

Setting Programme Intended Learning Outcomes (PILOs)

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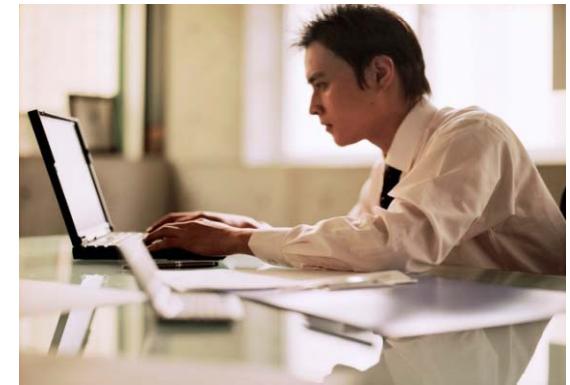
University Education



New students

Formal Curriculum

Co-Curriculum



**Ideal Graduates/
Professionals**

Academic success

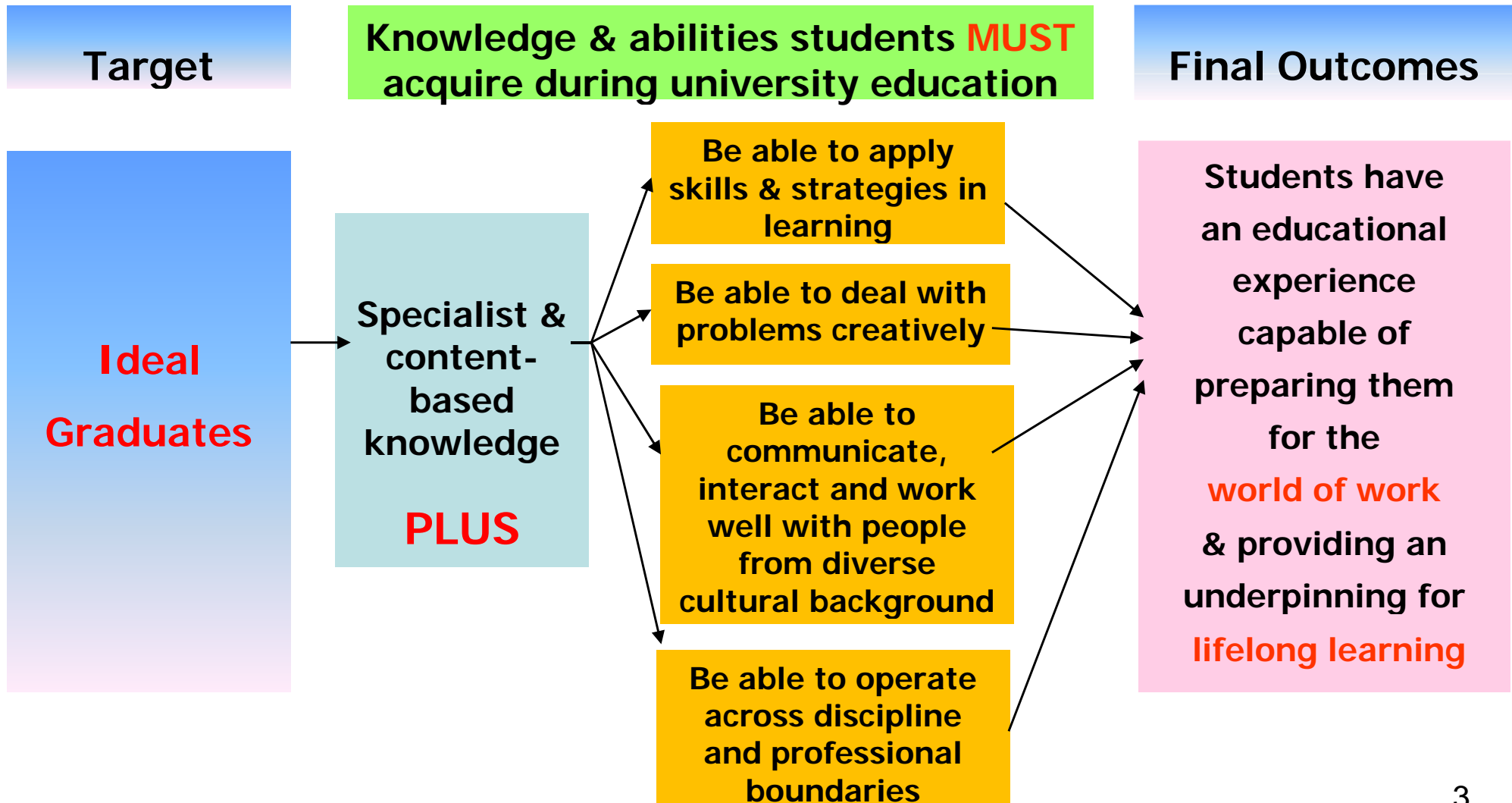
Personal success

Career success

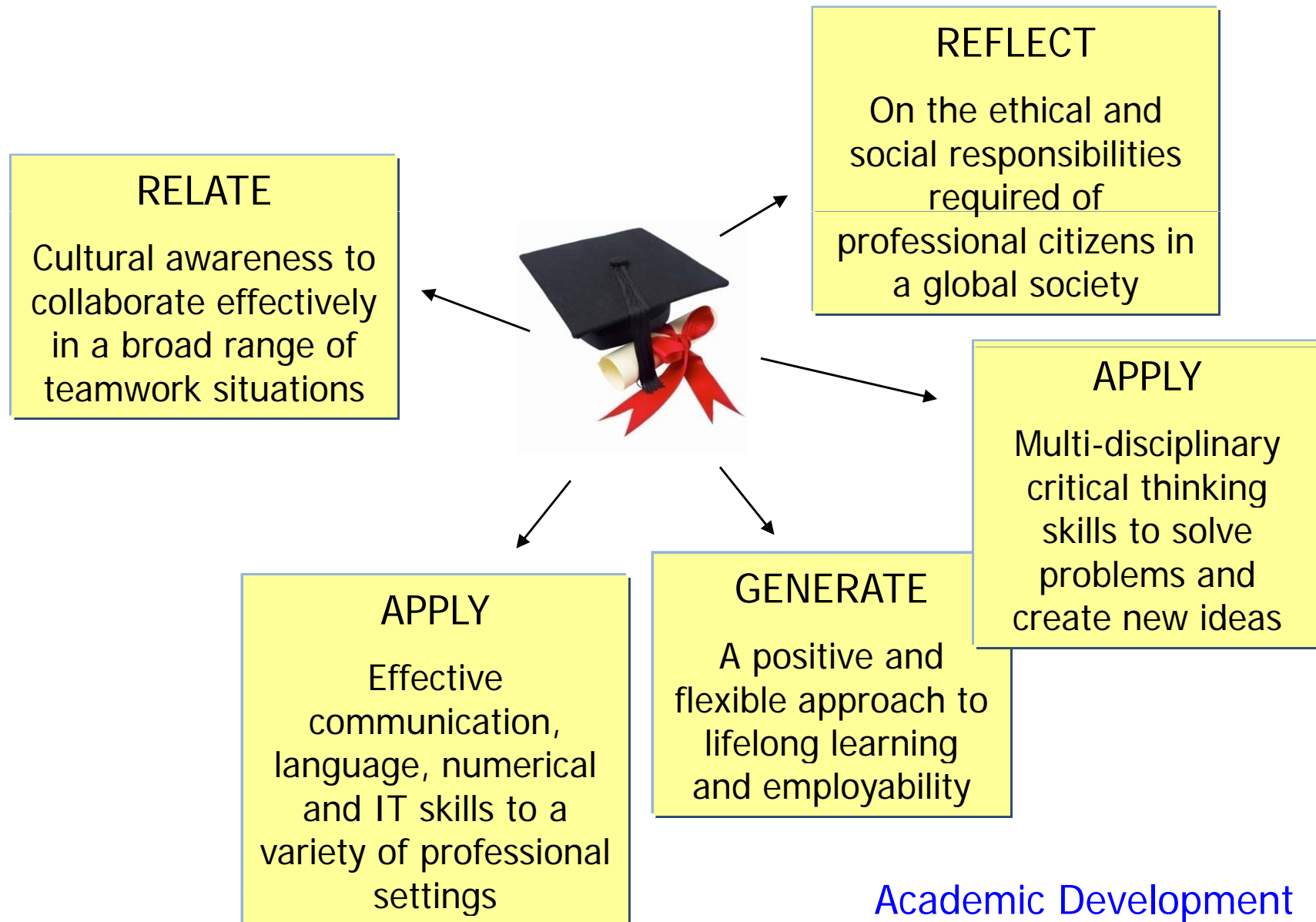
Outcomes

CityU Ideal Graduates as Professionals

University strategic plan 2003-2008



On graduation, CityU students will be able to



HKIE Accreditation Criteria of Engineering Degree Programmes

1. An ability to apply knowledge of mathematics, science, and engineering appropriate to the degree discipline
2. An ability to design and conduct experiments, as well as to analyse and interpret data
3. An ability to design a system, component or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability
4. An ability to function on multi-disciplinary teams
5. An ability to identify, formulate and solve engineering problems
6. An ability to understand professional and ethical responsibility
7. An ability to communicate effectively
8. An ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public
9. An ability to stay abreast of contemporary issues
10. An ability to recognize the need for, and to engage in life-long learning
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the degree discipline
12. An ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations

Programme Intended Learning Outcomes

BEng in Electronic and Communication Engineering (BEngECE)

1. An ability to apply knowledge of mathematics, science and engineering.
2. An ability to design and conduct experiments as well as to analyze and interpret data.
3. An ability to design a system, component, or process that conforms to a given specification within realistic constraints.
4. An ability to function effectively and responsibly as a team member.
5. An ability to identify, formulate and solve engineering problems.
6. Awareness of professional and ethical responsibilities.
7. An ability to communicate effectively.
8. Knowledge in contemporary issues and an awareness of the impact of engineering solutions in a broad, global and societal context.
9. Recognition of the need for life-long learning.
10. An ability to use necessary engineering tools.

Constructive Alignment of PILOs with Stakeholders

PILO	1	2	3	4	5	6	7	8	9	10
Other constituents										
CityUG(1)	✓	✓	✓		✓					✓
CityUG(2)					✓			✓		
CityUG(3)			✓		✓			✓		
CityUG(4)				✓			✓			✓
CityUG(5)				✓		✓		✓	✓	
HKIE(a)	✓									
HKIE(b)		✓								
HKIE(c)			✓							
HKIE(d)				✓						
HKIE(e)					✓					
HKIE(f)						✓				
HKIE(g)							✓			
HKIE(h)								✓		
HKIE(i)								✓		
HKIE(j)									✓	
HKIE(k)										✓
HKIE(l)		✓					✓			✓

Constructive Alignment of BEngECE PILOs with Courses

Courses \ PILO	1	2	3	4	5	6	7	8	9	10
EE2000 Logic Circuit Design	T/P		T/P							
EE2003 Circuit Theory	T/P									
EE2070 Fundamental Electronics Laboratory	P	P			P	T/P	P			P
EE2104 Introduction to Electromagnetics	T/P									
EE2106 Electronic Devices and Circuits	T/P									
EE2170 Analogue Electronics Laboratory	P	P			P	T/P	P			P
EE3108 Engineering Analysis	T/P				T/P					T/P
EE3008 Principles of Communications	T/P	T/P		P	T/P		P	T		P
EE3109 Applied Electromagnetics	T/P	T/P		P	T/P		P			P
EE3101 Communication Engineering	T/P/M	T/P		P	T/P		P			P
EE3110 Analogue Electronic Circuits	T/P	T/P		P	T/P		P			P
EE3114 Systems and Control	T/P	T/P		P	T/P		P			P
EE3118 Linear Systems and Signal Analysis	T/P	T/P		P	T/P		P			P
EE3120 μ P and Assembly Language Programming	T/P	T/P	T/P	P	T/P		P			T/P
CS2363 Computer Programming	T/P		T/P		T/P					T/P
MA2149 Mathematical Analysis	T/P									
MA3150 Advanced Mathematical Analysis	T/P									
EE3003(I) Electronic Product Design	P	P	T/P	P	P	T/P	P		P	T/P
EE3003(II) Electronic Product Design	T/P	PM	T/P/M	P/M	P	T/P	P	P	P	T/P/M
EE3014 Engineers in Society						T/P		T/P/M		
EE4091 Basic Training I	T/P	P	T/P		P					T/P
EE4092 Basic Training II	P	P	P	#T/P/M	P	P/M	P		P	P
EE4181 Final Year project	P	P	P		P/M		P/M	P	P/M	P
Elective (A), (B) and (C)	T/P		T/P		T/P					
English							T/P			
OOD								T/P		
General Education								T/P		
Chinese Civilization								T/P		

T-taught, P-practiced, M-measured