



**THE Hong Kong POLYTECHNIC UNIVERSITY**  
**DEPARTMENT OF BUILDING AND REAL ESTATE**

## **Senior Year Intake into 4-year Degree Programme**

**BSc (Hons) in Building Engineering & Management**

**BSc (Hons) in Property Management**

**BSc (Hons) in Surveying**

**For Student Intake 2020-2021**

**September 2020**

**This Programme Requirement Document is subject to review and changes, which the programme offering University / Faculty / Department / School can, decide to make from time to time. Students will be informed of the changes as and when appropriate.**

**This document should be read in conjunction with the Academic Registry Handbook on Academic Regulations and Procedures.**

Department of Building and Real Estate  
Faculty of Construction and Environment

September 2020

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# **BSc (Hons) in Building Engineering & Management**

## 1. **General Information**

### *Summary of Programme Details:*

Name of University:	The Hong Kong Polytechnic University
Faculty:	Construction and Environment (FCE)
Department:	Building and Real Estate (BRE)
Programme:	BSc (Hons) in Building Engineering and Management (BEM)
Mode of Attendance:	Full-time
Mode of Operation:	Credit-Based Programme
Mode of Finance:	UGC Funded
Duration:	Normally two years
Total Credits Requirements:	69 credits (plus 2 training credits)
Commencing:	September 2020
Level of Award:	BSc (Hons) in Building Engineering and Management

### *Contributing Departments / Centres*

Host Department: Building and Real Estate (BRE)

Contributing Departments and Centre:

- Department of Applied Mathematics (AMA)
- English Language Centre (ELC)
- Chinese Language Centre (CLC)

### **Programme Planning Committee**

Head of the Department  
Associate Head (Teaching)  
Undergraduate Scheme Chair  
BEM Award Co-ordinator  
BEM Deputy Award Co-ordinator

## 2. Programme Aims, Objectives and Outcomes

### Programme Aims

The BEM programme aims to produce graduates who can develop into highly competent and professional building engineers for Hong Kong, China and the international market. It aims to equip students with the knowledge and ability in the production of buildings and facilities so that they will be able to contribute effectively to project and facilities management teams engaged in complex building projects.

### Programme Outcomes

Programme outcomes refer to the intellectual abilities, knowledge, skills and attributes that an all-rounded preferred graduate from BEM programme should possess.

To ensure fulfilment of the goal of developing all-round students with professional competence, it is required that outcome statements encompass the following two categories of learning outcomes:

#### **Professional/Academic Knowledge and Competence**

Upon successful completion of the programme, the graduate is expected to have acquired the ability:-

- (i) To possess knowledge of building engineering principles, processes and methods for the successful completion of all types of construction projects.
- (ii) To use the techniques, skills and engineering principles for different types of construction.
- (iii) To apply construction management knowledge and skills in personnel, financial and operational practices and communication aspects required for efficient building production.
- (iv) To identify, structure and analyse diverse problems arising from the changing social, economic, environmental and technological pressures.
- (v) To solve identified construction problems with appropriate solutions.
- (vi) To evaluate alternative strategic options.
- (vii) To select appropriate construction materials, practices and methods in compliance with sustainable development.
- (viii) To exercise professional judgement in the consideration of alternatives in complex situations.

## **Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Degree scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) To possess skills to identify, analyse and solve problems.
- (ii) To have an understanding of professional, social and ethical responsibilities.
- (iii) To communicate effectively.
- (iv) To reflect on knowledge gap for life time learning.
- (v) To contribute as team member and to lead effectively.
- (vi) To identify contemporary issues.

**Note:** PolyU aspires to develop all its students as all-round graduates with professional competence, and has identified a set of highly valued graduate attributes can be developed through the curricular activities of this programme, some (including the all-rounded attributes of 'to reflect on knowledge gap for life time learning' and 'to identify contemporary issues' contained therein in the curriculum mappings of the Majors in BSc (Hons) in Building Engineering & Management) are primarily addressed through co-curricular activities offered by faculties, departments, and various teaching and learning support units of the University. Students are encouraged to make full use of such opportunities to develop these attributes.

## **Graduate attributes and institutional learning outcomes for undergraduate degree programmes**

### **Competent professional:**

Graduates should be able to integrate and to apply in-depth discipline knowledge and specialised skills that are fundamental to functioning effectively as an entry-level professional (*professional competence*); understand the global trends and opportunities related to their professions (*global outlook*); and demonstrate entrepreneurial spirit and skills in their work, including the discovery and use of opportunities, and experimentation with novel ideas (*entrepreneurship*).

### **Critical thinker:**

Graduates should be able to examine and critique the validity of information, arguments, and different viewpoints, and to reach sound judgments on the basis of credible evidence and logical reasoning.

### **Innovative problem solver:**

Graduates should be able to identify and define problems in both professional and day-to-day contexts, and produce innovative solutions to solve problems.

**Effective communicator:**

Graduates should be able to comprehend and communicate effectively in English and Chinese, where appropriately, orally and in writing, in professional and day-to-day contexts.

**Lifelong learner:**

Graduates should be able to recognise the need for continual learning and self-improvement, and be able to plan, manage and evaluate their own learning in pursuit of self-determined goals.

**Ethical leader:**

Graduates should have an understanding of leadership and be prepared to serve as a leader and a team player (*leadership and teamwork*); demonstrate self-leadership and psychosocial competence in pursuing personal and professional development (*intrapersonal competence*); be capable of building and maintaining relationship and resolving conflicts in group work situations (*interpersonal competence*); and demonstrate ethical reasoning in professional and day-to-day contexts (*ethical reasoning*).

**Socially responsible global citizen:**

Graduates should have the capacity for understanding different cultures and social development needs in the local, national and global contexts (*interest in culture and social development*); and accept their responsibilities as professionals and citizens to society, their own nation and the world (*social, national, and global responsibility*).

# **BSc (Hons) in Property Management**

## 1. **General Information**

### *Summary of Programme Details:*

Name of University:	The Hong Kong Polytechnic University
Faculty:	Construction and Environment (FCE)
Department:	Building and Real Estate (BRE)
Programme:	BSc (Hons) in Property Management (PMT)
Mode of Attendance:	Full-time
Mode of Operation:	Credit-Based Programme
Mode of Finance:	UGC Funded
Duration:	Normally two years
Total Credits Requirements:	72 credits (plus 2 training credits)
Commencing:	September 2020
Level of Award:	BSc (Hons) in Property Management

### *Contributing Departments / Centres*

Host Department: Building and Real Estate (BRE)

Contributing Departments and Centre:

- Applied Social Sciences (APSS)
- English Language Centre (ELC)
- Chinese Language Centre (CLC)

### **Programme Planning Committee**

Head of the Department  
Associate Head (Teaching)  
Undergraduate Scheme Chair  
PMT Award Co-ordinator

## 2. Programme Aims, Objectives and Outcomes

### Programme Aims

The PMT Programme aims to provide students with a broad-based and inter-disciplinary education in the context of property and housing management as well as facilities and corporate asset management and to develop them as all-rounders who can understand and work with the interplay between social, economic, political, legal, technological and commercial issues and problems incidental to the property management. Students are equipped with the ability to identify the issues and to solve the strategic and operational problems in property management. It is intended to prepare students for a professional career in property management in Hong Kong and the region with the essential knowledge and prerequisite skills for the profession.

### Programme Outcomes

Programme outcomes refer to the intellectual abilities, knowledge, skills and attributes that an all-rounded preferred graduate from PMT programme should possess.

To ensure fulfilment of the goal of developing all-round students with professional competence, it is required that outcome statements encompass the following two categories of learning outcomes:

#### **Professional/Academic Knowledge and Competencies**

Upon successful completion of the programme, the students are expected to attain the following abilities:-

- (i) To apply professional and vocational knowledge in property management, including its operational logistics and multi-disciplinary facets.
- (ii) To identify and solve problems in property management practices.
- (iii) To communicate effectively with social skills as a competent property manager.
- (iv) To practise as a professional property manager in compliance with the legal and ethical requirements of the profession.
- (v) To appreciate the multi-disciplinary dimensions of property management practices and the interests of the stakeholders in the industry.
- (vi) To explore options for the property management practices with creative and critical mind-set.

## **Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Degree scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) To possess skills to identify, analyse and solve problems.
- (ii) To have an understanding of professional, social and ethical responsibilities.
- (iii) To communicate effectively.
- (iv) To reflect on knowledge gap for life time learning.
- (v) To contribute as team member and to lead effectively.
- (vi) To identify contemporary issues.

**Note:** PolyU aspires to develop all its students as all-round graduates with professional competence, and has identified a set of highly valued graduate attributes that can be developed through the curricular activities of this programme, some (including the all-rounded attributes such as ‘to reflect on knowledge gap for life time learning and to identify contemporary issues’ contained therein in the curriculum mappings of the Majors in BSc (Hons) in Building Engineering & Management, BSc (Hons) in Property Management and BSc (Hons) in Surveying ) are primarily addressed through co-curricular activities offered by faculties, departments, and various teaching and learning support units of the University. Students are encouraged to make full use of such opportunities to develop these attributes.

## **Graduate attributes and institutional learning outcomes for undergraduate degree programmes**

### **Competent professional:**

Graduates should be able to integrate and to apply in-depth discipline knowledge and specialised skills that are fundamental to functioning effectively as an entry-level professional (*professional competence*); understand the global trends and opportunities related to their professions (*global outlook*); and demonstrate entrepreneurial spirit and skills in their work, including the discovery and use of opportunities, and experimentation with novel ideas (*entrepreneurship*).

### **Critical thinker:**

Graduates should be able to examine and critique the validity of information, arguments, and different viewpoints, and to reach sound judgments on the basis of credible evidence and logical reasoning.

### **Innovative problem solver:**

Graduates should be able to identify and define problems in both professional and day-to-day contexts, and produce innovative solutions to solve problems.

**Effective communicator:**

Graduates should be able to comprehend and communicate effectively in English and Chinese, where appropriately, orally and in writing, in professional and day-to-day contexts.

**Lifelong learner:**

Graduates should be able to recognise the need for continual learning and self-improvement, and be able to plan, manage and evaluate their own learning in pursuit of self-determined goals.

**Ethical leader:**

Graduates should have an understanding of leadership and be prepared to serve as a leader and a team player (*leadership and teamwork*); demonstrate self-leadership and psychosocial competence in pursuing personal and professional development (*intrapersonal competence*); be capable of building and maintaining relationship and resolving conflicts in group work situations (*interpersonal competence*); and demonstrate ethical reasoning in professional and day-to-day contexts (*ethical reasoning*).

**Socially responsible global citizen:**

Graduates should have the capacity for understanding different cultures and social development needs in the local, national and global contexts (*interest in culture and social development*); and accept their responsibilities as professionals and citizens to society, their own nation and the world (*social, national, and global responsibility*).

# **BSc (Hons) in Surveying**

## 1. **General Information**

### *Summary of Programme Details:*

Name of University:	The Hong Kong Polytechnic University
Faculty:	Construction and Environment (FCE)
Department:	Building and Real Estate (BRE)
Programme:	BSc (Hons) in Surveying (SUV)
Mode of Attendance:	Full-time
Mode of Operation:	Credit-Based Programme
Mode of Finance:	UGC Funded
Duration:	Normally two years
Total Credits Requirements:	72 credits (plus 2 training credits)
Commencing:	September 2020
Level of Award:	BSc (Hons) in Surveying

### *Contributing Departments / Centres*

Host Department: Building and Real Estate (BRE)

Contributing Departments and Centre:

- English Language Centre (ELC)
- Chinese Language Centre (CLC)

### **Programme Planning Committee**

Head of the Department  
Associate Head (Teaching)  
Undergraduate Scheme Chair  
SUV Award Co-ordinator  
SUV Deputy Award Co-ordinator

## 2. Programme Aims, Objectives and Outcomes

### Programme Aims

The Programme aims to prepare students with fundamental knowledge and skills in the inter-disciplinary professions of land, property and construction for their immediate employability and lifelong learning. The Programme underpins surveying studies with the disciplines of economics, law, management and technology. Graduates will enter the professions of building surveying, quantity surveying, planning & development, property and facility management or general practice surveying as graduate trainees but with full potentials to readily become full-fledged professional surveyors and finally take leading and strategic roles in the profession and business of land, property and construction and make contributions to the community through their chosen professional services.

### Programme Outcomes

Programme outcomes refer to the intellectual abilities, knowledge, skills and attributes that an all-round preferred graduate from surveying programme should possess.

To ensure fulfilment of the goal of developing all-round students with professional competence, it is required that outcome statements encompass the following two categories of learning outcomes:

#### **Professional/Academic Knowledge and Competencies**

Upon successful completion of the programme, the students are expected to attain the following abilities:-

- (i) To comprehend and identify issue and problems concerning land, property and construction at project level.
- (ii) To comprehend and identify issue and problems concerning land, property and construction at corporate level.
- (iii) To comprehend and identify issue and problems concerning land, property and construction at industry level.
- (iv) To comprehend and identify issues and problems concerning land, property and construction at macro social-economic and political level.
- (v) To advise clients through rendering surveying services.
- (vi) To identify, formulate and solve problems related to the surveying profession and real estate industry.
- (vii) To analyse and interpret data of the industry
- (viii) To formulate and implement strategies, policies and solutions for sustainable development and construction.

## **Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Degree scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) To possess skills to identify, analyse and solve problems.
- (ii) To have an understanding of professional, social and ethical responsibilities.
- (iii) To communicate effectively.
- (iv) To reflect on knowledge gap for life time learning.
- (v) To contribute as team member and to lead effectively.
- (vi) To identify contemporary issues.

**Note:** PolyU aspires to develop all its students as all-round graduates with professional competence, and has identified a set of highly valued graduate attributes that can be developed through the curricular activities of this programme, some (including the all-rounded attributes such as ‘to reflect on knowledge gap for life time learning and to identify contemporary issues’ contained therein in the curriculum mappings of the Majors in BSc (Hons) in Building Engineering & Management, BSc (Hons) in Property Management and BSc (Hons) in Surveying ) are primarily addressed through co-curricular activities offered by faculties, departments, and various teaching and learning support units of the University. Students are encouraged to make full use of such opportunities to develop these attributes.

## **Graduate attributes and institutional learning outcomes for undergraduate degree programmes**

### **Competent professional:**

Graduates should be able to integrate and to apply in-depth discipline knowledge and specialised skills that are fundamental to functioning effectively as an entry-level professional (*professional competence*); understand the global trends and opportunities related to their professions (*global outlook*); and demonstrate entrepreneurial spirit and skills in their work, including the discovery and use of opportunities, and experimentation with novel ideas (*entrepreneurship*).

### **Critical thinker:**

Graduates should be able to examine and critique the validity of information, arguments, and different viewpoints, and to reach sound judgments on the basis of credible evidence and logical reasoning.

### **Innovative problem solver:**

Graduates should be able to identify and define problems in both professional and day-to-day contexts, and produce innovative solutions to solve problems.

**Effective communicator:**

Graduates should be able to comprehend and communicate effectively in English and Chinese, where appropriately, orally and in writing, in professional and day-to-day contexts.

**Lifelong learner:**

Graduates should be able to recognise the need for continual learning and self-improvement, and be able to plan, manage and evaluate their own learning in pursuit of self-determined goals.

**Ethical leader:**

Graduates should have an understanding of leadership and be prepared to serve as a leader and a team player (*leadership and teamwork*); demonstrate self-leadership and psychosocial competence in pursuing personal and professional development (*intrapersonal competence*); be capable of building and maintaining relationship and resolving conflicts in group work situations (*interpersonal competence*); and demonstrate ethical reasoning in professional and day-to-day contexts (*ethical reasoning*).

**Socially responsible global citizen:**

Graduates should have the capacity for understanding different cultures and social development needs in the local, national and global contexts (*interest in culture and social development*); and accept their responsibilities as professionals and citizens to society, their own nation and the world (*social, national, and global responsibility*).

### 3. **General Entrance Requirements**

#### **Normal Applicants**

The basic entrance requirement is a Higher Diploma or Associate Degree in Construction related discipline or equivalent from a recognized institution.

#### **Selection**

Selection of applicants for admission is based on academic qualifications and other relevant qualifications. Short-listed applicants may be required to attend an interview. The purpose of the interview is to assess the applicants' :-

- Command of spoken English;
- Depth and breadth of general knowledge, and
- Motivation for entering the programme.

The final selection of students will be based on a balance of academic attainment, motivation, and the interview report, if any.

In all cases, the final decision as to the suitability of any applicant will be the sole discretion of the Head of Department.

#### 4. **Intended Learning Outcomes, Curriculum Mapping, Programme Curriculum and Progression Pattern of Programmes**

##### **BSc (Hons) in Building Engineering & Management**

###### **Subject Descriptions**

'Level' codes reflect the intellectual demand on the students. The levels of the subjects are coded according to a common coding system of the Hong Kong Polytechnic University.

<u>Level</u>		<u>Explanation</u>
2	=	Standard comparable to Year 2 of a 4-year degree Major
3	=	Standard comparable to Year 3 of a 4-year degree Major
4	=	Standard comparable to the final year of a 4-year degree Major

The University adopts a university-wide standard for subject level weighting for calculating the award GPA, and to use the weighting of 2 for Level 2 subjects; and a weighting of 3 for Level 3 and 4 subjects.

The Programme Curriculum and Examination Schedule for each academic level are detailed in Programme Curriculum Table from Stage 3 to Stage 4.

Subjects are referred by subject codes. The alphabets refer to the responsible departments whilst the three-digit reference numbers, the first digit (i.e. 2, 3 or 4) indicates the level of the subjects.

The **typical progression patterns of BSc (Hons) in Building Engineering & Management** illustrate the semesters in which these subjects are recommended to be taken, if the programme of the Major is to be completed in the minimum time.

###### **NOTE**

**\*Programme Curriculum displays the Discipline-specific Requirements (DSR) for the Major in Building Engineering & Management only.**

**Details of the General University Requirements (GUR) can be found from their respective websites provided by the University.**

## **Intended Learning Outcomes of BEM programme**

To ensure fulfilment of the goal of developing all-round students with professional competence stipulated by the University, it is required that outcome statements encompass the following two categories of learning outcomes:-

### **A. Professional/Academic Knowledge and Competence**

Upon successful completion of the programme, the graduate is expected to action the following abilities:-

- (i) To possess knowledge of building engineering principles, processes and methods for the successful completion of all types of construction projects.
- (ii) To use the techniques, skills and engineering principles for different types of construction.
- (iii) To apply construction management knowledge and skills in personnel, financial and operational practices and communication aspects required for efficient building production.
- (iv) To identify, structure and analyse diverse problems arising from the changing social, economic, environmental and technological pressures.
- (v) To solve identified construction problems with appropriate solutions.
- (vi) To evaluate alternative strategic options.
- (vii) To select appropriate construction materials, practices and methods in compliance with sustainable development.
- (viii) To exercise professional judgement in the consideration of alternatives in complex situations.

### **B. Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) To possess skills to identify, analyse and solve problems.
- (ii) To have an understanding of professional, social and ethical responsibilities.
- (iii) To communicate effectively.
- (iv) To reflect on knowledge gap for life time learning.
- (v) To contribute as team member and to lead effectively.
- (vi) To identify contemporary issues.

**Relationship between the programme intended learning outcomes (PILOs) of the BEM and the Institutional learning outcomes of PolyU**

ILOs of BEM Programme (Category A)	Institutional Learning Outcomes						
	Competent professional	Critical thinker	Effective communicator	Innovative problem solver	Lifelong learner	Ethical leader	Socially responsible global citizen
(i)	X	X	X	X		X	X
(ii)	X	X	X	X	X	X	
(iii)	X	X	X	X		X	
(iv)	X	X		X	X	X	X
(v)	X	X		X		X	
(vi)	X	X	X	X	X	X	
(vii)	X			X	X	X	X
(viii)	X	X	X	X	X	X	
ILOs of BEM Programme (Category B)	Competent professional	Critical thinker	Effective communicator	Innovative problem solver	Lifelong learner	Ethical leader	Socially responsible global citizen
(i)	X	X	X	X			
(ii)	X	X	X	X	X	X	X
(iii)	X	X	X	X	X	X	
(iv)	X			X	X		X
(v)	X	X	X	X		X	
(vi)	X	X	X	X		X	X

## Curriculum Mapping: BSc (Hons) in Building Engineering & Management

This curriculum map gives a holistic view of the degree to which each intended learning outcome will be taught and assessed in your programme.

### The following indicators (I, R, A) to show the treatment of the programme outcome in a subject:

- I (Introduced) That the learning leading to the particular intended outcome is introduced in that subject.  
 R (Reinforced) That the learning leading to the particular intended outcome is reinforced in that subject.  
 A (Assessed) That the performance which demonstrates the particular intended outcome is assessed in that subject

### Level 2 Subjects

		Subject Codes													
	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE204	AMA290												
A1	To possess knowledge of building engineering principles, processes and methods for the successful completion of all types of construction projects	I													
A2	To use the techniques, skills and engineering principles for different types of construction	IRA	IA												
A3	To apply construction management knowledge and skills in personnel, financial and operational practices and communication aspects required for efficient building production														
A4	To identify, structure and analyse diverse problems arising from the changing social, economic, environmental and technological pressures														
A5	To solve identified construction problems with appropriate solutions	RA													
A6	To evaluate alternative strategic options	IR													

	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE204	AMA290													
A7	To select appropriate construction materials, practices and methods in compliance with sustainable development															
A8	To exercise professional judgement in the consideration of alternatives in complex situations	I														
	<b>All-rounded Attributes</b>															
B1	To possess skills to identify, analyse and solve problems		IA													
B2	To have an understanding of professional, social and ethical responsibilities															
B3	To communicate effectively	I	I													
B4	To reflect on knowledge gap for life time learning															
B5	To contribute as team member and to lead effectively	I														
B6	To identify contemporary issues															

**Level 3 Subjects**

		Subject Codes															
<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing		BRE302	BRE326	BRE345	BRE350	BRE361	BRE364	BRE365	BRE366	CLC3231P	ELC3421						
A1	To possess knowledge of building engineering principles, processes and methods for the successful completion of all types of construction projects	IR			RA	RA		RA									
A2	To use the techniques, skills and engineering principles for different types of construction	IRA		IA		RA											
A3	To apply construction management knowledge and skills in personnel, financial and operational practices and communication aspects required for efficient building production		I		RA	I	RA	RA									
A4	To identify, structure and analyse diverse problems arising from the changing social, economic, environmental and technological pressures					IR		RA	RA								
A5	To solve identified construction problems with appropriate solutions	IRA	IA	IA	RA	RA	RA		RA								
A6	To evaluate alternative strategic options	R	IA		RA	R		RA	RA								

	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE302	BRE326	BRE345	BRE350	BRE361	BRE364	BRE365	BRE366	CLC3231P	ELC3421						
A7	To select appropriate construction materials, practices and methods in compliance with sustainable development	I	IA			IRA		RA									
A8	To exercise professional judgement in the consideration of alternatives in complex situations	IR						R	RA								
	<b>All-rounded Attributes</b>																
B1	To possess skills to identify, analyse and solve problems		I	IA	A	IR	RA	RA	A								
B2	To have an understanding of professional, social and ethical responsibilities	I				I		IA									
B3	To communicate effectively		I	IA	A		RA	RA	A	IRA	IRA						
B4	To reflect on knowledge gap for life time learning						R	I	IRA								
B5	To contribute as team member and to lead effectively	R	I		A	R		RA									
B6	To identify contemporary issues		I			IRA	R	R	A								

**Level 4 Subjects**

		Subject Codes															
Programme Outcomes List programme outcomes in this column in the same order as in the outcomes section for easy referencing		BRE426	BRE4281	BRE4393	BRE453	BRE461	BRE462	BRE466	BRE470								
A1	To possess knowledge of building engineering principles, processes and methods for the successful completion of all types of construction projects	IR			RA	RA	RA		IR								
A2	To use the techniques, skills and engineering principles for different types of construction	IRA	R		RA	RA	RA	A	RA								
A3	To apply construction management knowledge and skills in personnel, financial and operational practices and communication aspects required for efficient building production		RA				R		A								
A4	To identify, structure and analyse diverse problems arising from the changing social, economic, environmental and technological pressures		RA			RA	RA	RA									
A5	To solve identified construction problems with appropriate solutions	IRA		RA	RA		R	RA	R								
A6	To evaluate alternative strategic options			RA		RA	R	RA									
A7	To select appropriate construction materials, practices and methods in compliance with sustainable development			IRA		RA	RA	R									

	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE426	BRE4281	BRE4393	BRE453	BRE461	BRE462	BRE466	BRE470								
A8	To exercise professional judgement in the consideration of alternatives in complex situations	I	R				R	RA									
	<b>All-rounded Attributes</b>																
B1	To possess skills to identify, analyse and solve problems	I		A	RA	RA	RA	A	IA								
B2	To have an understanding of professional, social and ethical responsibilities				R	RA											
B3	To communicate effectively		RA	A			RA	A	A								
B4	To reflect on knowledge gap for life time learning		R				R	IRA	I								
B5	To contribute as team member and to lead effectively	RA				R	R		A								
B6	To identify contemporary issues		R		R	R	RA	A	R								

## PROGRAMME CURRICULUM OF THE PROGRAMMES

### Programme Curriculum of Major\* in Building Engineering & Management - Stage 3 of the 4-Year programme

\*Programme Curriculum shows the 62-credit Discipline-Specific Requirements (DSR) for the Major in Building Engineering & Management only. Details of the 9-credit General University Requirements (GUR) can be found from their respective websites provided by the University.

Stage 3		Curriculum							Assessment Methods		
		Timetabled Contact Hours per Week			No. of Teaching Weeks	Total Hours	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)			
Subject Code	Subject Title	Lecture	Tutorial/Seminar	Lab. (Pract.)/Project Work/ Guided Study				Subject Weighting	Credit Value	CW/CA	Exam.
CLC3231P	Chinese Communication for Construction and Land Use		3		13	39	CLC	3.0	3	100%	-
ELC3421	English for Construction and Environmental Professionals		3		13	39	ELC	3.0	3	100%	-
BRE204	Structure I	2	1	-	13	39	BRE	2.0	3	30%	70%
BRE302	Structure II	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE326	Maintenance Technology & Management	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE345	Measurement, Documentation & Estimating	2	1	-	13	39	BRE	3.0	3	60%	40%
BRE350	Project Management & Procurement	2	1	-	13	39	BRE	3.0	3	40%	60%
BRE361	Construction Technology & Materials II	2	1	-	13	39	BRE	3.0	3	40%	60%
BRE364	Construction Contract Law & Administration						BRE	3.0	3	40%	60%
BRE365	International Study*	-	-	0.8			BRE	3.0	1	100%	-
BRE366	Analytical Skills & Methods	2 (for 8 weeks)	1 (for 8 weeks)	-	8	24	BRE	3.0	2	100%	-
BRE466	Capstone Project <sup>#</sup>			1.0 (for 10 weeks)	10	184 (PW/GS)	BRE	3.0	6	100%	-
AMA290	Engineering Mathematics	2	1	-	13	39	AMA	2.0	3	40%	60%
BRE299	Work-Integrated Education (WIE)						BRE/ Employers / IC	2.0	2 training credits	100%	-

- NOTE:**
1. Students must meet the Language and Communication Requirements (LCR); otherwise the students are required to take additional LCR subjects.
  2. Students must complete and pass the 6 credits CAR subjects to meet the requirements for 9 credits GUR, and all the subjects listed in Level 2, Level 3, and Level 4 in Stages 3 and 4 prior to their graduation.
  3. Students must complete the Work-Integrated Education (WIE) with satisfactory results before they can graduate.
- # BRE466 is a **6-credit** core subject spanning across from Semester 2 of Stage 3 to Semester 1 of Stage 4.
- \* International Study Tour is to take place in the Summer Semester. Students need to commence preparation, organization and liaison work of their study tour from Semester 1 of Stage 3.

T/S = Tutorial/Seminar

Lab. (Pract.) = Laboratory (Practical)

PW = Project Work

CW = Coursework

GS = Guided Study

CA = Continuous Assessment

**Programme Curriculum of Major\* in Building Engineering & Management for Stage 4**

Stage 4		Curriculum							Assessment Methods		
		Timetabled Contact Hours per Week			No. of Teaching Weeks	Total Hours	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)			
Subject Code	Subject Title	Lecture	Tutorial/Seminar	Lab. (Pract.)/Project Work/ Guided Study				Subject Weighting	Credit Value	CW/CA	Exam.
BRE4393	Temporary Work Design	2	1	-	13	39	BRE	3.0	3	100%	-
BRE426	Geotechnical & Foundation Engineering	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE4281	Construction Engineering Management	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE453	Building Services II	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE461	Environmental Impact & Assessment	2	1	-	13	39	BRE	3.0	3	60%	40%
BRE462	Advanced Construction Technology	2	1	-	13	39	BRE	3.0	3	60%	40%
BRE470	Information Technology and Building Information Modelling for Construction	2	1		13	39	BRE	3.0	3	50%	50%

**NOTE:** Student must complete and pass all subjects listed in Level 4 prior to their graduation.

- T/S = Tutorial/Seminar
- Lab. (Pract.) = Laboratory (Practical)
- PW = Project Work
- CW = Coursework
- GS = Guided Study
- CA = Continuous Assessment

## **PROGRESSION PATTERN**

### **BSc (Hons) in Building Engineering and Management**

*Total credits for the curriculum framework for the senior year intake is 69 credits (plus 2 training credits), including 9 credits for General University Requirements, and 60 credits for Discipline-Specific Requirements. Unless otherwise specified, subjects are compulsory and carry 3 credits.*

#### **Subject Code      Subject Title**

#### **Stage 3 (Year 1) [September 2020]**

##### **Semester 1**

CLC3231P	Chinese Communications for Construction and Land Use
ELC 3421	English for Construction and Environment
BRE204	Structure I
BRE350	Project Management and Procurement
BRE361	Construction Technology & Materials II
BRE365	International Study (1 Credit) **
BRE366	Analytical Skills & Methods (2 credits)
GUR	CAR subject 1 *

##### **Semester 2**

AMA290	Engineering Mathematics
BRE302	Structure II
BRE326	Maintenance Technology & Management
BRE345	Measurement, Documentation & Estimating
BRE364	Construction Contract Law & Administration
BRE365	International Study (1 Credit), cont'd **
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)
GUR	CAR subject 2 *

##### **Summer Semester**

BRE299	Work-Integrated Education ( 2 training credits)
BRE365	International Study (1 Credit), cont'd **
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)

#### **Stage 4 (Year 2) [September 2021]**

##### **Semester 1**

BRE4393	Temporary Work Design
BRE365	International Study (1 Credit), cont'd **
BRE453	Building Services II
BRE461	Environmental Impact & Assessment
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)
BRE470	Information Technology and Building Information Modelling for Construction

## **Semester 2**

BRE426	Geotechnical & Foundation Engineering
BRE4281	Construction Engineering Management
BRE4393	Temporary Work Design (cont'd)
BRE462	Advanced Construction Technology
GUR	Service Learning

### **Notes:**

1. \* Senior year intake students need to take 2 CAR subjects, which must be different from the CAR subjects taken during their study of Higher Diploma or Associate Degree. In the meantime, the students must meet the language requirements (English reading, writing; Chinese reading, Writing), and China-related study through CAR subjects, if not yet during their previous study. The student can take CAR subjects in any semester before graduation.
2. \*\* Planning for study tour or comparative international study shall be commenced from year 1, semester 1. The study tour or field study shall be completed during the Semester 1 of year 2.
3. \*\*\* The Department reserves the rights to review/revise the subjects offered and time of offer.

## **BSc (Hons) in Property Management**

### **Subject Descriptions**

'Level' codes reflect the intellectual demand on the students. The levels of subjects are coded according to a common coding system of the Hong Kong Polytechnic University.

<u>Level</u>		<u>Explanation</u>
1	=	Standard comparable to Year 1 of a 4-year degree Major
2	=	Standard comparable to Year 2 of a 4-year degree Major
3	=	Standard comparable to Year 3 of a 4-year degree Major
4	=	Standard comparable to the final year of a 4-year degree Major
5-6	=	Standard at postgraduate level

The University adopts a university-wide standard for subject level weighting for calculating the award GPA, and to use the weighting of 2 for Level 1 and 2 subjects; and a weighting of 3 for Level 3 and 4 subjects.

The Programme Curriculum and Assessment Methods for each academic level are detailed in Programme Curriculum Table from Stage 1 to Stage 4.

Subjects are referred by subject codes. The alphabets refer to the responsible departments whilst the three-digit reference numbers, the first digit (i.e. 1, 2, 3 or 4) indicates the level of the subjects.

The **typical progression patterns of BSc (Hons) in Property Management** illustrate the semesters in which these subjects are recommended to be taken, if the programme of the Major is to be completed in the minimum time.

'*Electives*' are those subjects which are optional. These give students some choices in composing their study programme.

### **NOTE**

**\*Programme Curriculum displays the Discipline-specific Requirements (DSR) for the Major in Property Management only.**

**Details of the General University Requirements (GUR) can be referred to their respective websites provided by the University.**

## **Intended Learning Outcomes of PMT programme**

To ensure fulfilment of the goal of developing all-round students with professional competence stipulated by the University, it is required that outcome statements encompass the following two categories of learning outcomes:-

### **A. Professional/Academic Knowledge and Competence**

Upon successful completion of the programme, the graduate is expected to action the following abilities:-

- (i) To apply professional and vocational knowledge in property management, including its operational logistics and multi-disciplinary facets.
- (ii) To identify and solve problems in property management practices.
- (iii) To communicate effectively with social skills as a competent property manager.
- (iv) To practice as a professional property manager in compliance with the legal and ethical requirements of the profession.
- (v) To appreciate the multidisciplinary dimensions of property management practices and the interests of the stakeholders in the industry.
- (vi) To explore options for the property management practices with creative and critical mind-set.

### **B. Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) To possess skills to identify, analyse and solve problems.
- (ii) To have an understanding of professional, social and ethical responsibilities.
- (iii) To communicate effectively.
- (iv) To reflect on knowledge gap for life time learning.
- (v) To contribute as team member and to lead effectively.
- (vi) To identify contemporary issues.

**Relationship between the programme intended learning outcomes (PILOs) of the PMT and the Institutional learning outcomes of PolyU**

ILOs of BEM Programme (Category A)	Institutional Learning Outcomes						
	Competent professional	Critical thinker	Effective communicator	Innovative problem solver	Lifelong learner	Ethical leader	Socially responsible global citizen
(i)	X	X		X		X	
(ii)	X	X		X	X		
(iii)	X	X	X	X			
(iv)	X	X		X	X	X	X
(v)	X	X	X	X		X	X
(vi)	X	X	X	X	X		
ILOs of BEM Programme (Category B)	Competent professional	Critical thinker	Effective communicator	Innovative problem solver	Lifelong learner	Ethical leader	Socially responsible global citizen
(i)	X	X	X	X			
(ii)	X	X	X	X	X	X	X
(iii)	X	X	X	X	X	X	
(iv)	X			X	X		X
(v)	X	X	X	X		X	
(vi)	X	X	X	X		X	X

## Curriculum Mapping: BSc (Hons) in Property Management

This curriculum map gives a holistic view of the degree to which each intended learning outcome will be taught and assessed in your programme.

### The following indicators (I, R, A) to show the treatment of the programme outcome in a subject:

I	(Introduced)	That the learning leading to the particular intended outcome is introduced in that subject.
R	(Reinforced)	That the learning leading to the particular intended outcome is reinforced in that subject.
A	(Assessed)	That the performance which demonstrates the particular intended outcome is assessed in that subject

### Level 3 Subjects

		Subject Codes															
	Programme Outcomes List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE315	BRE326	BRE337	BRE341	BRE349	BRE350	BRE362	BRE365	BRE366	BRE397	ELC3421	CLC3231P				
A1	To apply professional and vocational knowledge in property management, including its operational logistics and multi-disciplinary facets	I	IA	I		I	IR	IA	RA	RA	IRA						
A2	To identify and solve problems in property management practices	R	IA	R	I	IRA	IRA		RA	A	IR						
A3	To communicate effectively with social skills as a competent property manager			R	I		IRA				R						
A4	To practise as a professional property manager in compliance with the legal and ethical requirements of the profession	A	I	A	I						R						
A5	To appreciate the multi-disciplinary dimensions of property management practices and the interests of the stakeholders in the industry		I	R			IR	RA	RA	R	R						

	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE315	BRE326	BRE337	BRE341	BRE349	BRE350	BRE362	BRE365	BRE366	BRE397	ELC3421	CLC3231P				
A6	To explore options for the property management practices with creative and critical mindset			I				IA	IA	RA							
	<b>All-rounded Attributes</b>																
B1	To possess skills to identify, analyse and solve problems		I	A	R	RA	A	RA	RA	A	IRA						
B2	To have an understanding of professional, social and ethical responsibilities	R		R					IA		R						
B3	To communicate effectively	R	I	R	I	RA	A	RA	RA	A	R	IRA	IRA				
B4	To reflect on knowledge gap for life time learning			I					I	IRA							
B5	To contribute as team member and to lead effectively		I			RA	A		RA		R						
B6	To identify contemporary issues		I			I		IA	R	A	IR						

**Level 4 Subjects**

		Subject Codes															
<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing		BRE427	BRE4291	BRE431	BRE432	BRE437	BRE463	BRE465	BRE466	BRE470 (E)*							
A1	To apply professional and vocational knowledge in property management, including its operational logistics and multi-disciplinary facets				A		A		RA								
A2	To identify and solve problems in property management practices				A		R	A	A	RA							
A3	To communicate effectively with social skills as a competent property manager		R	I	R		R										
A4	To practise as a professional property manager in compliance with the legal and ethical requirements of the profession		A				R										
A5	To appreciate the multi-disciplinary dimensions of property management practices and the interests of the stakeholders in the industry			RA		I	A	A	R	IA							
A6	To explore options for the property management practices with creative and critical mindset					I	A		RA	RA							

	All-rounded Attributes	BRE427	BRE4291	BRE431	BRE432	BRE437	BRE463	BRE465	BRE466	BRE470 (E)*							
B1	To possess skills to identify, analyse and solve problems		A	RA	A	A	A	A	A	IA							
B2	To have an understanding of professional, social and ethical responsibilities	R	R				A	IR									
B3	To communicate effectively	R	R	R	R	R	A	RA	A	A							
B4	To reflect on knowledge gap for life time learning						R	R	IRA								
B5	To contribute as team member and to lead effectively						A	R		A							
B6	To identify contemporary issues						R	IR	A	R							

\*(E) = Elective

## Programme Curriculum of Major\* in Property Management - Stage 3 of the 4-Year Programme

\*Programme Curriculum shows the 63-credit Discipline-Specific Requirements (DSR) for the Major in Property Management only. Details of the 9-credit General University Requirements (GUR) can be found from their respective websites provided by the University.

Stage 3		Curriculum								Assessment Methods	
		Timetabled Contact Hours per Week			No. of Teaching Weeks	Total Hours	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)			
Subject Code	Subject Title	Lecture	Tutorial/Seminar	Lab. (Pract.)/Project Work/ Guided Study				Subject Weighting	Credit Value	CW/CA	Exam.
CLC3231P	Chinese Communication for Construction and Land Use		3		13	39	CLC	3.0	3	100%	-
ELC3421	English for Construction and Environmental Professionals		3		13	39	ELC	3.0	3	100%	-
BRE315	Property Valuation	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE326	Maintenance Technology & Management	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE337	Property Law	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE341	Property Management I	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE350	Project Management & Procurement	2	1	-	13	39	BRE	3.0	3	40%	60%
BRE362	Urban Economics & Property Investment	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE365	International Study**	-	-	0.8	13	39	BRE	3.0	1	100%	-
BRE366	Analytical Skills & Methods	2 (for 8 weeks)	1 (for 8 weeks)	-	8	24	BRE	3.0	2	100%	-
BRE397	Property Management Accounting	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE432	Property Management II	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE466	Capstone Project <sup>#</sup>	-	-	1.0 (for 10 weeks)	35	184 (PW/GS)	BRE	3.0	6	100%	-

**NOTE:** Students must complete and pass the 9credit GUR subjects and all the subjects listed in Level 3 and Level 4 in Stage 3 prior to their graduation.

<sup>#</sup> BRE466 is a **6-credit** core subject spanning across from Semester 2 of Stage 3 to Semester 1 of Stage 4.

\*\* International Study Tour is to take place in the Summer Semester. Students need to commence preparation, organization and liaison work of their study tour from Semester 1 of Stage 3.

T/S = Tutorial/Seminar

Lab. (Pract.) = Laboratory (Practical)

PW = Project Work

CW = Coursework

GS = Guided Study

CA = Continuous Assessment

## Programme Curriculum of Major\* in Property Management for Stage 4

Stage 4		Curriculum								Assessment Methods	
		Timetabled Contact Hours per Week			No. of Teaching Weeks	Total Hours	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)			
Subject Code	Subject Title	Lecture	Tutorial/Seminar	Lab. (Pract.)/Project Work/Guided Study				Subject Weighting	Credit Value	CW/CA	Exam.
BRE427	Applied Property Investment	2	1	-	13	39	BRE	3.0	3	30%	70%
BRE4291	Real Estate Marketing	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE431	Housing Studies	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE437	Facility Management	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE463	Business Valuation & Accounts	2	1	-	13	39	BRE	3.0	3	50%	50%
BRE465	Asset Management	2	1	-	13	39	BRE	3.0	3	50%	50%
Elective#	subject 1				13	39	BRE	3.0	3		-
Elective#	subject 2				13	39	BRE	3.0	3		
Elective#	subject 3				13	39	BRE	3.0	3		

**NOTE:** Student must complete and pass all subjects listed in Level 4 and two out of the four electives of their choice prior to their graduation.

# All BRE Level 3 and Level 4 subjects of a particular Major or discipline are offered as electives to students of another Major or discipline within the Department, subject to the fulfilment of any pre-requisite or co-requisite requirements and time-table constraints

PMT students can also opt the following subjects offered by the Department of APSS, in addition to or in lieu of BRE electives:

APSS265 Self Understanding and Communication Skills  
 APSS4531 Current Management Practices and Issues in Human Service Organizations  
 APSS4522 Health Policy

T/S = Tutorial/Seminar  
 Lab. (Pract.) = Laboratory (Practical)  
 PW = Project Work  
 CW = Coursework  
 GS = Guided Study  
 CA = Continuous Assessment  
 E = Elective

Students who have either HD or Associate Degree qualifications are deemed to satisfy the University's requirement on LCR subjects.

## **PROGRESSION PATTERN**

### **BSc (Hons) in Property Management**

*Total credits for the curriculum framework for the senior year intake is 72 credits (plus 2 training credits), including 9 credits for General University Requirements, and 60 credits for Discipline-Specific Requirements. Unless otherwise specified, subjects are compulsory and carry 3 credits.*

<b><u>Subject Code</u></b>	<b><u>Subject Title</u></b>
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#### **Stage 3 (Year 1) [September 2020]**

##### **Semester 1**

ELC 3421	English for Construction and Environment
BRE315	Property Valuation
BRE341	Property Management I
BRE350	Project Management and Procurement
BRE365	International Study (1 Credit) **
BRE366	Analytical Skills & Methods (2 credits)
BRE397	Property Management Accounting
GUR	CAR subject 1 *

##### **Semester 2**

CLC3231P	Chinese Communication for Construction and Land Use
BRE326	Maintenance Technology & Management
BRE337	Property Law
BRE362	Urban Economics & Property Investment
BRE365	International Study (1 Credit), cont'd **
BRE432	Property Management II
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)
GUR	CAR subject 2 *

##### **Summer Semester**

BRE299	Work-Integrated Education ( 2 training credits)
BRE365	International Study (1 Credit), cont'd **
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)

## **Stage 4 (Year 2) [September 2021]**

### **Semester 1**

BRE365	International Study (1 Credit), cont'd **
BRE427	Applied Property Investment
BRE4291	Real Estate Marketing
BRE463	Business Valuation & Accounting
BRE465	Asset Management
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)

### **Semester 2**

BRE431	Housing Studies
BRE437	Facility Management
Electives#	Subject 1

### **Notes:**

4. \* Senior year intake students need to take 2 CAR subjects, which must be different from the CAR subjects taken during their study of Higher Diploma or Associate Degree. In the meantime, the students must meet the language requirements (English reading, writing; Chinese reading, Writing), and China-related study through CAR subjects, if not yet during their previous study. The student can take CAR subjects in any semester before graduation.
5. \*\* Planning for study tour or comparative international study shall be commenced from year 1, semester 1. The study tour or field study shall be completed during the Semester 1 of year 2.
6. All BRE Level 3 and Level 4 subjects of a particular Major or discipline are offered as electives to students of another Major or discipline within the Department, subject to the fulfilment of any pre-requisite or co-requisite requirements and time-tabling constraints.
7. \*\*\* The Department reserves the rights to review/revise the subjects offered and time of offer.

## **BSc (Hons) in Surveying**

### *Subject Descriptions*

'Level' codes reflect the intellectual demand on the students. The levels of the subjects are coded according to a common coding system of the Hong Kong Polytechnic University.

Level		Explanation
2	=	Standard comparable to Year 2 of a 4-year degree Major
3	=	Standard comparable to Year 3 of a 4-year degree Major
4	=	Standard comparable to the final year of a 4-year degree Major

The University adopts a university-wide standard for subject level weighting for calculating the award GPA, and to use the weighting of 2 for Level 2 subjects; and a weighting of 3 for Level 3 and 4 subjects.

The Programme Curriculum and Examination Schedule for each academic level are detailed in Programme Curriculum Table from Stage 3 to Stage 4.

Subjects are referred by subject codes. The alphabets refer to the responsible departments whilst the three-digit reference numbers, the first digit (i.e. 2, 3 or 4) indicates the level of the subjects.

The **typical progression patterns of BSc (Hons) in Surveying** illustrate the semesters in which these subjects are recommended to be taken, if the programme of the Major is to be completed in the minimum time.

### **NOTE**

**\*Programme Curriculum displays the Discipline-specific Requirements (DSR) for the Major in Surveying only.**

**Details of the General University Requirements (GUR) can be found from their respective websites provided by the University.**

## **Intended Learning Outcomes of Surveying programme**

To ensure fulfilment of the goal of developing all-round students with professional competence stipulated by the University, it is required that outcome statements encompass the following two categories of learning outcomes:-

### **A. Professional/Academic knowledge and competencies**

Upon successful completion of the programme, the students are expected to attain the following abilities:-

- (i) To comprehend and identify issues and problems concerning land, property and construction at project level.
- (ii) To comprehend and identify issues and problems concerning land, property and construction at corporate level.
- (iii) To comprehend and identify issues and problems concerning land, property and construction at industry level.
- (iv) To comprehend and identify issues and problems concerning land, property and construction at macro social-economic and political level.
- (v) To advise clients through rendering surveying services.
- (vi) To identify, formulate and solve problems related to the surveying profession and real estate industry.
- (vii) To analyse and interpret data of the industry.
- (viii) To formulate and implement strategies, policies and solutions for sustainable development and construction.

### **B. Attributes for All-roundedness**

As all undergraduate programmes are under the BRE Scheme, the attributes for all-roundedness listed are the same under the scheme.

Upon successful completion of the programme, the students are expected to possess the following attributes for all-roundedness:-

- (i) To possess skills to identify, analyse and solve problems.
- (ii) To have an understanding of professional, social and ethical responsibilities.
- (iii) To communicate effectively.
- (iv) To reflect on knowledge gap for life time learning.
- (v) To contribute as team member and to lead effectively.
- (vi) To identify contemporary issues.

**Relationship between the programme intended learning outcomes (PILOs) of the SUR and the Institutional learning outcomes of PolyU**

ILOs of BEM Programme (Category A)	Institutional Learning Outcomes						
	Competent professional	Critical thinker	Effective communicator	Innovative problem solver	Lifelong learner	Ethical leader	Socially responsible global citizen
(i)	X	X		X		X	
(ii)	X	X		X			
(iii)	X	X		X	X	X	
(iv)	X	X		X		X	X
(v)	X	X	X	X			
(vi)	X	X	X	X	X		
(vii)	X	X	X				
(viii)	X	X	X	X	X	X	X
ILOs of BEM Programme (Category B)	Competent professional	Critical thinker	Effective communicator	Innovative problem solver	Lifelong learner	Ethical leader	Socially responsible global citizen
(i)	X	X	X	X			
(ii)	X	X	X	X	X	X	X
(iii)	X	X	X	X	X	X	
(iv)	X			X	X		X
(v)	X	X	X	X		X	
(vi)	X	X	X	X		X	X

## Curriculum Mapping: BSc (Hons) in Surveying

This curriculum map gives a holistic view of the degree to which each intended learning outcome will be taught and assessed in your programme.

**The following indicators (I, R, A) to show the treatment of the programme outcome in a subject:**

- I (Introduced) That the learning leading to the particular intended outcome is introduced in that subject.
- R (Reinforced) That the learning leading to the particular intended outcome is reinforced in that subject.
- A (Assessed) That the performance which demonstrates the particular intended outcome is assessed in that subject

### Level 2 Subjects

		Subject Codes													
	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE204 (DSE)													
A1	To comprehend and identify issues and problems concerning land, property and construction at project level	IA													
A2	To comprehend and identify issues and problems concerning land, property and construction at corporate level														
A3	To comprehend and identify issues and problems concerning land, property and construction at industry level														
A4	To comprehend and identify issues and problems concerning land, property and construction at macro socio-economic and political level														
A5	To advise clients through rendering surveying services	I													
A6	To identify, formulate and solve problems related to the surveying profession and real estate industry	IA													
A7	To analyse and interpret data of the industry														

	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE204 (DSE)														
A8	To formulate and implement strategies, policies and solutions for sustainable development and construction															
	<b>All-rounded Attributes</b>															
B1	To possess skills to identify, analyse and solve problems	IA														
B2	To have an understanding of professional, social and ethical responsibilities															
B3	To communicate effectively	IA														
B4	To reflect on knowledge gap for life time learning															
B5	To contribute as team member and to lead effectively	I														
B6	To identify contemporary issues															

### Level 3 Subjects

		Subject Codes																		
Programme Outcomes List programme outcomes in this column in the same order as in the outcomes section for easy referencing		BRE315 (DSE)	BRE326 (DSE)	BRE336	BRE337 (DSE)	BRE341 (DSE)	BRE345 (DSE)	BRE350	BRE361 (DSE)	BRE362	BRE363 (DSE)	BRE364 (DSE)	BRE365	BRE366	BRE397 (DSE)	BRE369	CLC3231P	ELC3421		
A1	To comprehend and identify issues and problems concerning land, property and construction at project level	IRA	IA	IRA	I		IA	RA	RA	RA	RA	RA	RA	RA	RA	RA				
A2	To comprehend and identify issues and problems concerning land, property and construction at corporate level			I	I	I			RA	IA	RA		RA	RA	R	RA				
A3	To comprehend and identify issues and problems concerning land, property and construction at industry level		IA	IRA	A				RA	IA	RA		IA	RA	R	IR				
A4	To comprehend and identify issues and problems concerning land, property and construction at macro socio-economic and political level		I	I	R	I			I	RA	R		IA	RA		IR				
A5	To advise clients through rendering surveying services	A	I	I	I		I	RA	R		RA	IA			R	IR				
A6	To identify, formulate and solve problems related to the surveying profession and real estate industry	A	IA	IRA	R				RA		RA		RA	A	R	IR				
A7	To analyse and interpret data of the industry	A					IR			IA	RA		IA	R		IR				

	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE315 (DSE)	BRE326 (DSE)	BRE336	BRE337 (DSE)	BRE341 (DSE)	BRE350	BRE349	BRE361 (DSE)	BRE362	BRE363 (DSE)	BRE364 (DSE)	BRE365	BRE366	BRE397 (DSE)	BRE369	CLC3231P	ELC3421		
A8	To formulate and implement strategies, policies and solutions for sustainable development and construction		I	RA	I				I	IA	R		RA			I				
	<b>All-rounded Attributes</b>																			
B1	To possess skills to identify, analyse and solve problems		I	R	A	R	A	RA	IR	RA	RA	RA	RA	A	IRA	RA				
B2	To have an understanding of professional, social and ethical responsibilities	R		RA	R				I		RA		IA		R	RA				
B3	To communicate effectively	R	I	RA	R	I	A	RA		RA	RA	RA	RA	A	R	RA	IRA	IRA		
B4	To reflect on knowledge gap for life time learning			RI	I						I	R	I	IRA		I				
B5	To contribute as team member and to lead effectively		I				A	RA			R		RA		R	I				
B6	To identify contemporary issues		I	RA				I	IRA	IA	RA	R	R	A	IR	I				

**Level 4 Subjects**

		Subject Codes																				
<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing		BRE415 (DSE)	BRE418 (DSE)	BRE427 (DSE)	BRE4291 (DSE)	BRE435 (DSE)	BRE436 (DSE)	BRE437 (DSE)	BRE439 (DSE)	BRE440 (DSE)	BRE442 (DSE)	BRE450 (DSE)	BRE453 (DSE)	BRE461 (DSE)	BRE462 (E)*	BRE463 (DSE)	BRE464 (DSE)	BRE465 (DSE)	BRE466	BRE469	BRE470 (DSE)	
A1	To comprehend and identify issues and problems concerning land, property and construction at project level	A		A		IRA	A		A	RA	RA	R	RA	RA	R	A	RA		RA	RA	RA	
A2	To comprehend and identify issues and problems concerning land, property and construction at corporate level					I		A	A	RA	IA			R		A	R	IA	RA	RA		
A3	To comprehend and identify issues and problems concerning land, property and construction at industry level	A		A		RA	A		R		RA	R		R	R	A	RA	IA	RA	RA		
A4	To comprehend and identify issues and problems concerning land, property and construction at macro socio-economic and political level		A		A	R		A			IA	R		R		R	RA		RA	RA		
A5	To advise clients through rendering surveying services			A	A	R			R		RA		RA			A	RA	A	A	RA	IR	
A6	To identify, formulate and solve problems related to the surveying profession and real estate industry	R		A	A	R	A				I					A	RA	A	A	RA	A	
A7	To analyse and interpret data of the industry	A	A			RA					RA	RA		RA		A	R	A		RA		

	<b>Programme Outcomes</b> List programme outcomes in this column in the same order as in the outcomes section for easy referencing	BRE415 (DSE)	BRE418 (DSE)	BRE427 (DSE)	BRE4291 (DSE)	BRE435 (DSE)	BRE436 (DSE)	BRE437 (DSE)	BRE439 (DSE)	BRE440 (DSE)	BRE442 (DSE)	BRE450 (DSE)	BRE453 (DSE)	BRE461 (DSE)	BRE462 (E)*	BRE463 (DSE)	BRE464 (DSE)	BRE465 (DSE)	BRE466	BRE469	BRE470 (DSE)	
A8	To formulate and implement strategies, policies and solutions for sustainable development and construction					RA				I		RA	RA	RA	RA	R	RA	I		R		
	<b>All-rounded Attributes</b>																					
B1	To possess skills to identify, analyse and solve problems	R			A	R	R	A	A	RA	RA	RA	RA	RA	RA	A	RA	A	A	RA	IA	
B2	To have an understanding of professional, social and ethical responsibilities	I		R	R	RA	R		R		IA	R	R	RA		A	RA	IR		RA		
B3	To communicate effectively	A	A	R	R	RA	R	R	R	RA	RA	RA			RA	A	RA	RA	A	RA	A	
B4	To reflect on knowledge gap for life time learning	I				R					I				R	R	R	R	IRA	R		
B5	To contribute as team member and to lead effectively	A				RA					I	R		R	R	A	RA	R		R	A	
B6	To identify contemporary issues	R				RA						R	R	IR	RA	R	RA	IR	A	R	R	

(DSE) = Discipline - Specific Elective Subject

\*(E) = Elective

## Curriculum Structure and Components

<b>University Core Curriculum (GUR)</b> [9 credits]	<b>CAR subjects</b> chosen from the following 4 clusters: <ul style="list-style-type: none"> <li>• Human nature, relations and development</li> <li>• Community, organization and globalization</li> <li>• History, culture and world views</li> <li>• Science, technology and environment</li> </ul> [6 credits, min 3 credits of which should be in subjects designated as “China-related”; plus “R” and “W” requirements in English and Chinese]	<b>Service-Learning</b> [3 credits]
	Students are also expected to meet the equivalent standard of the Undergraduate Degree Language and Communication Requirements (LCR). (Note 1)	

<b>Major Study (DSR)</b> <b>BSc (Hons) in Surveying (SUV)</b> [63 credits]	<b>Discipline-Specific Subjects for Surveying</b> <b>[24 credits]</b> [Subjects common to all surveying students] [Including 2 embedded language requirements in English (3 credits) and in Chinese (3 credits)]				
	<b>Discipline-Specific Electives for Surveying</b> <b>[33 credits]</b> Surveying students are required to opt ONE Discipline from the 5 surveying disciplines: Building Surveying (BS), General Practice Surveying (GP), Planning & Development (PD), Property and Facility Management (PFM) and Quantity Surveying (QS).				
	<i>BS Discipline-Specific Elective Subjects</i> [33 credits]	<i>GP Discipline-Specific Elective Subjects</i> [33 credits]	<i>PD Discipline-Specific Elective Subjects</i> [33 credits]	<i>PFM Discipline-Specific Elective Subjects</i> [33 credits]	<i>QS Discipline-Specific Elective Subjects</i> [33 credits]
	<b>Capstone Project</b> <b>[6 credits]</b>				
<b>Work-Integrated Education (WIE)</b> [2 training credits]					

<b>Total credit requirement for graduation: 72 credits (plus 2 training credits)</b>
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### **NOTE:**

1. Students not meeting the equivalent standard of the Undergraduate Degree LCR will be required to take additional LCR subjects. These students will have to take in an assessment test to ascertain the LCR subjects required.

## Programme Curriculum of Major\* in Surveying - Stage 3 of the 4-Year Programme

\*Programme Curriculum shows the 63-credit Discipline-Specific Requirements (DSR) for the Major in Surveying only. Details of the 9-credit General University Requirements (GUR) can be found from their respective websites provided by the University.

### Discipline-Specific Requirements (DSR) for SUV

Subject Code	Subject Title	Teaching Dept.	Subject Weighting for Final Assessment Grade (FAG)		Assessment Methods	
			Subject Weighting	Credit Value	CW/CA	Exam
<b>Stage 2 DSR Subjects of the 4-year full-time programme with embedded language requirements in English and in Chinese</b>						
ELC3421	English for Construction and Environmental Professionals	ELC	3.0	3	100%	-
CLC3231P	Chinese Communication for Construction and Land Use	CLC	3.0	3	100%	-
<b>Stage 3 DSR Subjects of the 4-year full-time programme</b>						
BRE326	Maintenance Technology & Management	BRE	3.0	3	30%	70%
BRE336	Development Control Law	BRE	3.0	3	50%	50%
BRE350	Project Management & Procurement	BRE	3.0	3	40%	60%
BRE365	International Study <sup>2</sup>	BRE	3.0	1	100%	-
BRE366	Analytical Skills & Methods	BRE	3.0	2	100%	-
BRE369	Integrated Professional Workshop II	BRE	3.0	3	100%	-
BRE466	Capstone Project <sup>3</sup>	BRE	3.0	6	100%	
<b>BS/QS Discipline-Specific Elective subjects<sup>1</sup></b>						
BRE204	Structure I	BRE	2.0	3	30%	70%
BRE345	Measurement , Documentation & Estimating	BRE	3.0	3	60	40%
BRE361	Construction Technology & Materials II	BRE	3.0	3	40%	60%
BRE363	Construction Economics	BRE	3.0	3	40%	60%
BRE364	Construction Contract Law & Administration	BRE	3.0	3	40%	60%
<b>GP/PD/PFM Discipline-Specific Elective subjects<sup>1</sup></b>						
BRE315	Property Valuation	BRE	3.0	3	50%	50%
BRE337	Property Law	BRE	3.0	3	30%	70%
BRE341	Property Management I	BRE	3.0	3	30%	70%
BRE362	Urban Economics & Property Investment	BRE	3.0	3	50%	50%
BRE397	Property Management Accounting	BRE	3.0	3	50 %	50 %
	Work-Integrated Education (2 training credits)				Pass/ Fail	

Stage 4 DSR Subjects of the 4-year full-time programme						
BRE469	Integrated Professional Workshop III	BRE	3.0	3	100%	-
BS and QS Discipline-Specific Elective Subjects <sup>1</sup>						
BRE415	Dispute Resolution	BRE	3.0	3	100%	-
BRE453	Building Services II	BRE	3.0	3	30%	70%
BRE461	Environmental Impact & Assessment	BRE	3.0	3	60%	40%
BS Discipline-Specific Elective Subjects <sup>1</sup>						
BRE435	Design, Adaptation & Conversion	BRE	3.0	3	50%	50%
BRE437	Facility Management	BRE	3.0	3	50%	50%
BRE470	Information Technology and Building Information Modelling for Construction	BRE	3.0	3	100%	-
QS Discipline-Specific Elective Subjects <sup>1</sup>						
BRE439	Engineering Contract Procedure	BRE	3.0	3	50%	50%
BRE440	Cost & Value Management	BRE	3.0	3	50%	50%
BRE442	Forecasting & competition in the Built Environment	BRE	3.0	3	40%	60%
GP, PD and PFM Discipline-Specific Elective Subjects <sup>1</sup>						
BRE418	Real Estate Development	BRE	3.0	3	50%	50%
BRE427	Applied Property Investment	BRE	3.0	3	30%	70%
BRE4291	Real Estate Marketing	BRE	3.0	3	50%	50%
BRE463	Business Valuation and Accounts	BRE	3.0	3	50%	50%
BRE465	Asset Management	BRE	3.0	3	50%	50%
GP and PFM Discipline-Specific Elective Subjects <sup>1</sup>						
BRE436	Applied Property Valuation	BRE	3.0	3	50%	50%
PD Discipline-Specific Elective Subjects <sup>1</sup>						
BRE464	Urban Planning	BRE	3.0	3	100%	-

**NOTE:**

Students must complete and pass all the Discipline-Specific Subjects and all Discipline-Specific Elective Subjects of their chosen surveying discipline for graduation.

1. Surveying students are required to opt **ONE** Discipline from the 5 surveying disciplines: BS, GP, PD, PFM and QS.
2. International study tour is to take place in the Summer Semester of stage 3. Students need to commence their study tour preparation, organization and liaison work from Semester 1 of stage 3.
3. BRE466 Capstone Project is a 6-credit core subject spanning across three semesters: Semester 2 and Summer Semester of year 3 and Semester 1 of year 4.

CW = Coursework    CA = Continuous Assessment    E = Elective

## General University Requirements (GUR)

Area and Credit Requirement	Curriculum Requirement
Cluster-Area Requirements (CAR) [6 credits; min. 3 credits should be in subject designated as “China-related”]	<ul style="list-style-type: none"> <li>• Students should not take more than 3 credits (1 subject) from the same cluster area.</li> <li>• Students need to fulfill the English and Chinese reading and writing requirements and 3 credits of China Studies requirement (CSR)</li> <li>• Students may apply for a waiver if they have fulfilled the English and Chinese reading and writing requirements and/or CSR requirement in their previous studies.</li> </ul>
Service Learning [3 credits]	<ul style="list-style-type: none"> <li>• Prior to its full implementation, students may take a 3-credit free elective in lieu of the Service Learning requirement</li> </ul>
Language and Communication Requirements (LCR)	<ul style="list-style-type: none"> <li>• Having met the equivalent standard of the Undergraduate Degree Language and Communication Requirement (LCR) (Note 1)</li> </ul>

**Note 1:** Students not meeting the equivalent standard of the Undergraduate Degree LCR will be required to take additional LCR subjects. These students will have to take in an assessment test to ascertain the LCR subjects required.

## PROGRESSION PATTERN

### **BSc (Hons) in Surveying**

*Total credits for the curriculum framework for the senior year intake is 72 credits (plus 2 training credits), including 9 credits for General University Requirements, and 63 credits for Discipline-Specific Requirements. Unless otherwise specified, subjects are compulsory and carry 3 credits.*

<u>Subject Code</u>	<u>Subject Title</u>
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#### **Stage 3 (Year 1) [September 2020]**

##### **Semester 1**

BRE336	Development Control Law
BRE350	Project Management & Procurement
BRE365	International Study (1 Credit), cont'd ***
BRE366	Analytical Skills & Methods (2 credits)
ELC3421	English for Construction and Environment
GUR	CAR Subject 1*

*\*\*BS/QS Discipline-specific Elective Subjects*

BRE204	Structure I
BRE361	Construction Technology & Materials II
BRE363	Construction Economics

*\*\*GP/PD/PFM Discipline-specific Elective Subjects*

BRE315	Property Valuation
BRE341	Property Management I
BRE397	Property Management Accounting

##### **Semester 2**

BRE326	Maintenance Technology & Management
BRE365	International Study (1 Credit), cont'd ***
BRE369	Integrated Professional Workshop II
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)
CLC3231P	Chinese Communication for Construction and Land Use
GUR	CAR Subject 2 *

*\*\*BS/QS Discipline-specific Elective Subjects*

BRE345	Measurement , Documentation & Estimating
BRE364	Construction Contract Law & Administration

*\*\*GP/PD/PFM Discipline-specific Elective Subjects*

BRE337	Property Law
BRE362	Urban Economics & Property Investment

**Summer Semester**

BRE299	Work-Integrated Education ( 2 training credits)
BRE365	International Study (1 Credit), cont'd ***
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)

**Stage 4 (Year 2) [September 2021]**

**Semester 1**

BRE365	International Study (1 Credit), cont'd ***
BRE466	Capstone Project (6 credits in 3 semesters from Year 1:S2 to Year 2:S1)

*\*\*BS Discipline-Specific Elective Subjects*

BRE415	Dispute Resolution
BRE453	Building Services II
BRE461	Environmental Impact & Assessment
BRE470	Information Technology & Building Information Modelling for Construction

*\*\*QS Discipline-Specific Elective Subjects*

BRE415	Dispute Resolution
BRE453	Building Services II
BRE461	Environmental Impact & Assessment

*\*\*GP, PD and PFM Discipline-Specific Elective Subjects*

BRE427	Applied Property Investment
BRE4291	Real Estate Marketing
BRE463	Business Valuation and Accounts
BRE465	Asset Management

## Semester 2

BRE469	Integrated Professional Workshop III
GUR	Service Learning
<del>GUR</del>	<del>CAR Subject 2</del> **

### *\*\*BS Discipline-Specific Elective Subjects*

BRE435	Design, Adaptation & Conversion
BRE437	Facility Management

### *\*\*QS Discipline-Specific Elective Subjects*

BRE439	Engineering Contract Procedure
BRE440	Cost & Value Management
BRE442	Forecasting & Competition in the Built Environment

### *\*\*GP and PFM Discipline-Specific Elective Subjects*

BRE418	Real Estate Development
BRE436	Applied Property Valuation

### *\*\*PD Discipline-Specific Elective Subjects*

BRE418	Real Estate Development
BRE464	Urban Planning

#### Notes:

1. \*\* Surveying students are required to opt **ONE** Discipline from the 5 surveying disciplines offered by the Department.
2. \*\*\* Planning for study tour or comparative international study shall be commenced from year 1, semester 1. The study tour or field study shall be completed during the Semester 1 of year 2.
3. The Department reserves the rights to review/revise the subjects offered and time of offer.

## 5. Assessment

Assessment plays an important role in enhancing students' learning. Assessment is the process of finding out and putting a value on a student's achievements in studying a programme. It is a means to measure the learning outcomes/goals of a subject/programme. With the movement from a norm-referenced to a criterion-referenced model of measurement in this University, students are assessed and measured of their performance against an explicit set of standards. Therefore, the prime objective of assessment is to enable students to demonstrate their abilities in attaining the intended learning outcomes and fulfilling the intended learning outcomes and requirements of a subject/programme. Assessment is also served as feedback both to students of their performance and learning in progress and attainment of the subject/programme and to the teaching faculty of their teaching.

Different assessment methods including formative and summative assessments are adopted as deemed appropriate to the subjects depending on the natures of the subject disciplines and the alignment of the intend learning outcomes of the courses. The assessment methods are contained therein in the subject specifications, which are distributed to all students in the beginning of the academic year. It is also reinforced by the subject lecturers by informing the students at the learning commencement on the assessment modes, standards and criteria.

With the move to criterion-referenced assessment, rubrics are developed to assess student performance with a scoring scale along a task-specific continuousness of criteria for some subjects. Students' work is evaluated against scoring standards/criteria, and the assessment can be done entirely through coursework such as integrated projects, design projects, professional studies and dissertation. Innovative, originality, research techniques, group effort, individual contribution or work, communication and presentation skills (oral and written), independence in working and co-operation with teams can be thus assessed according to the specified criteria and intended learning outcomes of the subjects.

In most other subjects, the student performance in each subject is assessed through a combination of coursework and examination. Weightings are allocated to coursework and examination of a subject, e.g. 30% and 70%, 40% and 60% or 50% and 50% respectively. Coursework includes assignments, case studies, seminar/tutorial presentation, role-playing, fieldwork, tests and other forms of learning activities. Grades will be assigned to reflect both individual contribution and group effort in the case it is not an individual piece of work. Examination is an end of unit/subject assessment. Grades are usually awarded to the written examinations. Marking schemes are provided to ensure assessment and grading on student performance are based on criteria and standards. The quality of examination papers and marking schemes is scrutinized by the external examiners and departmental academic advisor.

Other than projects and dissertation, where appropriate, some subjects can employ 100% continuous assessment. Usually students are assessed in their performance attainment of technical skills over an extended period of time, for example, measurement, estimating & documentation, and engineering surveying.

In the case of group projects, both aggregating grades and assigning grades are given to group effort and individual contribution in a group. This is to ensure that there will be no 'non performer'. Moreover, peer interactive learning in project proposal/solutions, and different components of the project, presentations, reports and communication are included in the grading for the group effort.

### **Assessment Method**

Students' performance in a subject is assessed by either of the following methods:-

- (a) **Coursework only**: To pass a subject by this method, a student must attain a minimum Grade 'D' in coursework (tests, assignments, projects, laboratory work, field exercises, presentations and other forms of classroom participation).
- (b) **Examination and Coursework** (the weighting of each component is stated in the Subject Portfolio): To pass a subject by this method a student must attain a minimum Grade 'D' in coursework and a minimum Grade 'D' in the examination.
- (c) **Continuous Assessment**: Both **Project** and **Capstone Project** are of this type of assessment where students are assessed through a period of time with stages of work and progress together with the final products of works. The 'Guidance Notes for the Capstone projects' detailed the assessment and process.

Assessment methods and parameters are determined by the Subject Leader who will inform the students of the details at the beginning of each semester.

**Grading** (in accordance with C1-8 General Assessment Regulations of AR Handbook on Academic Regulations and Procedures)

At the end of each semester, students will be informed of the grade achieved for each subject normally.

Assessment grades shall be awarded on a criterion-reference basis. A student's overall performance in a subject shall be graded as follows:-

<i>Subject Grade</i>	<i>Short Description</i>	<i>Elaboration on subject grading description</i>
A+ A A-	Excellent	Demonstrates excellent achievement of intended subject learning outcomes by being able to skillfully use concepts and solve complex problems. Shows evidence of innovative and critical thinking in unfamiliar situations, and is able to express the synthesis or application of ideas in a logical and comprehensive manner.
B+ B B-	Good	Demonstrates good achievement of intended subject learning outcomes by being able to use appropriate concepts, and solve problems. Shows the ability to analyse issues critically and make well-grounded judgements in familiar or standard situations, and is able to express the synthesis or application of ideas in a logical and comprehensive manner.
C+ C C-	Satisfactory	Demonstrates satisfactory achievement of intended subject learning outcomes by being able to solve relatively simple problems. Shows some capacity for analysis and making judgements in a variety of familiar and standard situations, and is able to express the synthesis or application of ideas in a manner that is generally logical but fragmented.
D+ D	Pass	Demonstrates marginal achievement of intended subject learning outcomes by being able to solve relatively simple problems. Can make basic comparisons, connections and judgements and express the ideas learnt in the subject, though there are frequent breakdowns in logic and clarity.
F	Fail	Demonstrates inadequate achievement of intended subject learning outcomes through a lack of knowledge and/or understanding of the subject matter. Evidence of analysis is often irrelevant or incomplete.

**Note:**

- Marking rubrics aligned with these Grade Descriptors need not include all aspects of the grade descriptor.
- Marking rubrics aligned with these Grade Descriptors may include other aspects aligned with particular subject matter or field of study requirements but are not included in the grade descriptor.

'F' is a subject failure grade, whilst all others (from 'D' to 'A+') are subject passing grades. No credit will be earned if a subject is failed.

The grade points assigned to subject grades attained by students are as follows:

Grade	New Grade Point	Short Description
A+	4.3	Excellent
A	4.0	
A-	3.7	
B+	3.3	Good
B	3.0	
B-	2.7	
C+	2.3	Satisfactory
C	2.0	
C-	1.7	
D+	1.3	Pass
D	1.0	
F	0.0	Failure

At the end of each semester/term, a Grade Point Average (GPA) will be computed based on the grade point of the subject overall grade as follows:-

$$\text{GPA} = \frac{\sum \text{Subject Grade Point} \times \text{Subject Credit Value}}{\sum \text{Subject Credit Value}}$$

where n = number of all subjects (inclusive of failed subjects) taken by the student up to and including the latest semester/term, but for subjects which have been retaken, only the grade obtained in the final attempt will be included in the GPA calculation

In addition, the following subjects will be excluded from the GPA calculation:-

- (i) Exempted subjects
- (ii) Ungraded subjects
- (iii) Incomplete subjects
- (iv) Subjects for which credit transfer has been approved, but without any grade assigned<sup>1</sup>
- (v) Subjects from which a student has been allowed to withdraw (i.e. those with the code 'W')

Subject which has been given an "S" code, i.e. absent from all assessment components, will be included in the GPA calculation and will be counted as "zero" grade point. GPA is thus the unweighted cumulative average calculated for a student, for all relevant subjects taken from the start of the programme to a particular reference point of time. GPA is an indicator of overall performance, and ranges from 0.00 to 4.30 from 2020/21.

<sup>1</sup> Subjects taken in PolyU or elsewhere and with grades assigned, and for which credit transfer has been approved, will be included in the GPA calculation.

The Weighted GPA will be used as a guide to help determine award classifications, and the level weighting to different subjects of all disciplines and programmes will need to be specified in the Programme Requirement Document.

Weighted GPA will be computed as follows:-

$$\text{Weighted GPA} = \frac{\sum \text{Subject Grade Point} \times \text{Subject Credit Value} \times W_1}{\sum_n \text{Subject Credit Value} \times W_1}$$

Where  $W_1$  = weighting to be assigned according to the level of the subject.

$n$  = number of all subjects (inclusive of failed subjects) taken by the student up to and including the latest semester/term, but for subjects which have been retaken, only the grade point obtained in the final attempt will be included in the GPA calculation.

For calculating the Weighted GPA (and award GPA) to determine the Honours classification of students who satisfy the graduation requirements of Bachelor's degree awards, a University-wide standard weighting<sup>1</sup> will be applied to all subjects of the same level, with a weighting of 2 for Level 1 and 2 subjects, a weighting of 3 for Level 3 and 4 subjects. Same as for GPA, Weighted GPA is ranges from 0.00 to 4.30 from 2020/21.

Any subjects passed after the graduation requirement has been met will not be taken into account of in the grade point calculation for award classification.

### **Progression/Academic Probation/De-registration**

The Board of Examiners shall, at the end of each semester (except for Summer Term unless there are students who are eligible to graduate after completion of Summer Term study is mandatory for the programme), determine whether each student is

- (i) eligible for progression towards an award; or
- (ii) eligible for an award; or
- (iii) required to be de-registered from the programme.

When a student has a Grade Point Average (GPA) lower than 1.70, he will be put on academic probation in the following semester. If a student is able to pull his GPA up to 1.70 or above at the end of the semester, the status of "academic probation" will be lifted. The status of "academic probation" will be reflected in the assessment result notification but not in transcript of studies.

<sup>1</sup> Requests for deviation from this University-wide standard require specific approval by the APRC.

A student will have 'progressing' status unless he falls within any one of the following categories which shall be regarded as grounds for de-registration from the programme:-

- (i) the student has reached the final year of the normal period of registration for that programme, as specified in the Programme Requirement Document, unless approval has been given for extension; or
- (ii) the student has reached the maximum number of retakes allowed for a failed compulsory subject; or
- (iii) the student's GPA is lower than 1.70 for two consecutive semesters and his Semester GPA in the second semester is also lower than 1.70; or
- (iv) the student's GPA is lower than 1.70 for three consecutive semesters.

When a student falls within any of the categories as stipulated above, except for category (i) with approval for extension, the Board of Examiners shall de-register the student from the programme without exception.

A student may be de-registered from the programme enrolled before the time frame specified above, if his academic performance is poor to the extent that the Board of Examiners deems that his chance of attaining a GPA of 1.70 at the end of the programme is slim or impossible.

The progression of students to the following academic year will not be affected by the GPA obtained in the Summer Term, unless Summer Term study is mandatory for all students of the programme and constitutes a requirement for graduation, and is so specified in the Programme Requirement Document.

If the student is not satisfied with the de-registration decision of the Board of Examiners, he can lodge an appeal. All such appeal cases will be referred directly to the Academic Appeals Committee (AAC) for final decision. Views of Faculties/Schools/Departments will be sought and made available to AAC for reference.

### ***Retaking of Subjects***

Students may only retake a subject which they have failed (i.e. Grade F or U). Retaking of subjects is with the condition that the maximum study load of 21 credits per semester is not exceeded.

The number of retakes of a subject should be restricted to two, i.e. a maximum of three attempts for each subject is allowed<sup>1</sup>.

Students need to submit a request to the Faculty/School Board for the second retake of a failed subject.

<sup>1</sup> The retake count of students admitted in or before 2019/20 will be reset to "0" in 2020/21 when the revised regulations come into effect.

Students who have failed a compulsory subject after two retakes and have been de-registered can submit an appeal to the AAC for a third chance of retaking the subject.

In case AAC does not approve further retakes of a failed compulsory subject or the taking of an equivalent subject with special approval from the Faculty, the student concerned would be re-registered and the decision of the AAC would be final within the University.

### **Appeals**

Appeals against the decision of the Scheme Board of Examiners must be made within 7 working days after the public announcement of the examination results. A student should make the appeal to the Head of the BRE Department. The Department will inform the student of the appeal result and, if the appeal is successful, the Department will inform the Faculty. (Details are referred to C7 Student Appeals of AS Handbook on Academic Regulations and Procedures)

## 6. Progression and Award

### Progression

A student will have 'progressing' status unless he falls within the following categories, either of which may be regarded as grounds for deregistration from the programme:-

- (i) the student has reached the final year of the normal period of registration for that programme, as specified in the Programme Requirement Document, unless approval has been given for extension; or
- (ii) the student has reached the maximum number of retakes allowed for a failed compulsory subject; or
- (iii) the student's GPA is lower than 1.70 for two consecutive semesters and his Semester GPA in the second semester is also lower than 1.70; or
- (iv) the student's GPA is lower than 1.70 for three consecutive semesters.

### Graduation Requirements

A student will be eligible for award if all the following conditions are satisfied:-

- (i) accumulation of the requisite number of credits for the particular award, as defined in the definitive programme document; and
- (ii) satisfying the residential requirement for at least one third of the credits required for the award to be completed under the current enrolment at PolyU; and
- (iii) satisfying all requirements as defined in the definitive programme document and as specified by the University; and
- (iv) having a Grade Point Average (GPA) of 1.70 or above at the end of the programme.

A student is required to graduate as soon as all the conditions for award are satisfied.

### **Guidelines for Award Classification**

The following are guidelines for the Boards of Examiners when determining award classifications. The BoE will exercise its judgement as to the award for each student and may use other relevant information.

<b>Honours Degree</b>	<b>Guidelines</b>
1 <sup>st</sup>	The student's performance/attainment is outstanding, and identifies him as exceptionally able in the field covered by the programme in question.
2:i	The student has reached a standard of performance/attainment, which is more than satisfactory but less than outstanding.
2:ii	The student has reached a standard of performance/attainment judged to be satisfactory, and clearly higher than the "essential minimum" required for graduation.
3 <sup>rd</sup>	The student has attained the "essential minimum" required for graduation at a standard ranging from just adequate to just satisfactory.

A Pass-without-Honours degree award will be recommended only under exceptional circumstances, when the student has demonstrated a level of final attainment which is below the 'essential minimum' required for graduation with Honours from the programme in question, but when he has nonetheless covered the prescribed work of the programme in an adequate fashion, while failing to show sufficient evidence of the intellectual calibre expected of Honours degree graduates.

# **Subject Portfolio**

**Level 3 Subjects:**

BRE302	Structure II
BRE315	Property Valuation
BRE326	Maintenance Technology & Management
BRE336	Development Control Law
BRE337	Property Law
BRE341	Property Management I
BRE345	Measurement, Documentation & Estimating
BRE349	Building Services I
BRE350	Project Management and Procurement
BRE361	Construction Technology & Materials II
BRE362	Urban Economics and Property Investment
BRE363	Construction Economics
BRE364	Construction Contract Law and Administration
BRE365	International Study
BRE366	Analytical Skills and Methods
BRE369	Integrated Professional Workshop II
BRE397	Property Management Accounting

**Level 4 Subjects:**

BRE415	Dispute Resolution
BRE418	Real Estate Development
BRE426	Geotechnical and Foundation Engineering
BRE427	Applied Property Investment
BRE4281	Construction Engineering Management
BRE4291	Real Estate Marketing
BRE431	Housing Studies
BRE432	Property Management II
BRE435	Design, Adaptation and Conversion
BRE436	Applied Property Valuation
BRE437	Facility Management
BRE439	Engineering Contract Procedure
BRE4393	Temporary Work Design
BRE440	Cost and Value Management
BRE442	Forecasting & Competition in the Built Environment
BRE453	Building Services II
BRE461	Environmental Impact and Assessment
BRE462	Advanced Construction Technology
BRE463	Business Valuation and Accounts
BRE464	Urban Planning (Workshops)
BRE465	Asset Management
BRE466	Capstone Project
BRE469	Integrated Professional Workshop III
BRE470	Information Technology and Building Information Modelling for Construction

**Service Teaching:**

AMA1110	Basic Mathematics I – Calculus and Probability & Statistics
AMA290	Engineering Mathematics
APSS265	Self-Understanding and Communication Skills
APSS4522	Health Policy
APSS4531	Current Management Issues Practices and Issues in Human Service Organizations
CLC3231P	Chinese Communication for Construction and Land Use
CE1000	Construction for Better Living
CSE20290	Introduction to Geotechnology
ELC3421	English for Construction and Environmental Professionals
IC358	Industrial Safety I
LSGI2961	Engineering Surveying