

**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 Chinese University of Hong Kong

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	CUHK-10	
Degree	BEng (Hons) Degree in Biomedical Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
BME	N/A	From 2018 Graduates Up to 2023 Intake
ENS	N/A	2018 to 2019 Graduates

Scheme “A” Ref No	CUHK-11	
Degree	BEng (Hons) Degree in Electronic Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CAI	N/A	2018 to 2019 Graduates

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Scheme “A” Ref No	CUHK-11	
Degree	BEng (Hons) Degree in Electronic Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CAI (<i>cont’d</i>)	This programme is eligible for Scheme "A" in Control, Automation and Instrumentation (CAI) Discipline on condition that the graduates must have completed any two of the following elective groups: 1) "BMEG 3101 - Medical Instrumentation and Design" 2) "BMEG 3420 - Medical Robotics" 3) "ELEG 3207 - Introduction to Power Electronics" 4) "ELEG 3701 - Embedded Systems Design" 5) "ELEG 4312 - Micro-optic Devices and Systems" 6) "ELEG 4511 - Digital Signal Processing and Applications" 7) "ELEG 5101 - Advanced Medical Instrumentation and Biosensors"	From 2020 Graduates Up to 2023 Intake
ENS	N/A	From 2018 Graduates Up to 2023 Intake
INF	This programme is eligible for Scheme "A" in Information (INF) Discipline on condition that the students must have completed two of the following three elective courses: (i) "CSCI 2100 - Data Structures" (ii) "CSCI 2120 - Introduction to Software Engineering" (iii) "IERG 3310 - Computer Networks"	From 2018 Graduates Up to 2023 Intake

Scheme “A” Ref No	CUHK-12	
Degree	BEng (Hons) Degree in Information Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ACE	N/A	2018 to 2019 Graduates
ENS	N/A	2018 to 2019 Graduates

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Scheme “A” Ref No	CUHK-12	
Degree	BEng (Hons) Degree in Information Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
INF	N/A	From 2018 Graduates Up to 2023 Intake

Scheme “A” Ref No	CUHK-13	
Degree	BEng (Hons) Degree in Mechanical and Automation Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (46)(59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ACE	N/A	From 2018 Graduates Up to 2023 Intake
CAI	<p>This programme is eligible for Scheme "A" in Control, Automation and Instrumentation (CAI) Discipline on condition that the students must have completed the Final Year Project courses ("MAEG 4998 – Final Year Project I" & "MAEG 4999 – Final Year Project II") on a project* related to Control, Automation and Instrumentation.</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>	2018 to 2019 Graduates

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Scheme “A” Ref No	CUHK-13	
Degree	BEng (Hons) Degree in Mechanical and Automation Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (46)(59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
CAI (<i>cont’d</i>)	<p>This programme is eligible for Scheme "A" in Control, Automation and Instrumentation (CAI) Discipline on condition that the graduates must have completed any two of the following elective groups:</p> <ol style="list-style-type: none"> 1) "ELEG 3101 - Medical Instrumentation and Sensors" 2) "MAEG 1010 - Introduction to Robot Design" 3) "MAEG 3060 - Introduction to Robotics" 4) "MAEG 3080 - Fundamentals of Machine Intelligence" 5) "MAEG 4040 - Mechatronic Systems" 6) "MAEG 4050 - Modern Control Systems Analysis and Design" 7) "MAEG 5070 - Nonlinear Control Systems" 8) "MAEG 5090 - Topics in Robotics" 9) "MAEG 5010 / ENGG 5402 - Advanced Robotics" 10) "MAEG 5020 / ENGG 5403 - Topics in Linear Control Systems / Linear System Theory and Design" 11) "MAEG 5050 / ENGG 5404 - MEMS and Nano-Robotics / Micromachining and Microelectromechanical Systems" 	<p>From 2020 Graduates</p> <p>Up to 2023 Intake</p>
ENS	N/A	<p>From 2018 Graduates</p> <p>Up to 2023 Intake</p>
ENY	<p>This programme is eligible for Scheme "A" in Energy (ENY) Discipline on condition that the graduates must have completed at least one of the following elective groups:</p> <p>Group 1: "MAEG 4030 - Heat Transfer" or "MAEG 4080 - Introduction to Combustion"</p> <p>Group 2: "EEEN 4050 - Energy Storage Devices and Systems"</p> <p>Group 3: "EEEN 2020 - Renewable Energy Technologies" or "EEEN 4020 - Solar Energy and Photovoltaic Technology"</p> <p>Group 4: "EEEN 3010 - Building Automation and Control"</p> <p>Group 5: "EEEN 4030 - Nuclear Energy and Risk Assessment" or "EEEN 4060 - Energy Distribution"</p>	2018 to 2019 Graduates

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	CUHK-13	
Degree	BEng (Hons) Degree in Mechanical and Automation Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (46)(59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENY (<i>cont’d</i>)	N/A	From 2020 Graduates Up to 2023 Intake
MCL	<p>This programme is eligible for Scheme "A" in Mechanical (MCL) Discipline on condition that the graduates must have completed any TWO of the following elective groups:</p> <ol style="list-style-type: none"> 1) "EEEN 3030 - Engineering Materials" 2) "MAEG 3040 - Mechanical Design" 3) "MAEG 3060 - Introduction to Robotics" 4) "MAEG 4010 – Computer-integrated Manufacturing" 5) "MAEG 4020 - Finite Element Modelling and Analysis" or "MAEG 5130 – Computational Mechanics" <p>Remarks: For those students who do not satisfy the above requirements, their case shall be referred to the Panel for final review and decision.</p>	2018 to 2019 Graduates
	This programme is eligible for Scheme "A" in Mechanical (MCL) Discipline on condition that the graduates must have completed "EEEN 3030 - Engineering Materials".	From 2020 Graduates Up to 2023 Intake
MIS	<p>This programme is eligible for Scheme "A" in Manufacturing, Industrial & Systems Engineering (MIS) Discipline on condition that the graduates must have completed:</p> <ol style="list-style-type: none"> 1) Year 3 core subject of "MAEG 3020 - Manufacturing Technology", and 2) At least 3 elective modules that are appropriate to Manufacturing & Industrial Discipline: "MAEG 3920 - Engineering Design and Applications", "MAEG 4010 - Computer-Integrated Manufacturing", "MAEG 4070 - Engineering Optimization", "MAEG5 100 - Advanced Engineering Design and Optimization", and "SEEM 3500 - Quality Control and Management". 	2018 to 2019 Graduates

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Scheme “A” Ref No	CUHK-13	
Degree	BEng (Hons) Degree in Mechanical and Automation Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (46)(59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
MIS (<i>cont’d</i>)	This programme is eligible for Scheme "A" in Manufacturing, Industrial & Systems Engineering (MIS) Discipline on condition that the graduates must have completed one elective in each of the following groups: (i) Group 1: "MAEG 4010 - Computer Integrated Manufacturing", "MAEG 4070 - Engineering Optimization", "MAEG 4060 - Virtual Reality Systems and Applications", "SEEM 3500 - Quality control and Management" (ii) Group 2: "MGNT 4090 - Technology and Innovation Management", "SEEM 3490 - Information Systems Management"	From 2020 Graduates Up to 2023 Intake

Scheme “A” Ref No	CUHK-14	
Degree	BEng (Hons) Degree in Energy Engineering (FT)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2015	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENV	This programme is eligible for Scheme "A" in Environmental (ENV) Discipline on condition that the graduates must have completed at least two electives from the following five categories (the two electives selected cannot come from the same category): Category 1: "ENSC 4240 - Environmental Impact Assessment" or "GRMD 4204 - Environmental Planning and Assessment" Category 2: "ESSC 4240 - Air Pollution Science and Engineering" Category 3: "GRMD 4202 - Hydrology and Water Resources" Category 4: "MAEG 3030 - Fluid Mechanics" Category 5: "MAEG 4030 - Heat Transfer"	From 2018 Graduates Up to 2015 Intake

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	CUHK-14	
Degree	BEng (Hons) Degree in Energy Engineering (FT)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2015	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENY	<p>This programme is eligible for Scheme "A" in Energy (ENY) Discipline on condition that the graduates must have completed at least two of the following elective groups:</p> <p>Group 1: "MAEG 3030 - Fluid Mechanics" Group 2: "MAEG 4030 - Heat Transfer" or "MAEG 4080 - Introduction to Combustion" Group 3: "ENER 4050 - Energy Storage Devices and Systems" Group 4: "EEEN 3010 - Building Automation and Control" Group 5: "ENER 4030 - Nuclear Energy and Risk Assessment" or "ENER 4060 - Energy Distribution" Group 6: "MAEG 3050 - Introduction to Control Systems"</p>	<p>From 2018 Graduates</p> <p>Up to 2015 Intake</p>

Scheme “A” Ref No	CUHK-15	
Degree	BEng (Hons) Degree in Systems Engineering & Engineering Management (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
INF	N/A	2018 to 2019 Graduates
	<p>This programme is eligible for Scheme "A" in Information (INF) Discipline on condition that the students must have completed the following three elective courses:</p> <p>(i) “SEEM 2460 - Introduction to Data Science” or “SEEM 4630 - E-Commerce Data Mining” (ii) “CSCI 4140 - Open-Source Software Project Development” or “SEEM 3430 - Information Systems Analysis and Design” or “SEEM 3490 - Information Systems Management” or “SEEM 4570 - System Design and Implementation” (iii) “IERG 4210 - Web Programming and Security”</p>	<p>From 2020 Graduates</p> <p>Up to 2023 Intake</p>

Eligibility to HKIE Scheme “A” Training for 2018 Graduates onwards*
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Scheme “A” Ref No	CUHK-15	
Degree	BEng (Hons) Degree in Systems Engineering & Engineering Management (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
LTE	Graduates of this programme are eligible for Scheme "A" in Logistics & Transportation (LTE) Discipline on condition that the Logistics and Supply Chain Management stream is completed.	2018 to 2019 Graduates
	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) "SEEM 4600/ESTR 4500 - Logistics Management", (ii) "SEEM 4670 - Service Systems", (iii) "SEEM 4610/ESTR 4502 - Supply Chain Management"	From 2020 Graduates Up to 2023 Intake
MIS	This programme is eligible for Scheme “A” in Manufacturing, Industrial & Systems Engineering (MIS) Discipline on condition that graduates must take in either Logistics and Supply Chain Management (LSCM) stream or Service Engineering and Management (SEM) stream, and must have completed at least 1 course in each of the following three areas: i) Process / System Design; ii) Industrial Engineering; and iii) Engineering Management	2018 to 2019 Graduates
	This programme is eligible for Scheme "A" in Manufacturing, Industrial & Systems Engineering (MIS) Discipline on condition that graduates must take in either Logistics and Supply Chain Management (LSCM) stream or Service Engineering and Management (SEM) stream, and must have completed the following: (i) "SEEM 3500 - Quality Control and Management", and (ii) "SEEM 3630 / ESTR 3510 - Service Management" or "SEEM 4610 / ESTR 4502 - Supply Chain Management" or "SEEM 2520 - Fundamentals in Financial Engineering" or "SEEM 3580 - Risk Analysis for Financial Engineering"	From 2020 Graduates Up to 2023 Intake

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Scheme “A” Ref No	CUHK-16	
Degree	BEng (Hons) Degree in Computer Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) (%)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENS	N/A	From 2018 Graduates Up to 2023 Intake
INF	N/A	2018 to 2019 Graduates
	This programme is eligible for Scheme "A" in Information (INF) Discipline on condition that the students must have completed one of the following two elective courses: (i) "CSCI 4180 - Introduction to Cloud Computing and Storage" (ii) "CSCI 4430 - Data Communications and Computer Networks"	From 2020 Graduates Up to 2023 Intake

Scheme “A” Ref No	CUHK-17	
Degree	BEng (Hons) Degree in Energy and Environmental Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59) (67)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENV	This programme is eligible for Scheme "A" in Environmental (ENV) Discipline on condition that the graduates must have completed at least two electives from the following five categories (the two electives selected cannot come from the same category): Category 1: "ENSC 4240 - Environmental Impact Assessment" or "GRMD 4204 - Environmental Planning and Assessment" Category 2: "ESSC 4240 - Air Pollution Science and Engineering" Category 3: "GRMD 4202 - Hydrology and Water Resources" Category 4: "MAEG 3030 - Fluid Mechanics" Category 5: "MAEG 4030 - Heat Transfer"	2018 to 2019 Graduates

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Scheme “A” Ref No	CUHK-17	
Degree	BEng (Hons) Degree in Energy and Environmental Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration)	
JUPAS Programme Code	JS4401	
Accredited until intake year of	2023 (59) (67)	
Eligible Discipline(s)	Conditions (if applicable)	Applicability
ENV <i>(cont’d)</i>	N/A	From 2020 Graduates Up to 2023 Intake
ENY	This programme is eligible for Scheme "A" in Energy (ENY) Discipline on condition that the graduates must have completed at least two of the following elective groups: Group 1: "MAEG 3030 - Fluid Mechanics" Group 2: "MAEG 4030 - Heat Transfer" or "MAEG 4080 - Introduction to Combustion" Group 3: "ENER 4050 - Energy Storage Devices and Systems" Group 4: "EEEN 3010 - Building Automation and Control" Group 5: "ENER 4030 - Nuclear Energy and Risk Assessment" or "ENER 4060 - Energy Distribution" Group 6: "MAEG 3050 - Introduction to Control Systems"	2018 to 2019 Graduates
	N/A	From 2020 Graduates Up to 2023 Intake

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	