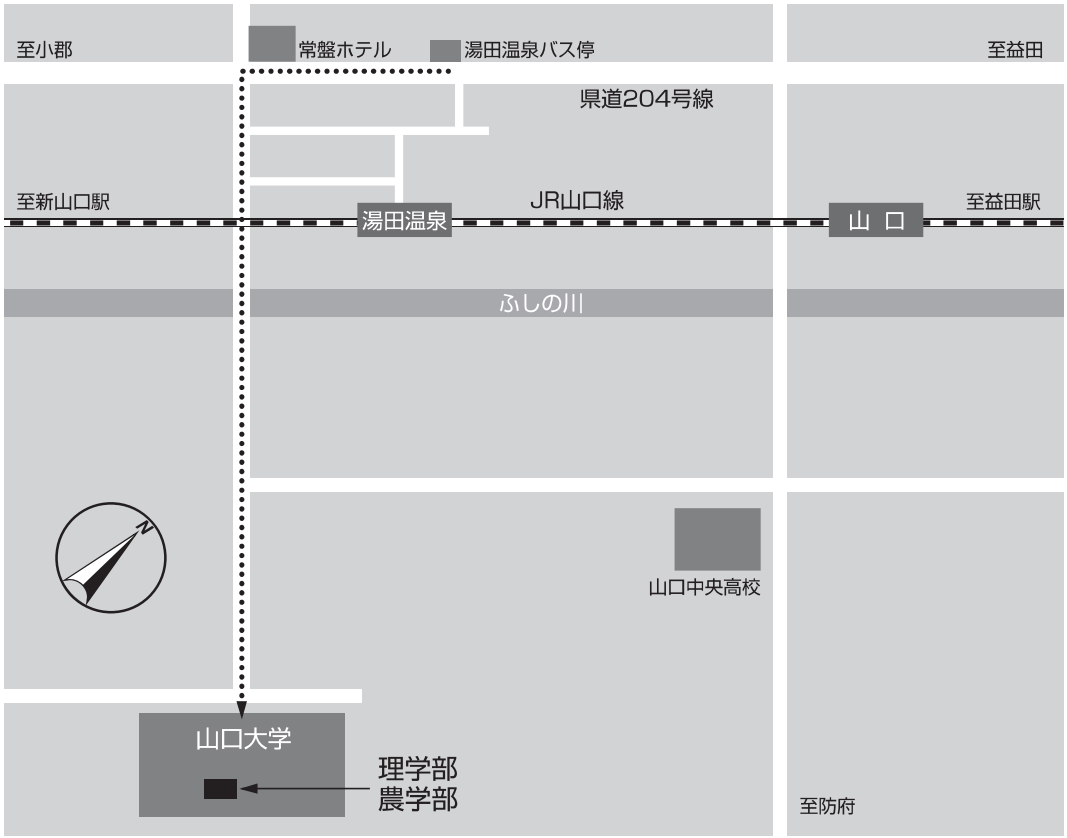


〔Transportation〕

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）

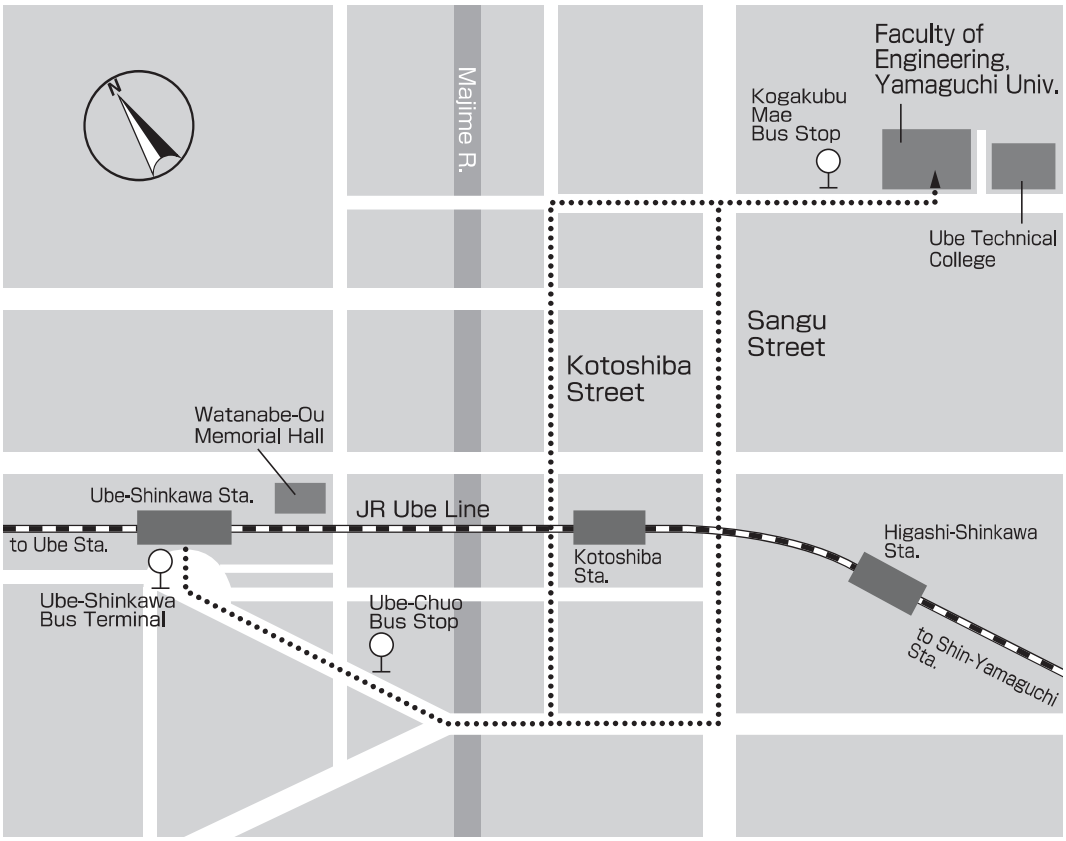


〔交通〕

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

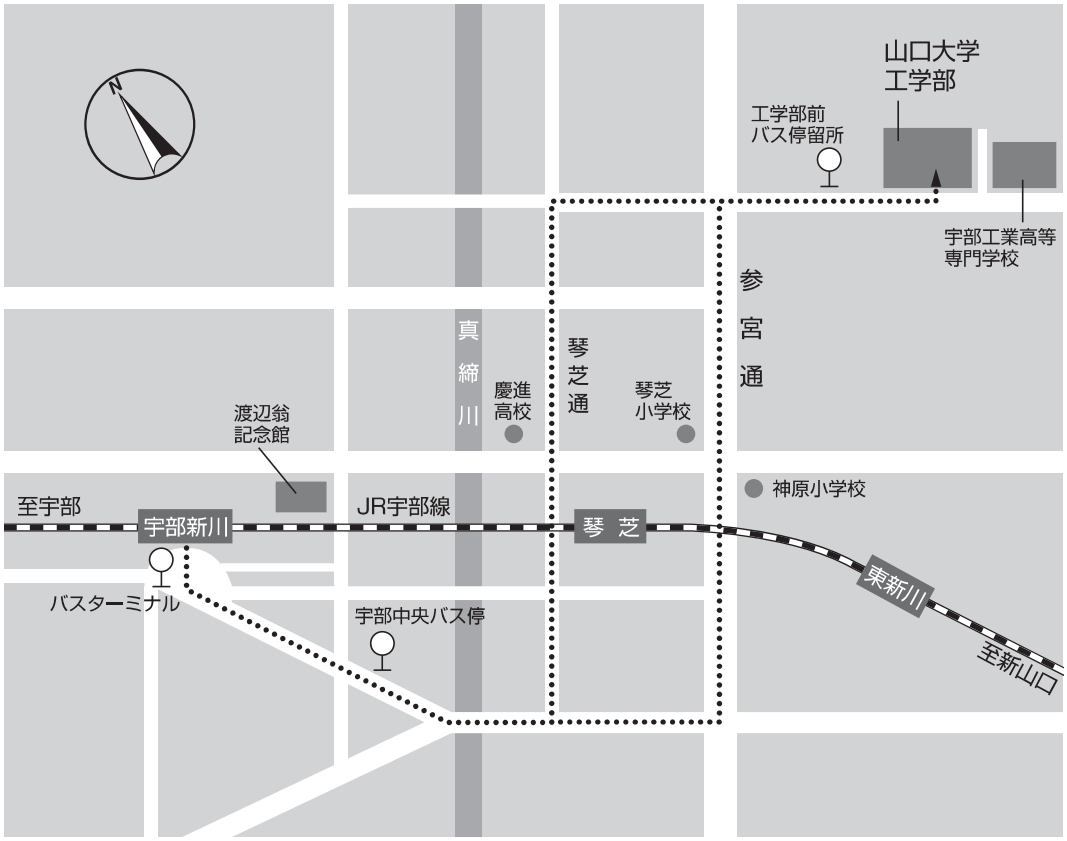


Engineering Department

〔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