

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

**Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
of Engineering Programmes Accredited by the HKIE
(Curriculum under “3+3+4” Academic Structure)**

The Hong Kong University of Science and Technology

Remarks:

- (i) The “3+3+4” academic structure was implemented in the higher education sector in September 2012. Under the new academic structure, students would receive six-year secondary education and four-year higher education.
- (ii) 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.
- (iii) More information is available from the Membership Section on the admission requirements for respective Disciplines.

* 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.

Scheme “A” Ref No	HKUST-22	
Degree	BEng (Hons) Degree in Chemical Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CML	N/A	From 2018 Graduates Up to 2025 Intake

Scheme “A” Ref No	HKUST-23	
Degree	BEng (Hons) Degree in Chemical and Biomolecular Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2020(60)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CML	N/A	From 2018 Graduates Up to 2020 Intake

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	HKUST-24	
Degree	BEng (Hons) Degree in Chemical and Environmental Engineering (FT) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CML	N/A	From 2018 Graduates Up to 2025 Intake
ENV	This programme is eligible for Scheme "A" in Environmental (ENV) Discipline on condition that graduates must have completed one of the following courses as an elective: (i) "CENG 4140 - Energy Resources, Conversions and Technologies", (ii) "CIVL 4470 - Air Quality Control and Management", (iii) "ENVR 3110 - Sustainable Development", or (iv) "ENVR 3220 - Energy Resources and Usage"	From 2018 Graduates Up to 2020 Intake
	This programme is eligible for Scheme "A" in Environmental (ENV) Discipline on condition that the graduates must have completed one of the following elective courses: (i) "ENVR 3110 - Sustainable Development" (ii) "CIVL 4450 - Carbon Footprint Analysis and Reduction" (iii) "CENG 4140 - Energy Resources, Conversions and Technologies" (iv) "ENEG 4320 - Energy Storage Technology" (v) "ENVR 3220 - Energy Sources and Usage"	From 2021 Intake Up to 2025 Intake

Scheme “A” Ref No	HKUST-25	
Degree	BEng (Hons) Degree in Civil Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025(61)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CVL	N/A	From 2018 Graduates Up to 2025 Intake

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	HKUST-25	
Degree	BEng (Hons) Degree in Civil Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025(61)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
GEL	N/A	From 2018 Graduates Up to 2025 Intake
LTE	This programme is eligible for Scheme "A" in Logistics & Transportation (LTE) Discipline on condition that the graduates must have completed: 1) "CIVL 3610 - Traffic and Transportation Engineering" , and 2) One of the following courses: (i) "CIVL 4100I Introduction to Data Analytics for Smart Transportation Systems" (ii) "CIVL 4100L - Public Transport Planning and Operation" (iii) "CIVL 4620 - Transportation System Operations"	From 2021 Intake Up to 2025 Intake
STL	N/A	From 2018 Graduates Up to 2025 Intake

Scheme “A” Ref No	HKUST-26	
Degree	BEng (Hons) Degree in Civil and Environmental Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CVL	N/A	From 2018 Graduates Up to 2025 Intake
ENV	N/A	From 2018 Graduates Up to 2025 Intake

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	HKUST-26	
Degree	BEng (Hons) Degree in Civil and Environmental Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
GEL	N/A	From 2018 Graduates Up to 2025 Intake
LTE	This programme is eligible for Scheme "A" in Logistics & Transportation (LTE) Discipline on condition that the graduates must have completed two of the following courses: (i) "CIVL 3610 - Traffic and Transportation Engineering" (ii) "CIVL 4100I Introduction to Data Analytics for Smart Transportation Systems" (iii) "CIVL 4100L - Public Transport Planning and Operation" (iv) "CIVL 4620 - Transportation System Operations"	From 2021 Intake Up to 2025 Intake
STL	N/A	From 2018 Graduates Up to 2020 Intake
	This programme is eligible for Scheme "A" in Structural (STL) Discipline on condition that the graduates must have completed at least one of the following courses: (i) "CIVL 4370 - Computer Methods of Structural Analysis", (ii) "CIVL 4330 Introduction to Structural Dynamics", (iii) "CIVL 4380 Introduction to Wind Effects on Buildings and Structures", (iv) "CIVL 3210 Introduction to Construction Management", or (v) "CIVL 4270 Construction Law and Contract Administration".	From 2021 Intake Up to 2025 Intake

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Scheme “A” Ref No	HKUST-27	
Degree	BEng (Hons) Degree in Computer Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ACE	<p>This programme is eligible for Scheme “A” in Aircraft (ACE) Discipline on condition that graduates must have completed one of the following courses:</p> <ul style="list-style-type: none"> (i) "MECH 1901 - Automotive Engineering", (ii) "MECH 1906 - Mechanical Engineering for Modern Life", (iii) "ELEC 2200 - Digital Circuits and Systems", (iv) "ELEC 3200 - System Modeling, Analysis and Control", (v) "ELEC 3600 - Electromagnetics: From Wireless to Photonic Applications", (vi) "ELEC 4510 - Semiconductor Materials and Devices". 	<p>From 2018 Graduates Up to 2020 Intake</p>
	<p>This programme is eligible for Scheme “A” in Aircraft (ACE) Discipline on condition that graduates must have completed one of the following courses:</p> <ul style="list-style-type: none"> (i) "MECH 1901 - Automotive Engineering", (ii) "MECH 1906 - Mechanical Engineering for Modern Life", (iii) "ELEC 3200 - System Modeling, Analysis and Control", (iv) "ELEC 3600 - Electromagnetics: From Wireless to Photonic Applications", (v) "ELEC 4510 - Semiconductor Materials and Devices" 	<p>From 2021 Intake Up to 2025 Intake</p>
CAI	N/A	<p>From 2018 Graduates Up to 2025 Intake</p>
ENS	N/A	<p>From 2018 Graduates Up to 2025 Intake</p>
INF	N/A	<p>From 2018 Graduates Up to 2020 Intake</p>

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Scheme “A” Ref No	HKUST-27	
Degree	BEng (Hons) Degree in Computer Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
INF (<i>cont’d</i>)	<p>This programme is eligible for Scheme "A" in Information (INF) Discipline on condition that the graduates must have completed the following categories:</p> <p>Category 1: i) "COMP 4211 - Machine Learning", or ii) "COMP 4331 - Data Mining", or iii) "COMP 4332 - Big Data Mining and Management".</p> <p>Category 2: i) "COMP 3111 - Software Engineering", or ii) "COMP 4111 - Software Engineering Practices".</p> <p>Category 3: i) "COMP 4621 - Computer Communication Networks I", or ii) "COMP 4631 - Computer and Communication Security", or iii) "COMP 4632 - Practicing Cybersecurity: Attacks and Counter-measures", or iv) "ELEC 3120 - Computer Communication Networks".</p> <p>Category 4: i) "COMP 3311 - Database Management Systems", or ii) "COMP 4311 - Principles of Database Design", or iii) "COMP 4631 - Computer and Communication Security", or iv) "COMP 4632 - Practicing Cybersecurity: Attacks and Counter-measures".</p> <p>Category 5: i) "ELEC 3100 - Signal Processing and Communications", or ii) "ELEC 4130 - Digital Image Processing".</p>	<p>From 2021 Intake</p> <p>Up to 2025 Intake</p>

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Scheme “A” Ref No	HKUST-28	
Degree	BEng (Hons) Degree in Electronic Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ACE	N/A	From 2018 Graduates Up to 2025 Intake
CAI	N/A	From 2018 Graduates Up to 2025 Intake
ENS	N/A	From 2018 Graduates Up to 2025 Intake

Scheme “A” Ref No	HKUST-29	
Degree	BEng (Hons) Degree in Industrial Engineering and Engineering Management (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025(78)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
LTE	This programme is eligible for Scheme "A" in Logistics & Transportation (LTE) Discipline on condition that the graduates must have completed "IELM 2410 – Logistics and Freight Transportation Operations" and "IELM 3410 – Routing and Fleet Management".	From 2018 Graduates Up to 2020 Intake
	This programme is eligible for Scheme "A" in Logistics & Transportation (LTE) Discipline on condition that the graduates must have completed two of the following courses: (i) "IEDA 2410 - Logistics and Freight Transportation Operations" (ii) "IEDA 3410 - Routing and Fleet Management" (iii) "IEDA 3901 - Transportation Systems"	From 2021 Intake Up to 2025 Intake

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	HKUST-29	
Degree	BEng (Hons) Degree in Industrial Engineering and Engineering Management (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025(78)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
MIS	N/A	From 2018 Graduates Up to 2025 Intake

Scheme “A” Ref No	HKUST-30	
Degree	BEng (Hons) Degree in Logistics Management and Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2020(33)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
LTE	N/A	From 2018 Graduates Up to 2020 Intake
MIS	N/A	From 2018 Graduates Up to 2020 Intake

Scheme “A” Ref No	HKUST-31	
Degree	BEng (Hons) Degree in Mechanical Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ACE	N/A	From 2018 Graduates Up to 2025 Intake

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	HKUST-31	
Degree	BEng (Hons) Degree in Mechanical Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
BSS	N/A 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.	From 2018 Graduates Up to 2020 Intake
ENV	This programme is eligible for Scheme "A" in Environmental (ENV) Discipline on condition that graduates must have completed: 1) "MECH 4350 - Indoor Air Quality in Buildings", and 2) One of the following courses as elective: (i) "MECH 1902 - Energy Systems in a Sustainable World", (ii) "MECH 3901 - Green Building Technology", (iii) "MECH 3902 - Solar Energy Technology", or (iv) "MECH 4360 - Introduction to Intelligent Building Systems"	From 2018 Graduates Up to 2020 Intake
	This programme is eligible for Scheme "A" in Environmental (ENV) Discipline on condition that the graduates must take “Energy Option” and must have completed the following: 1) "MECH 4350 - Indoor Air Quality in Buildings”, and 2) One of the following elective courses: (i) "MECH 1902 - Energy Systems in a Sustainable World", (ii) "MECH 3300 - Energy Conversion", (iii)"MECH 4360 - Introduction to Intelligent Building Systems".	From 2021 Intake Up to 2025 Intake
FRE	N/A Remarks: please refer to the "Admission Requirements for the Fire Discipline" from Downloads - Membership for the top-up requirements to be fulfilled before applying to the class of Member in Fire Discipline.	From 2018 Graduates Up to 2020 Intake

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
The Hong Kong University of Science and Technology

Scheme “A” Ref No	HKUST-31	
Degree	BEng (Hons) Degree in Mechanical Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENY	N/A	From 2021 Intake Up to 2025 Intake
GAS	N/A	From 2018 Graduates Up to 2025 Intake
MCL	N/A	From 2018 Graduates Up to 2025 Intake
MNA	<p>Graduates of this programme would be eligible to join Marine & Naval Architecture (MNA) Scheme "A" Training on conditions that the candidate should (1) have sea time and / or shipyard experience; (2) have completed Individual Projects* with a marine engineering design theme or naval architecture element; and (3) top-up the relevant minimum core subject areas of the MNA discipline (including Marine Engineering, Electronic Engineering and Naval Architecture).</p> <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>	From 2018 Graduates Up to 2020 Intake

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Scheme “A” Ref No	HKUST-31	
Degree	BEng (Hons) Degree in Mechanical Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management) (%)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
MNA (<i>cont’d</i>)	<p>Graduates of this programme would be eligible for Scheme “A” in Marine & Naval Architecture (MNA) Discipline on condition that the graduates should:</p> <ol style="list-style-type: none"> (1) have sea time and / or shipyard experience; (2) complete Individual Projects* with a marine engineering design theme or naval architecture element; (3) top-up the relevant minimum core subject areas / topics of the MNA discipline (including: (a) Marine Engineering, Materials Technology / Material Engineering, Strength of Material, Robotics and Artificial Intelligence of Electrical and Electronic Engineering, and Naval Architecture for Marine Engineering; or (b) Materials Technology / Material Engineering, Ship Design / Shipbuilding Technology, Ship Theory / Principles of Naval Architecture, Hydrodynamics, Ship Powering and Ship Propulsion, and Robotics and Artificial Intelligence of Electrical and Electronic Engineering for Naval Architecture); and (4) have completed the elective courses as listed below: <ol style="list-style-type: none"> 4.1 for Marine Engineering – <ul style="list-style-type: none"> "MECH 1902 - Energy System in a Sustainable World"; "MECH 3300 - Energy Conversion"; "MECH 4750 - Mechanical Vibration"; or 4.2 for Naval Architecture – <ul style="list-style-type: none"> "MECH 3300 - Energy Conversion"; "MECH 4750 - Mechanical Vibration". <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 2021 Intake</p> <p>Up to 2025 Intake</p>

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	HKUST-32	
Degree	BEng (Hons) Degree in Aerospace Engineering (FT) (including the programme under the Dual Degree Programme in Technology and Management)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	2025	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ACE	N/A	From 2018 Graduates Up to 2025 Intake
MCL	N/A Remarks: graduates of this programme who wish to pursue MHKIE in MCL Discipline are required to top-up* relevant subject in the subject area of Design & Manufacturing. Responsible experience towards Corporate Membership in MCL Discipline will only be counted after the top-up requirement has been fulfilled. * MCL notes for HKUST-32: Graduates of this programme who have completed the following course of this programme are considered to have satisfied the top-up requirement in the subject area of Design & Manufacturing: (i) "MECH 2520 – Design and Manufacturing"	From 2018 Graduates Up to 2020 Graduates
	This programme is eligible for Scheme “A” in MCL Discipline on condition that the graduates are required to complete the elective course "MECH 2520 - Design and Manufacturing I" to satisfy the subject area of Design and Manufacturing.	From 2021 Graduates Up to 2025 Intake

Scheme “A” Ref No	HKUST-33	
Degree	BEng (Hons) Degree in Bioengineering (FT) (including the programme under the Dual Degree Programme in Technology and Management)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	Provisional	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
BME	N/A	First Cohort of Graduates (2021) only

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Scheme “A” Ref No	HKUST-33	
Degree	BEng (Hons) Degree in Bioengineering (FT) (including the programme under the Dual Degree Programme in Technology and Management)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	Provisional	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CML	N/A	First Cohort of Graduates (2021) only

Scheme “A” Ref No	HKUST-34	
Degree	BEng (Hons) Degree in Sustainable Energy Engineering (FT)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	Provisional	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENV	N/A	First Cohort of Graduates (2021) only
ENY	N/A	First Cohort of Graduates (2021) only

Scheme “A” Ref No	HKUST-35	
Degree	BEng (Hons) Degree in Decision Analytics (FT) (including the programme under the Dual Degree Programme in Technology and Management)	
JUPAS Programme Code	JS5200	
Accredited until intake year of	Provisional	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
MIS	N/A	First Cohort of Graduates (2021) only

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards* The Hong Kong University of Science and Technology

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 & 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		