

## Bachelor of Engineering (Honours) in Electrical Engineering

### 電機工程學(榮譽)工學士 (84066)

#### Programme Structure

Students are required to complete the following requirements with satisfactory results for an honours degree:





Requirements		No. of Credits
<b>General University Requirements (GUR)</b>		<b>9 – 18</b>
2 Cluster Area Requirements (CAR) subjects (including 1 designated as China-related) <sup>+</sup> , 3 credits each		6
1 Service Learning (SL) OR Free Elective subject <sup>^</sup>		3
Up to 3 Language and Communication Requirements (LCR) subjects (2 in English & 1 in Chinese), 3 credits each  <i>(for students who have not met the equivalent standard of undergraduate degree LCR based on their prior sub-degree studies only)*</i>		0 – 9
<b>Discipline Specific Requirements (DSR)</b> <i>(Please refer to the table below for details)</i>		<b>52 – 64</b>
Foundation	Up to 4 subjects, 3 credits each <i>(for students without sufficient relevant knowledge in engineering and/or mathematics only)</i>	0 – 12
Compulsory	15 subjects, 3 credits each (except 2 subjects of 2 credits each & 1 subject of 6 credits)	46
Elective	2 subjects, 3 credits each	6
<b>Practical Training</b>		<b>3 training credits</b>
<b>Work-Integrated Education (WIE)</b>		<b>NIL</b>
210 hours of work-based learning experience <i>(Relevant work experience accumulated during or after sub-degree studies may be considered for fulfilment of WIE. Students will be invited to submit application for consideration after programme commencement.)</i>		
<b>Total</b>		<b>64 – 85 (including 3 training credits)</b>

<sup>+</sup> Within these subjects, students need to fulfil the English and Chinese reading and writing requirements.

<sup>^</sup> Subject to the review in early 2020, all students may be required to take a Service Learning subject.

\* Students' fulfilment of LCR will be assessed based on their academic records of sub-degree studies. They will be advised if they are required to take LCR subjects on admission.

## Discipline Specific Requirements (DSR)

Subject Nature	Subject Title
<b>Foundation</b> <i>(for students without sufficient relevant knowledge only)</i>	Fundamental Mathematics
	Fundamental Engineering Mechanics
	Fundamental Electrical Engineering
	Fundamental Computing in Engineering
<b>Compulsory</b> <i>(all 15 subjects)</i>	Analogue and Digital Circuits
	Applied Electromagnetics of Electrical Engineering
	Capstone Project (6 credits)
	Computer System Principles 
	Control System Analysis 
	Electrical Machines
	Engineering Analysis Methods
	Engineering Economics and Management
	Linear Systems and Signal Processing 
	Material Science of Electrical Engineering
	Power Systems 
	Power Transmission and Distribution
	Professional Communication in Chinese (2 credits)
	Professional Communication in English (2 credits)
	Society and the Engineer
<b>Elective<sup>#</sup></b> <i>(any 2 subjects out of the 8 elective subjects)</i>	Design of Mechanical Systems in Buildings
	Electric Traction and Drives
	High Voltage Engineering
	Intelligent Buildings
	Intelligent Systems Applications in Electrical Engineering
	Power System Analysis and Dynamics
	Power System Control and Operation
	Power System Protection
<b>Compulsory Practical Training</b>	Multidisciplinary Manufacturing Project

<sup>#</sup> Offering of any elective subjects is subject to sufficient enrolment.



This course has been included in the list of reimbursable courses under the Continuing Education Fund. The mother course (Bachelor of Engineering in Electrical Engineering) of this module is recognised under the Qualifications Framework (QF Level 5).