

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

MASTER'S PROGRAM
APRIL 2021

2021 年 4 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)
(第3回)

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
Engineering	Mechanical Engineering	Several students in each division
	Construction and Environmental Engineering	
	Applied Chemistry	
	Electrical, Electronic, and Information Engineering	

II. Qualifications for Applicants

Applicants must have non-Japanese nationality and meet either of the following“1”or”2” requirements.

1. Have completed 16 years’ of schooling in countries other than Japan, or be expecting to complete this schooling by March 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.

Trial	Department	Application Period
3rd	Engineering	January 4 (Mon.) through January 7 (Thu.),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 Engineering department, attach any documents that prove the applicant's proficiency in Japanese or 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

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
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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
Engineering	Mechanical Engineering	Mathematics	
	Construction and Environmental Engineering	(See Note 2,3) 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) Major Subjects	
	Electrical, Electronic, and Information Engineering		

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
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

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
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.

4. Examination Dates

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

Trial	Examination Dates	Examination Subjects	Time
3rd	January 27 (Wed.),2021	Mathematics	10:30 – 12:00
		Major Subjects	13:00 –
		Interview	16:40 –

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

Trial	Examination Dates	Examination Subjects	Time
3rd	January 27 (Wed.),2021	Mathematics	10:30 – 12:00
		Major Subjects	13:00 –
		Interview	16:40 –

5. Examination Sites

Engineering Department: Faculty of Engineering, Yamaguchi University; 2-16-1 Tokiwadai, Ube

V. Announcement of Results

Trial	Department	Announcement of Results
3rd	Engineering	February 8 (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 between March 1 and March 4, 2021.

Department	Admission Procedure
Engineering	March 1 (Mon.), 2021 through March 4 (Thu.), 2021

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 2021 entrants after the publication of this document, the revised amount will be applied.

VII. Others

1. Date of Admission

April 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
工学系	機械工学系専攻	若干名
	建設環境系専攻	
	化学系専攻	
	電気電子情報系専攻	

II. 出願資格

日本国籍を有しないで、次の要件の1または2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3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られた者

(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

試験回数	区分	出願期間
第3回	工学系	2021年1月4日(月)～2021年1月7日(木) 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)をはってください。
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)を所定欄にはり付けてください。(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. 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。 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、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「速達書留」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

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
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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) いったん受理した書類は、返還しません。
- (3) 出願手続き後の書類について、内容の変更は認めません。
- (4) 入学試験に関する照会は、上記「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
工学系	機械工学系専攻	数学 (注2, 3), 専門科目	面接 (注1)
	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		

(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
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
	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

(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
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

4. 試験日時

[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

試験回数	期 日	試験科目	時 間
第3回	2021年1月27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）

試験回数	期 日	試験科目	時 間
第3回	2021年1月27日（水）	数 学	10：30～12：00
		専門科目（口頭試問）	13：00～
		面 接	16：40～

5. 試験場

試験場及び試験場への道順は、案内図を参照してください。

工学系 山口大学工学部 宇部市常盤台2丁目16-1

V. 合格者発表

試験回数	区分	合格発表日
第3回	工学系	2021年2月8日（月）正午予定

合格者受験番号を本研究科(工学部)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
工学系	2021年3月1日(月)～3月4日(木)

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4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)

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 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 (Center for Information Infrastructure)
	Education and research on the advanced aerospace engineering of atmospheric entry vehicles, and beaming and electromagnetic propulsion	Associate Professor Hiroshi Katsurayama
	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 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 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
	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 Koshiha
	Education and research on human-machine systems, system integration and control system synthesis	Associate Professor Fumitake Fuji
	Education and research on microstructure control for hydrogen-resistant steels and evaluation of their properties.	Associate Professor Arnaud MACADRE
	Design and development of sensors and actuators for medical device using simulations and experiments	Associate Professor Minoru Morita
	Education and research on modeling and control of dynamical systems	Associate Professor Hidenori Shingin

(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
	Rock mechanics modelling and rock engineering design; field monitoring and numerical analysis	Professor	Norikazu Shimizu
	Study on mechanical characteristics of geomaterial and numerical analysis for geotechnical engineering	Professor	Yukio Nakata
	Study on Development of Unconventional Resources as Concrete material and its Acceleration on High-Performance	Associate Professor	Katsuhiko Takami
	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 maintenance 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 construction 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 sustainable society	Professor	Masahiko Sekine
	Study on purifying soil contaminated by natural disaster using microorganism	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 the design, construction and maintenance of earth structures	Associate Professor	Hirotohi Mori
	Design and construction method of composite structures using cementitious materials	Associate Professor	Isamu Yoshitake
	Education and research on characteristics and its evaluation of various geomaterials	Associate Professor	Hiroyuki Hara

(博士前期課程)

建設環境系専攻 [Division of Construction and Environmental Engineering]

Course	Research Field	Academic Staff	
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	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 processes 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 Okamoto
	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 Regional and Architectural Planning for Elderly and Handicapped People	Associate Professor	Syohken Koh
	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 Human Casualty Related to Physical Damages due to Earthquakes and Planning for Optimum and Resilient Disaster Mitigation	Associate Professor	Hitomi Murakami
	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 Synthesis and Development of New Organic Materials for Electronic Devices	Professor	Kenjiro Onimura
	Research and education for growth, rowth mechsism 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
	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
	Thermodynamics and Structure of Electrolyte Solution and Gel Systems	Associate Professor	Kenta Fujii
	Development of advanced ceramics and spectroscopy	Associate Professor	Hiroataka 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

(博士前期課程)

化学系専攻 [Division of Applied Chemistry]

Course	Research Field	Academic Staff	
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
	Research and education on physical properties and structure of polymeric materials	Professor	Shuichi Maeda <small>(Advanced Science and Innovational Research Center)</small>
	Education and research on functional particle designs for environmentally-friendly, high-efficient processes and applications	Associate Professor	Haruyuki Ishii
	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
	Studies on Energy-Efficient Chemical Processes and Advanced Materials to Achieve the Processes	Associate Professor	Kazuhiro Tanaka
	Education and study on design of the environmentally friendly chemical process using biocatalysts	Associate Professor	Eiichi Torisaka
	Study and discovery of novel chiral catalysts for asymmetric organic synthesis. 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
	Crystal growth and characterization of nitride semiconductor and precision processing technology for nitride semiconductor devices	Professor Kazuyuki Tadatomo
	Optical properties and functionalities of wide-bandgap semiconductor low-dimensional quantum structures	Professor Yoichi Yamada
	R&D of electronic materials and devices, based on microstructure design and computational science, 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	New functional wave-type devices in microwave Electromagnetic metamaterials in microwave	Professor Hiroshi Kubo
	Power electronics applications for the active power line conditioners, LED power supplies and ubiquitous power for great disaster	Professor Toshihiko Tanaka
	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

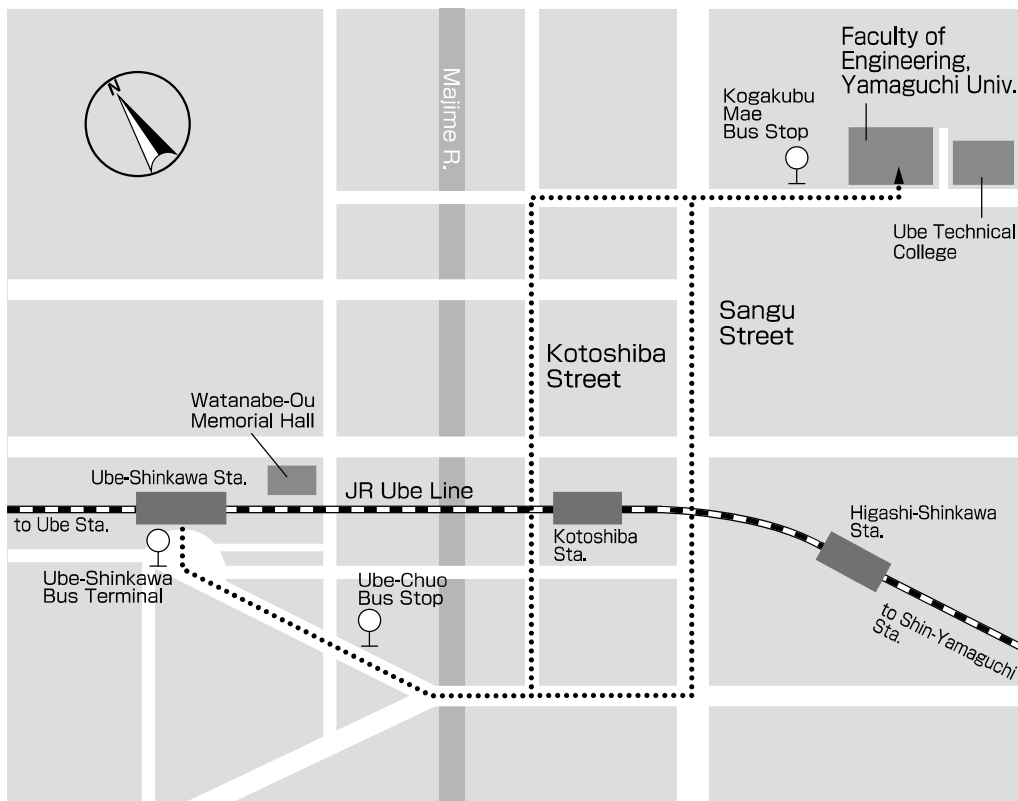
(博士前期課程)

電気電子情報系専攻[Division of Electrical, Electronic and Information Engineering]

Course	Research Field	Academic Staff	
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 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 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)
	Education and research on computer-aided diagnosis system for medical images, analysis of inner structure of human bodies, and image-based computational simulation	Associate Professor	Yasushi Hirano
	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)
	Development of information system for social infrastructure maintenance Evolutionary Algorithms for Optimization and their Application to Engineering	Professor	Hideaki Nakamura
	Sequence Design and its Application in Communications	Professor	Shinya Matsufuji
	Software Engineering and Systems Engineering	Professor	Shingo Yamaguchi
	Innovation and Improvement in the Fascinating Field of Computing	Associate Professor	Akira Itoh
	Applied informatics for civil infrastructure	Associate Professor	Kei Kawamura
	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
	Education and research about radiowave and lightwave wideband wireless communication systems, and development of their communication systems using field programmable gate arrays.	Associate Professor	Takahiro Matsumoto

* Engineering Department

Guide Map of the Faculty of Engineering, Yamaguchi University

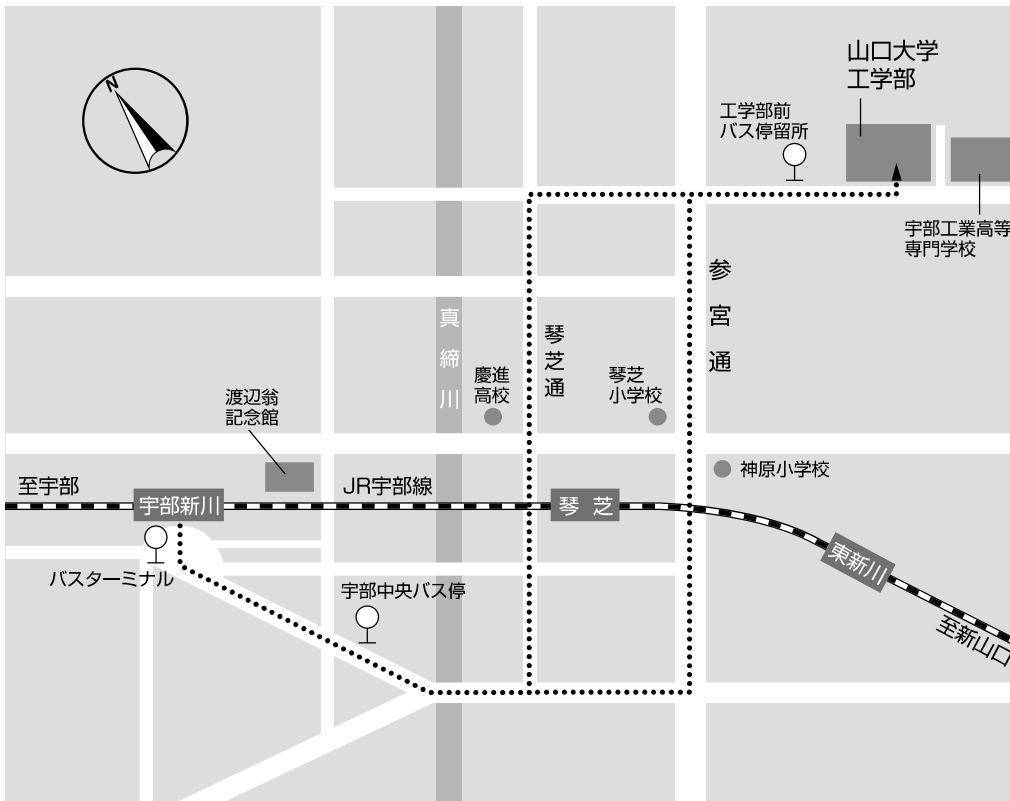


Engineering Department

{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