# Shizuoka University Special Admissions for International Students Application Guide for Asia Bridge Program

October 2018 Enrollment, Undergraduate Program (Second call for applications)

Shizuoka University holds an entrance examination for international students from the Socialist Republic of Vietnam, the Republic of Indonesia, the Kingdom of Thailand, and the Republic of India who are enthusiastic about being active globally and contributing to social innovation. After enrollment in October 2018, ABP (Asia Bridge Program) students will intensively study basic subjects (Japanese, Mathematics, etc.) for the first six months. Then they will start taking liberal arts and specialized subjects in each faculty together with Japanese students and graduate in four years.

### [Admission Policy]

ABP fosters individuals who have broad perspective on both technology and management, and play leading roles abroad, especially in the Asian region. ABP graduates are expected to contribute in the following ways in the future:

- They will be able to manage production, marketing, and sales bases throughout Asia.
- They will be able to discuss technologies in the fields of engineering, agriculture and informationcommunication in Japanese from the perspective of a local human resource, and be able to promote international expansion by taking advantage of the technological and business strengths of Japanese corporations.
- Graduates from the Faculty of Education will be able to promote school education with a global outlook by attaining a Japanese teacher's license (required for graduation).

<u>Humanities</u>		
Faculty of Education	Training Course for School Teachers	)
Science and Technology		
Faculty of Science	Department of Mathematics	
	Department of Physics	
	Department of Chemistry	
	Department of Geosciences	A few for
Faculty of Engineering	Department of Mechanical Engineering	each dept.
	Department of Electrical and Electronic Engineering	
	Department of Electronics and Materials Science	
	Department of Applied Chemistry and Biochemical Engineering	
	Department of Mathematical and Systems Engineering	
Faculty of Agriculture	Department of Bioresource Sciences	
	Department of Applied Life Sciences	J
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## I Expected number of student to be enrolled

# **II** Application Qualifications

Applicants must meet all of the conditions in 1) to 5) below.

- Applicants may not hold Japanese citizenship. Otherwise, they must plan to renounce their Japanese citizenship by the time of enrollment. (Applicants who hold Japanese citizenship must contact the admissions office regarding renouncing procedures before applying.)
- 2) Applicants must hold citizenship in the Socialist Republic of Vietnam, the Republic of Indonesia, the Kingdom of Thailand, or the Republic of India.

3) Applicants must be able to obtain an appropriate resident status that allows their enrollment to the university as per the Japanese Immigration Control and Refugee Recognition Act.

4) Applicants must meet the conditions in either (1) or (2) below.

- (1) Applicants must have completed 12 years of school education in the Socialist Republic of Vietnam, the Republic of Indonesia, the Kingdom of Thailand, or the Republic of India (including those who expect to complete said education by September 30, 2018). Otherwise, the Japanese Minister of Education, Culture, Sports, Science, and Technology must have designated applicants as a person who meets this standard.
- (2) Applicants must have passed an examination in their home country (or qualifications equivalent to the national examination, such as the International Baccalaureate qualifications) that confirms that they have the academic ability equivalent or greater to (1) above, and they must turn 18 years old by September 30, 2018. For treatment of GCE A Levels from the United Kingdom's education system, see Table 1 on Page 11.
- 5) Applicants must have spent no longer than three years of total time enrolled in Japanese secondary schools (equivalent to junior high school and senior high school) during their 12 years in school education or an equivalent course of study. If applicants were enrolled in an international school in Japan, or a school that conforms to the Japanese education system in a country other than Japan, that period of enrollment will be treated equivalently to being enrolled in a Japanese school.

[NOTE] If any points regarding the application qualifications are unclear, please contact us referring to the Contact Information on Page 9, before applying. If the application contains any fraudulent or otherwise untrue information, admission may be revoked even after it is granted.

### **III** Application Requirements

Applicants must submit their score reports for the Examination for Japanese University Admission for International Students (EJU) and any English language qualification examinations that they have taken since June 26, 2016. The subjects taken required for application are as shown on Table 2 on Page 12.

Applicants may submit a copy of their examination voucher instead of their score report only for the 1st session of 2018 EJU (Examination Date: June 17, 2018). In addition, applicants may submit their Japanese-Language Proficiency Test (JLPT) scores taken since June 26, 2016 instead of their EJU score only for Japanese as a Foreign Language.

### **IV** How to Apply

Students who wish to apply should prepare all of the documents listed in the following table in accordance with the prescribed format and submit them through the online application site. The application will be complete after pressing the "Final Submission" button on the application site after submitting all of the documents during the application period. If any information has been left out or any falsehoods are discovered, the application may not be recognized.

### NOTICE

<sup>\*</sup>In case of any discrepancies between the translation and the original Japanese application guide, the Japanese version shall prevail.

# 1. List of documents to submit

No.		ent name	Submission format	Description
1	Applicant information		Online entry	<ul> <li>The required information should be entered on the screen through the online application system.</li> <li>When registering and applying, the names written in English on the applicant's passport or national identification card should be used.</li> <li>Applicant information, scores for the various examinations should all be entered without fail.</li> </ul>
2	Japanese essay (Reason for app	lying)	Electronic file (Word or PDF)	Applicants must submit an essay describing their motivation for applying, the academic fields they are interested in, and their desired career path after graduation. This should be written in Japanese, around 500 characters. (Free form)
3	Facial photo		Electronic file (PDF, JPG, GIF, or PNG)	<ul> <li>It should be the size shown below, and include margins from the border to the head of 5-7 mm.</li> <li>It should be taken as a front-facing bust with headwear removed, and within three months prior to applying. (If headwear is used for religious reasons, it will be allowed as long as the face is shown clearly.)</li> <li>It should have an image resolution of 150 dpi or greater. An image of the photo</li> </ul>
4		First year	(PDF, JPC	<ul> <li>Applicants must submit a copy of an academic transcript for each academic year that is issued by the principal of the applicant's graduating <b>upper secondary school</b>, and based on the curricula entered in the applicant information.</li> <li>Applicants from the Indian education system must submit an academic transcript for the three years from 10th through 12th year of accordery school</li> </ul>
5	Academic transcript	Second year	Electronic file (PDF, JPG, GIF, or PNG; 150 dpi or greater)	<ul> <li>year of secondary school.</li> <li>Applicants must submit a transcript for the third year terms that have been completed by the time of submission.</li> <li>The academic transcript must include the name of the high school, and the school's official seal or a signature by the school's principal.</li> <li>If the academic transcript is not written in Japanese or English, then applicants must also submit an electronic file of a Japanese</li> </ul>
6		Third year	or greater)	<ul> <li>then applicants must also submit an electronic file of a Japanese or English translation of the transcript.</li> <li>Anyone may perform the translation, but the translation must contain the official seal of the organization that performed the translation, or the translator him/herself must sign it by hand.</li> <li>If possible at the time of application, high school final examination results should be included.</li> </ul>

7	Certification of completion		<ul> <li>A certificate of completion or of qualification.</li> <li>Among the applicants who meet the conditions in "II Application Qualifications 4)", those who have completed (1) should submit the certificate of completion from their graduating upper secondary school that was issued by that school's principal, and those that acquired the qualification in (2) should submit a copy of that certificate of qualification.</li> <li>Applicants must submit a copy of the original that includes an</li> </ul>
8	EJU (Examination for Japanese University Admission for International Students) score report	Electronic f	<ul> <li>Applicants must submit a copy of the original that mendees an official seal in an electronic file.</li> <li>Applicants must submit a copy of the score report from one of the following test sessions in an electronic file: 2nd session in 2016, 1st session in 2017, 2nd session in 2017, 1st session in 2018</li> <li>If applicants will use the score from the 1st session in 2018, then they must submit a copy of the examination voucher instead.</li> </ul>
9	Score report from English qualification examination such as <i>TOEIC</i> <sup>®</sup> L&R	Electronic file (PDF, JPG, GIF, or PNG; 150 dpi or greater)	<ul> <li>Applicants must submit a copy of the score report from the <i>TOEIC</i><sup>®</sup> L&amp;R, <i>TOEFL</i><sup>®</sup>PBT, <i>TOEFL iBT</i><sup>®</sup>, or IELTS (Academic Module) tests taken <u>since June 26, 2016</u> in an electronic file.</li> <li>The score report must include the applicant's name, date of birth, and a photo.</li> <li>The <i>TOEIC</i><sup>®</sup> L&amp;R IP test, <i>TOEFL ITP</i><sup>®</sup> test or IELTS (General Training Module) test will not be accepted.</li> </ul>
10	JLPT (Japanese-Language Proficiency Test) score report	150 dpi or greater)	<ul> <li>Applicants who have not taken the EJU Japanese as a Foreign Language examination may not apply without submitting their JLPT score report.</li> <li>Applicants who have taken the EJU Japanese as a Foreign Language examination should also submit their JLPT score report if they have one.</li> <li>Applicants may submit a copy of the score report from one of the following test sessions in an electronic file: 1st session in 2016, 2nd session in 2016, 1st session in 2017, 2nd session in 2017</li> </ul>
11	Consent form *This form is required for applicants who are public employees or corporate employees only.		<ul> <li>The faculties accepting public employees and corporate employees are as follows: Faculty of Science, Faculty of Engineering, and Faculty of Agriculture.</li> <li>The public employees and corporate employees must submit the consent form signed by their employers in an electronic file.</li> <li>Please download the designated form from the ABP Website.</li> </ul>

\*TOEIC, TOEFL, TOEFL iBT and TOEFL ITP are registered trademark of Educational Testing Service (ETS). This publication is not endorsed or approved by ETS.

### 2. Faculties and departments available for applications

The faculties and departments available for applications are shown in Table 2 on Page 12. Dual application is not allowed.

### 3. Application website

Applications for the Asia Bridge Program entrance examination are all done online. Applicants should apply by following the on-screen directions from the online application website. The online application website will be open only during the application period. For details, please visit the following website.

http://www.abp.icsu.shizuoka.ac.jp If the application process does not go smoothly due to system bugs or errors, applicants should email abpquery@suml.cii.shizuoka.ac.jp

## 4. Application period

Monday, June 25 – Friday, July 6, 2018 (Applications are accepted until noon Japan Standard Time on July 6.)

## 5. Schedule from application until enrollment

See the description for each item for more details.

Procedure	Schedule / Period
Application	Monday, June 25 - Friday, July 6, 2018 (until noon, JST)
First selection results announcement Notification of interview date (by test voucher)	Thursday, August 9, 2018 (at noon, JST) Friday, August 10, 2018
Coordination of Skype connection test dates	Friday, August 10 to Wednesday, August 15, 2018
Skype connection test	Thursday, August 16 or Friday, August 17, 2018
Interview examination	Tuesday, August 21 or Wednesday, August 22, 2018
Second selection results announcement	Friday, August 31, 2018 (at noon, JST)
University registration	Late September 2018
Enrollment day	Monday, October 1, 2018

### V Selection Methods

### 1. Selection methods & point distribution

### **First selection**

The first selection will be made according to the number of points or grades shown in the following tables for Japanese language proficiency (Japanese as a Foreign Language (EJU) or JLPT), subject examinations (EJU), and English language qualification examinations.

Applicants will not pass the first selection if they fail to attain scores of 50% or greater (for the Faculty of Education, Faculty of Science, and Faculty of Engineering) or 60% or greater (for the Faculty of Agriculture) for each scoring classification (1) as described on Pages 6-7.

Japanese language proficiency benchmarks

	Japanese language proficiency benchmark		
Faculties and Departments	(Requires one of the	(Requires one of the benchmarks to be met)	
Faculties and Departments	EJU	JLPT	
	Japanese as a foreign language	JLPI	
Faculty of Education	240 points or greater	Pass N1	
Faculty of Science	220 points or greater	Pass N1 or N2, or 135 points	
Faculty of Science	220 points of greater	or greater in N3	
Faculty of Engineering	180 points or greater	Pass N1, N2, or N3, or 135 points	
Faculty of Engineering	180 points of greater	or greater in N4	
Faculty of Agriculture	220 points or greater	Pass N1 or N2, or 135 points	
Faculty of Agriculture		or greater in N3	

# Second selection

Applicants who pass the first selection will be evaluated according to the following selection methods and point distributions after taking an interview examination.

# 1) Faculty of Education

	Training Course for School Teachers			
	Applicants who pass the first selection will pass this second selection according to the re of their Examination for Japanese University Admission for International Students (E their English language qualification examination, and their interview examination. language used in the interview examination will be Japanese. The totals for the (1) examinations and (2) interview examination shown in the follow table will be calculated independently from each other, and applicants must attain 509 both portions as the minimum requirement to pass the selection. Applicants will be sele comprehensively in order of their achievements.			ional Students (EJU), ew examination. The own in the following as must attain 50% of
Selection methods & point distribution		Point divisions	Subjects (EJU and English) & interview examination	Point distribution
		(1) Examinations	Mathematics (course 1 or 2) Japan and the World	200 points 200 points
		(500 points)	English qualification examination	100 points
		(2) Interview examination (500 points)	Interview examination	500 points
	Regarding the English qualification examinations, the total possible scores for each examination are converted to the scale of 100% (100 maximum points for each).			

# 2) Faculty of Science

Denertmente	Department of Mathematics, Department of Physics,					
Departments	Department of Chemistry, Department of Geosciences					
Selection methods	of their their E languag examin speciali The tot will be portion	Examination for Japanese nglish language qualification ges used in the interview ex- ation will include an oral ization). als for (1) academic ability and calculated independently fr	on will pass this second selection a University Admission for Internat on examination, and their intervie amination will be Japanese and E examination (with questions re- nd (2) communication skills shown om each other, and applicants mu nent to pass the selection. Applic chievements.	ional Students ( ew examination inglish. The inte lated to the fie in the following st attain 50% of	(EJU), a. The erview eld of g table f both	
& point distribution		Point divisions	Subjects (EJU and English) & interview examination	Point distribution		
		(1) Academic ability	Mathematics (course 2)	200 points		
		(400 points)	Science	200 points		
	(2) Communication skills (300 points)	(2) Communication skills	English qualification examination	100 points		
		Interview examination (including oral examination)	200 points			
	Regarding the English qualification examinations, the total possible scores for each examination are converted to the scale of 100% (100 maximum points for each).			each		

# 3) Faculty of Engineering

Department of Mechanical Engineering, Department of Electrical and Electronic					
Departments	Engineering, Department of Electronics and Materials Science,				
1	Department of Applied Chemistry and Biochemical Engineering, Department of				
	Mathematical and Systems Engineering				
	Applie	cants who pass the first sele	ction will pass this second select	ion according	to the
	results	s of their Examination for Jap	banese University Admission for In	nternational Stu	udents
	(EJU)	, their English language quali	ification examination, and their in	terview examir	nation.
			iew examination will be Japanes		
			an oral examination (with question	-	
		cialization).			
	-	, ,	nic ability and (2) communication	n skills shown	in the
		As a rule, the totals for (1) academic ability and (2) communication skills shown in the following table will be calculated independently from each other, and applicants must attain			
	50% of both portions as the minimum requirement to pass the selection. Applicants will be selected comprehensively in order of their achievements.				
Selection methods	selecte	ed comprehensivery in order (	of their achievements.		
& point					
distribution		Point divisions	Subjects (EJU and English) &	Point	
			interview examination	distribution	
		(1) Academic ability	Mathematics (course 2)	200 points	
		(400 points)	Science	200 points	
			English qualification	100	
		(2) Communication skills	examination	100 points	
		(300 points)	Interview examination		
			(including oral examination)	200 points	
	Regar	ding the English qualification	on examinations, the total possi	ble scores for	each
	examination are converted to the scale of 100% (100 maximum points for each).				

# 4) Faculty of Agriculture

Departments	Department of Bioresource Sciences, Department of Applied Life Sciences			
Selection methods	results of their Examination for (EJU), their English language The language used in the examination will include an specialization). The points earned for (1) aca following table will be calcula	a selection will pass this second sele or Japanese University Admission for qualification examination, and their i interview examination will be Jap oral examination (with questions r ademic ability and (2) communication ated, and applicants must attain 60% the selection. Applicants will be selection.	International Students interview examination. banese. The interview related to the field of on skills shown in the of both portions as the	
& point distribution	Point divisions	Subjects (EJU and English) & interview examination	Point distribution	
	(1) Academic ability	Mathematics (course 2)	200 points	
	(400 points)	Science	200 points	
	(2) Communication skills	English qualification ls examination	100 points	
	(400 points)	Interview examination (including oral examination)	300 points	
	Regarding the English qualification examinations, the total possible scores for examination are converted to the scale of 100% (100 maximum points for each).			

## 2. Methods, Period, and Venue for the Second Selection Interview Examination

## 1) Applicants from outside of Japan

The interview examination will be held with individual applicants via an internet connection (Skype). The dates and times for the Skype connection test will be decided through coordination with the applicants who passed the first selection. The details will be sent via email to each applicant. Applicants from outside of Japan should prepare an environment where they can achieve a fast, stable internet connection, and prepare for the interview by acquiring a Skype ID.

If an interview examination cannot be completed during the periods specified by the faculties due to poor connections, then the applicant will be considered absent from the interview examination.

Procedure	Schedule / Period
First selection results announcement	Thursday, August 9, 2018 (at noon, JST)
Notification of interview date (by test voucher)	Friday, August 10, 2018
Coordination of Skype connection test dates	Friday, August 10 to Wednesday, August 15, 2018
Skype connection test	Thursday, August 16 or Friday, August 17, 2018
Interview examination	Tuesday, August 21 or Wednesday, August 22, 2018

### 2) Applicants from within Japan

The interview examination will be held at either the Shizuoka or the Hamamatsu campus. The details will be sent via email to the applicants who passed the first selection.

Procedure	Schedule / Period
First selection results announcement	Thursday, August 9, 2018 (at noon, JST)
Notification of interview date (by test voucher)	Friday, August 10, 2018
Interview examination	Tuesday, August 21 or Wednesday, August 22, 2018

### VI Results Announcements

The results for the first and second selection will be sent via email to applicants according to the following schedule. Furthermore, applicants who pass the second selection will be announced on the website (http://www.abp.icsu.shizuoka.ac.jp).

Procedure	Schedule / Period
First selection results announcement	Thursday, August 9, 2018 (at noon, JST)
Second selection results announcement	Friday, August 31, 2018 (at noon, JST)

# VII University Registration and Date of Enrollment

Details will be sent individually via email to the students who have been accepted. If all the required documents for the admission process have not been submitted by the specified dates, the admission decision may be revoked even after the offer is granted.

Procedure	Schedule / Period	
University registration	Late September 2018	
Enrollment day	Monday, October 1, 2018	

### VIII Important Points

### 1. Examination fees and tuition

Entrance examination fees and enrollment fees will not be collected. Tuition will not be collected for the first year. Furthermore, tuition for the second through fourth years will have 50% or 100% of the totals waived depending on student performance. In addition to tuition, other required expenses may arise.

	mitial expenses related to emoniment (outline)			
	Event	Expenses		
1	<ul> <li>Various expenses related to student life</li> <li>Premiums for Disaster and Accident Insurance for Student Education and Research, Student liability insurance, etc. (for four years)</li> <li>Student Welfare Society fees (for four years)</li> <li>Supporters' Association membership fees</li> <li>Academic conference expenses</li> <li>Graduation party expenses, etc.</li> </ul>	Approximately ¥20,000 - ¥40,000 (These differ according to the faculty and department. Other insurance premiums related to housing may arise.)		
2	Group purchase of notebook computers	<ul> <li>Faculty of Engineering Approximately ¥100,000 - ¥150,000</li> <li>(Students accepted into the university will be contacted individually, but this is a preview of the program.)</li> </ul>		

### 2. Initial expenses related to enrollment (outline)

\*After completing registration, there may arise a need to pay fees and submit additional documents other than those listed above.

### 3. Living expenses after enrollment

Living expenses after enrollment are the responsibility of each student. Approximately ¥70,000 is required monthly for food, dormitory and miscellaneous expenses.

For more on dormitories, see the following website. http://www.icsu.shizuoka.ac.jp/japan/0112.htm

### 4. Contact Information

(Office)Shizuoka University, International Affairs Section(Email address)abpquery@suml.cii.shizuoka.ac.jp

### 5. Requests for disclosure of examination results

Applicants who were not selected during the second selection can make a request for the disclosure of their entrance examination results. Please email the following office within the request period. The office will explain the request procedure and the documents required. Any request made outside of the specified period will not be accepted.

(Office)	Shizuoka University, International Affairs Section			
(Request period)	Thursday, November 15 - Friday, December 14, 2018 (until noon, JST)			
(Email address)	abpquery@suml.cii.shizuoka.ac.jp			

### 6. Handling personal information

Personal information is handled as follows in accordance with the "Act on the Protection of Personal Information Held by Incorporated Administrative Agencies, etc." and the "Shizuoka University Code on Personal Information Management".

- Personal information recorded on all application documents will be used for a. Selecting new students (processing applications and making selections), b. Announcing the results, c. Processing registration, and d. Investigating admission selection methods and university education improvements.
- (2) The examination results used in admission selection will be used in creating materials for the investigation of future admission selection methods.
- (3) Personal information of new students will be used for work related to a. Educational affairs (the university registrar, graduate advising, etc.), b. Student support (health care, tuition exemption & scholarship applications, employment support, etc.), c. Tuition collection, and d. Investigation of admission selection methods and university education improvements.
- (4) When used for the various duties in (1) and (2) above, some of the duties may be undertaken by contractors entrusted by the university. The contractors will be provided some or all personal information only to the extent needed to fulfill their contracted duties.

## [Table 1] Treatment of GCE A Levels

Applicants who have the United Kingdom's General Certificate of Education Advanced Level, which is recognized as a qualification for admission to university, are recognized as qualified to apply as long as they will be 18 years old by September 30, 2018. The number of subjects and evaluations required for application are as follows.

GCE A Level Delicillar	RS by Faculty
Faculty of Humanities and Social Sciences	<ul> <li>A Level examinations in three subjects</li> <li>Two subjects in AS Level examinations will be considered equivalent to one subject in A Level examinations.</li> <li>Furthermore, only AS Level examinations will not be approved.</li> <li>Only results of passing (an evaluation of E or greater) will be considered.</li> </ul>
Faculty of Education	<ul> <li>A Level examinations in three subjects</li> <li>Two subjects in AS Level examinations will be considered equivalent to one subject in A Level examinations.</li> <li>Only results of passing (an evaluation of E or greater) will be considered.</li> </ul>
Faculty of Informatics	<ul> <li>A Level examinations in three or more subjects</li> <li>Two subjects in AS Level examinations will be considered equivalent to one subject in A Level examinations. Furthermore, only AS Level examinations will not be approved.</li> <li>Only results of passing (an evaluation of E or greater) will be considered.</li> <li>The Department of Computer Science requires a subject related to mathematics, while the Department of Behavior Informatics requires subjects related to mathematics and psychology. (All must be A Level examinations)</li> </ul>
Faculty of Science	<ul> <li>A Level examinations in one or more subjects</li> <li>Two subjects in AS Level examinations will be considered equivalent to one subject in A Level examinations.</li> <li>Only results of passing (an evaluation of E or greater) will be considered.</li> </ul>
Faculty of Engineering	<ul> <li>A Level examinations in three or more subjects</li> <li>Two subjects in AS Level examinations will be considered equivalent to one subject in A Level examinations.</li> <li>Furthermore, only AS Level examinations will not be approved.</li> <li>Only results of passing (an evaluation of E or greater) will be considered.</li> <li>The faculty requires subjects related to mathematics and science (physics or chemistry).</li> </ul>
Faculty of Agriculture	<ul> <li>A Level examinations in one subject</li> <li>AS Level examinations will not be approved.</li> <li>Only results of passing (an evaluation of E or greater) will be considered.</li> <li>Only science (physics, chemistry, or biology) will be considered.</li> </ul>

### GCE A Level Benchmarks by Faculty

## [Table 2] Subject Examinations Required for Application

If students have not taken examinations for the subjects shown below, they may not apply. However, submitting a Japanese -Language Proficiency Test (JLPT) score for an examination taken within the past two years instead of an EJU examination score will meet the application requirements only for the Japanese as a Foreign Language of the EJU.

Faculties	Departments & Courses	Examination for Japanese University Admission for International Students (EJU) or Japanese-Language Proficiency Test (JLPT)				
		Japanese as aJapan andScienceMaForeign Languagethe WorldScienceMa		Mathematics	English qualification examination	
		<b>EJU</b> (Listening, Listening-Reading, Reading: (on a 400- point scale) / <b>JLPT</b>	(On a 200-point scale for each) (Examinations may be taken in English)			
Faculty of Education	Training Course for School Teachers	0	0		Course 1 or 2	
	Department of Mathematics	0		Choose two from physics, chemistry, or biology	Course 2	Any one of the following: TOEIC <sup>®</sup> L&R TOEFL <sup>®</sup> PBT TOEFL <i>iBT®</i> IELTS (Academic Module)
Faculty o	Department of Physics	0		Physics is required Choose one other elective	Course 2	
Faculty of Science	Department of Chemistry	0		Chemistry is required Choose one other elective	Course 2	
CD	Department of Geosciences	0		Choose two from physics, chemistry, or biology	Course 2	
Faculty of Engineering	Department of Mechanical Engineering	0		Physics & chemistry	Course 2	
	Department of Electrical and Electronic Engineering	0		Physics & chemistry	Course 2	
	Department of Electronics and Materials Science	0		Physics & chemistry	Course 2	
	Department of Applied Chemistry and Biochemical Engineering	0		Physics & chemistry	Course 2	
	Department of Mathematical and Systems Engineering	0		Physics & chemistry	Course 2	
Faculty of Agriculture	Department of Bioresource Sciences	0		Choose two from physics, chemistry, or biology	Course 2	
	Department of Applied Life Sciences	0		Choose two from physics, chemistry, or biology	Course 2	