

**THE HONG KONG INSTITUTION OF ENGINEERS  
SCHEME “A” GRADUATE TRAINING**

**Eligibility to Scheme “A” Training  
for Graduates of Engineering Programmes Accredited by the HKIE**

**University of Macau**

Remarks:

- (i) Please refer to the separate document titled “Accreditation Notes of the HKIE Accredited Engineering Degree Programmes” under “Related Notes” for the notes of the HKIE accredited engineering degree programmes.
- (ii) The eligibility results align with accreditation status granted by the HKIE. For details of applicable graduates / intake year, please refer to individual case for details.
- (iii) More information is available from the Membership Section on the admission requirements for respective Disciplines.

<b>Scheme “A” Ref No</b>	MacauU-1	
<b>Degree</b>	<b>Bachelor of Science in Civil Engineering (FT) (@)</b>	
<b>JUPAS Programme Code</b>	--	
<b>Accredited until intake year of</b>	2024 (49)	
<b>Eligible Discipline(s)</b>	<b>Conditions (if applicable)</b>	<b>Applicability</b>
BUD	N/A	From 2011 Intake  Up to 2019 Intake
	Remarks: please refer to the "Admission Requirements for the Building Discipline" from Downloads - Membership for the top-up requirements to be fulfilled before applying to the class of Member in Building Discipline.	
	N/A	From 2020 Intake  Up to 2024 Intake
CVL	N/A	From 2011 Intake  Up to 2024 Intake
GEL	This programme is eligible for Scheme "A" in Geotechnical (GEL) Discipline on condition that the graduates must have completed one of the following: (i) "CIVL 4010 (CEEB 456) - Earth Retaining Systems", (ii) "CIVL 4011 (CEEB 457) - Application of Numerical Methods in Geotechnical Engineering", or (iii) a project* involving geotechnical design.  * Project details such as the topic and abstract should be submitted with the trainee registration (Form TD2). Each case shall be referred to the Panel for final review and decision.	From 2011 Intake  Up to 2024 Intake

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<b>Degree</b>	<b>Bachelor of Science in Civil Engineering (FT) (@)</b>	
<b>JUPAS Programme Code</b>	--	
<b>Accredited until intake year of</b>	2024 (49)	
<b>Eligible Discipline(s)</b>	<b>Conditions (if applicable)</b>	<b>Applicability</b>
LTE	This programme is eligible for Scheme "A" in Logistics & Transportation Engineering (LTE) Discipline on condition that the graduates must have completed: (1) "CIVL 4019 (CEEB 465) - Traffic Engineering", and (2) "CIVL 4020 (CEEB 466) - Transportation Planning and Public Transport System".	From 2011 Intake  Up to 2024 Intake
STL	N/A	From 2020 Intake  Up to 2024 Intake

<b>Scheme “A” Ref No</b>	MacauU-2	
<b>Degree</b>	<b>Bachelor of Science in Electrical and Computer Engineering (FT) (@)</b>	
<b>JUPAS Programme Code</b>	--	
<b>Accredited until intake year of</b>	2024 (50)	
<b>Eligible Discipline(s)</b>	<b>Conditions (if applicable)</b>	<b>Applicability</b>
CAI	This programme is eligible for Scheme "A" in Control, Automation & Instrumentation (CAI) Discipline on condition that the graduates have completed the Electrical and Computer Engineering Elective Courses (total 27 Credits) from the list of CAI_Appendix I (MacauU).	From 2011 Intake  Up to 2019 Intake
	N/A	From 2020 Intake  Up to 2024 Intake
ELL	This programme is eligible for Scheme "A" in Electrical (ELL) Discipline on condition that the graduates have completed: (1) an electrical engineering related project* comprising not less than 200 project work hours (declaration by students is required), and (2) "Engineering in Society" with not less than 30 contact hours  * Project details such as the topic and abstract should be submitted with the trainee registration (Form TD2). Each case shall be referred to the Panel for final review and decision.	From 2011 Intake  Up to 2019 Intake

**Eligibility to HKIE Scheme “A” Training  
University of Macau**

<b>Scheme “A” Ref No</b>	MacauU-2	
<b>Degree</b>	<b>Bachelor of Science in Electrical and Computer Engineering (FT) (@)</b>	
<b>JUPAS Programme Code</b>	--	
<b>Accredited until intake year of</b>	2024 (50)	
<b>Eligible Discipline(s)</b>	<b>Conditions (if applicable)</b>	<b>Applicability</b>
ELL ( <i>cont’d</i> )	<p>This programme is eligible for Scheme "A" in Electrical (ELL) Discipline on condition that the graduates have completed:</p> <ul style="list-style-type: none"> <li>(1) an electrical engineering related project* comprising not less than 200 project work hours (declaration by students is required), and</li> <li>(2) at least one course from each of the following Groups: <ul style="list-style-type: none"> <li>Group I: "ECEN 4006 (ECEB 454) - Renewable Energy Conversion", "ECEN 4007 (ECEB 455) - Power System Design and Implementation"; and</li> <li>Group II: "ECEN 3007 (ECEB 354) - Power Electronics", "ECEN 3010 (ECEB 357) - Power Electronics Design and Implementation", "ECEN 3011 (ECEB 358) - Electric Drive"</li> </ul> </li> </ul> <p>* Project details such as the topic and abstract should be submitted with the trainee registration (Form TD2). Each case shall be referred to the Panel for final review and decision.</p>	<p>From 2020 Intake</p> <p>Up to 2024 Intake</p>

<b>Scheme “A” Ref No</b>	MacauU-3	
<b>Degree</b>	<b>Bachelor of Science in Electromechanical Engineering (FT) (@)</b>	
<b>JUPAS Programme Code</b>	--	
<b>Accredited until intake year of</b>	2024 (51)	
<b>Eligible Discipline(s)</b>	<b>Conditions (if applicable)</b>	<b>Applicability</b>
BSS	<p>N/A</p> <p>Remarks: please refer to the "Admission Requirements for the Building Services Discipline" from Downloads - Membership for the top-up requirements to be fulfilled before applying to the class of Member in Building Services Discipline.</p>	<p>From 2011 Intake</p> <p>Up to 2019 Intake</p>
MCL	N/A	<p>From 2011 Intake</p> <p>Up to 2024 Intake</p>

## Eligibility to HKIE Scheme “A” Training University of Macau

Note:

1. Abbreviations of the HKIE Disciplines

ACE	: Aircraft	GAS	: Gas
BME	: Biomedical	GEL	: Geotechnical
BSS	: Building Services	INF	: Information
BUD	: Building	LTE	: Logistics & Transportation Engineering
CAI	: Control, Automation & Instrumentation	MAT	: Materials
CML	: Chemical	MCL	: Mechanical
CVL	: Civil	MIS	: Manufacturing, Industrial & Systems <i>(renamed from Manufacturing &amp; Industrial Engineering (MIE) with effect from Session 2020/2021)</i>
ELL	: Electrical	MNA	: Marine & Naval Architecture
ENS	: Electronics	STL	: Structural
ENV	: Environmental		
ENY	: Energy		
FRE	: Fire		

**Eligibility to Scheme “A” Training  
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**University of Macau**

Scheme “A” Ref No: MacauU-2

**Degree: Bachelor of Science in Electrical and Computer Engineering (Full Time)**

This programme is eligible for Scheme "A" in Control, Automation & Instrumentation (CAI) Discipline on condition that the graduates have completed the Electrical and Computer Engineering Elective Courses (total 27 Credits) from the below list:

<b>Codes</b>	<b>Courses</b>	<b>Credits</b>
ECEB250	Electromagnetism	3
ECEB251	Numerical Method and Computation	3
ECEB252	Probability and Statistics	3
ECEB253	Linear Algebra	3
ECEB255	Semiconductor Device Physics	3
ECEB256	Computer Systems and Network Fundamentals	3
ECEB257	Introduction to Electro-robot Design	3
ECEB258	Internship	3
ECEB259	Internship I	1.5
ECEB260	Internship II	1.5
ECEB450	Digital Control	3
ECEB451	Special Topic in ECE	3
ECEB350	Introduction to Biomedical Engineering	3
ECEB352	Biomedical Electronics	3
ECEB353	Introduction to Biomedical Signal Analysis	3
ECEB452	Biomedical Measurement and Instrumentation	3
ECEB453	Introduction to Biomedical Imaging	3
ECEB354	Power Electronics	3
ECEB355	Power Systems Analysis	3
ECEB356	Power Quality and Energy Saving	3
ECEB357	Power Electronics Design and Implementation	3
ECEB358	Electric Drive	3
ECEB364	Advanced Topics in Analog & Mixed-signal Integrated Circuit Design	3
ECEB365	Introduction to Data Converters	3
ECEB366	Introduction to Radio-frequency Circuits and Systems	3
ECEB368	Analog Integrated Circuit Design	3
ECEB359	Principles of Communication Systems	3
ECEB360	RF and Microwave Techniques for Wireless Systems	3
ECEB361	Antenna Theory and Applications in Wireless Communications	3
ECEB362	Cellular Communication Network design and Optimization	3
ECEB363	Introduction to Wireless Technology for Digital Game	3
ECEB457	Introduction to Wireless Sensing Network	3
ECEB458	Microwave and Millimeter Wave System Design	3