

**Scheme "A" Related Notes for
Discipline Matching Results for Accredited Degrees
(Under old curriculum, pre “3+3+4” academic structure)**

- (a) The programme (including the programme under the Dual Degree Programme in Technology and Management) is eligible for BSS Scheme "A" discipline with the top up requirement to be fulfilled. Only graduates in Building Services Stream of the full-time BEng(Hons) Degree in Mechanical Engineering would be eligible to enter into the Building Services discipline without topping up requirements up to Intake year 2003's graduates.
- (b) For graduates of BEng(Hons) Degree in Mechanical Engineering(Building Services Engineering Stream), they have to top-up by requirement set down by the Building Services discipline. However students who have taken 2 compulsory BSS subjects, and in addition to the 2 compulsory BSS subjects, take 4 or 5 elective subjects some of which may be partially related to BSS discipline in their final year may warrant partial exemption, subject to BSS Panel's review on case-by-case basis.
- (c) Only graduates of BEng(Hons) Degree in Mechanical Engineering(Building Services Engineering Stream) were approved to join ENV discipline based on the condition that HKU to include coverage on water pollution and solid waste management for completeness.
- (d) This programme is eligible for MCL discipline Scheme "A" up to Intake year 2001's graduates.
- (e) For ENS discipline Scheme "A" only eligible up to Intake year 2001's graduates.
- (f) The full-time and sandwich BEng(Hons) degree in Civil and Structural Engineering is accepted for Scheme "A" Training for the Geotechnical Discipline. The part-time BEng(Hons) degree in Civil and Structural Engineering does not match fully the requirements of the Geotechnical Discipline but graduates who have taken the Rock Mechanics and Engineering Analysis II options could be eligible for Scheme "A" Training. Each case will have to be individually assessed.
- (g) These degrees are eligible for ENV discipline Scheme "A" up to Intake year 2002's graduates.
- (h) For CAI discipline Scheme "A" only eligible up to Intake year 2002's graduates.
- (i) This programme is eligible to join ELL discipline Scheme "A" up to Intake year 2003's graduates.
- (j) This programme is eligible for MCL Discipline for graduates up to Intake year 2003.
- (k) This programme is eligible to join MNA discipline Scheme "A" up to Intake year 2003's graduates.
- (l) For GAS discipline Scheme "A" only eligible up to Intake year 2003's graduates.
- (m) Graduates of this programme in all Full Time, Sandwich and Part Time modes would be eligible to join ENV Scheme "A" training that (1) One of the Design and Individual Projects* must have an environmental theme and (2) graduates must have taken at least two elective modules that are appropriate to Environmental Discipline, like CSE414, CSE432, CSE460 and CSE461.

* 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.
- (n) The full-time BEng (Hons) in Mechanical Engineering is eligible to join GAS Scheme "A" discipline.
- (p) For MAT discipline Scheme "A" only eligible up to Intake year 2005's graduates.
- (q) Graduates of this degree programme with specialism in Fire Engineering are eligible for FRE Scheme "A" discipline.

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- (r) Only graduates of BEng(Hons) Degree in Mechanical Engineering(Building Services Engineering Stream) were approved to join GAS discipline.
- (s) Graduates of this degree programme would be eligible to join MNA Scheme "A" Training given that (1) the Design and Individual Projects must have a marine structure/ vehicle design theme and (2) to top-up with at least two subject areas in Principles of Naval Architecture, Marine Control Systems, Fluid Mechanics or Thermodynamic.
- (t) The full-time BEng degree course in Civil and Environmental Engineering does not match fully the requirements of the Geotechnical Discipline but graduates who have taken the Geotechnical Design I option could be suitable for Scheme "A" Training. Each case will have to be individually assessed.

- (u1) BEng (Hons) Degree in Mechanical Engineering (FT and SW) - Poly U
BEng (Hons) Degree in Mechanical Engineering (PT) - Poly U
BEng (Hons) Degree in Mechanical Engineering (FT and SW) under the Double Degree in Business Administration and Engineering - Poly U

Graduates of this degree programme up to Intake year 2010 would be required for individual assessment for ENV Scheme "A" Training, that is subject to the proviso that they take the approved courses (For Technical Elective: ME4401, ME4405 and ME4406 / For Advanced Core: ME4407, ME4408, ME4410 and ME4411) and major project* is in environmental.

Graduates of this programme from Intake year 2011 onwards would be required for individual assessment for Environmental Scheme "A" Training, that is subject to the proviso that they take the approved courses (For Advanced Core: ME4407 and ME4413 / For Technical Elective: ME4405, ME4406, ME4411 and ME4415) and topic of major project* is related to environmental engineering.

* 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.

- (u2) BEng (Hons) Degree in Chemical Engineering (FT) under the Dual Degree Programme in Technology and Management- HKUST

Graduates of this programme are eligible for ENV Scheme "A" discipline with the following conditions to be fulfilled:

- a)The major project(s)* must be an environmental related project on noise, air pollution, water pollution and waste management, energy conservation and environmental technology.
- b)More than 50% of elective subjects must be related to Environmental issues as detailed in a).

* 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.

- (u3) BEng (Hons) Degree in Civil and Structural Engineering (FT) - HKUST

Graduates of this programme are eligible for Scheme "A" in ENV Discipline up to 2005 intake.

From 2006 intake and onwards, graduates of this programme are eligible for Scheme "A" in ENV Discipline subject to the following conditions:

- a)The major project(s)* must be an environmental related project on noise, air pollution, water pollution and waste management, energy conservation and environmental technology.
- b)More than 50% of elective subjects must be related to Environmental issues as detailed in a).

BEng (Hons) Degree in Civil and Structural Engineering (FT) under the Dual Degree Programme in Technology and Management - HKUST

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Graduates of this programme are eligible for Scheme "A" in ENV Discipline subject to the following conditions:

- a) The major project(s)* must be an environmental related project on noise, air pollution, water pollution and waste management, energy conservation and environmental technology.
- b) More than 50% of elective subjects must be related to Environmental issues as detailed in a).

* 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.

(u4) BEng (Hons) Degree in Mechanical Engineering (FT) under the Dual Degree Programme in Technology and Management- HKUST

Graduates of this programme are eligible for ENV Scheme "A" discipline with the following conditions to be fulfilled:

- a) The major project(s)* must be an environmental related project on noise, air pollution, water pollution and waste management, energy conservation and environmental technology.
- b) More than 50% of elective subjects must be related to Environmental issues as detailed in a).

* 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.

(u5) BEng (Hons) Degree in Civil Engineering (Law) (FT) under the double degree of BEng (Hons) Degree in Civil Engineering (Law) and Bachelor of Laws - HKU

For this programme to be eligible for ENV Scheme "A" discipline, the candidate must select a project* relating to environmental engineering (12 credits) plus taking at least two out of the five elective environmental subjects (2 x 6 = 12 credits).

* 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.

- (w) Graduates of these programmes who would like to join Building Services Scheme "A", please refer to the "Admission Requirements of the Building Services Discipline" on the top-up requirements to be fulfilled, which is downloadable in the membership section under "Downloads" in the HKIE website.

(y) BEng (Hons) Degree in Civil and Structural Engineering (FT) (including the Dual Degree Programme in Technology and Management) - HKUST

BEng (Hons) Degree in Civil and Environmental Engineering (FT) - HKUST

Graduates of this programme are eligible for Scheme "A" in Civil Discipline up to 2005 intake.

From 2006 intake and onwards, graduates of this programme are eligible for Scheme "A" in Civil Discipline subject to the following conditions:

The major project(s) must be a Civil Engineering related project* on structural analysis and design, foundation engineering and soil mechanics, engineering hydraulic and hydrology, water supply engineering, wastewater and waste engineering, transportation and traffic engineering, construction management and environmental sustainability.

* 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.

(y1) BEng (Hons) Degree in Civil Engineering (Law) (FT) under the double degree of BEng (Hons) Degree in Civil Engineering (Law) and Bachelor of Laws - HKU

The major project(s) must be a Civil Engineering related project* on structural analysis and design,

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foundation engineering and soil mechanics, engineering hydraulic and hydrology, water supply engineering, wastewater and waste engineering, transportation and traffic engineering, construction management and environmental sustainability.

* 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.

- (z) This programme is eligible for Structural Scheme "A" Discipline for classes up to and including the intake year 2007.

For classes from the intake year 2008 to the intake year 2010, students have to take two courses, namely, "BC2625 – Construction Materials & Structural Mechanics II" and "BC3411 – Construction Management I".

For classes from the intake year 2011 or later, students have to take any one of following courses: "BC4644 – Wind and Earthquake Engineering" or "BC4682 – Advanced Geotechnical and Foundation Engineering" or "BC4516 – Final Year Project*", which must be in structural engineering.

* 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.

- (z1) This programme is eligible for Structural Scheme "A" Discipline for classes up to and including the intake year 2007. For classes from the intake year 2008 or later, students have to take two courses, namely, "BC2625P – Construction Materials & Structural Mechanics II" and "BC3411P – Construction Management I".

- (aa1) BEng (Hons) Degree in Product Analysis and Engineering Design (Full Time and Sandwich) (offered under the BEng (Hons) Scheme in Integrated Product Development) - Poly U

Graduates of this programme would be eligible to join MNA Scheme "A" Training given that (1) the Design and Individual Projects* must have a marine structure/ vehicle design theme and (2) to top-up with at least two subject areas in Principles of Naval Architecture, Marine Control Systems, Fluid Mechanics or Thermodynamic.

* 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.

- (aa2) BEng (Hons) Degree in Product Analysis and Engineering Design (Part Time) - Poly U

Graduates of this programme would be eligible to join MNA Scheme "A" Training given that (1) the Design and Individual Projects* must have a marine structure/ vehicle design theme and (2) to top-up with at least two subject areas in Principles of Naval Architecture, Marine Control Systems, Fluid Mechanics or Thermodynamic.

* 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.

- (ab) Only graduates of BEng (Hons) Degree in Mechanical Engineering (Main Stream) (FT and SW) were approved to join MNA discipline.

- (ac) Graduates of these programmes who would like to join Fire Scheme "A", please refer to the "Admission Requirements of the Fire Discipline" on the top-up requirements to be fulfilled, which is downloadable in the membership section under "Downloads" in the HKIE website.

- (ad) BEng (Hons) Degree in Automation and Computer-Aided Engineering (FT) - CUHK

Graduates of this programme would be directly eligible to join ENS Scheme "A" training from Intake year

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2000 up to Intake year 2006.

BEng (Hons) Degree in Mechanical and Automation Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) - CUHK

Graduates of this programme would be eligible to join ENS Scheme "A" training on condition that graduates must have taken at least two elective modules that are appropriate to Electronics Discipline, they are 1) ERG2020 Digital Logic and Systems, 2) ELE3230 Microprocessors and Computer Systems, 3) ELE3240 Medical Instrumentation and Sensors.

(ae1) BEng (Hons) Degree in Automation and Computer-Aided Engineering (FT) - CUHK

Graduates of this programme would be directly eligible to join MIS Scheme "A" training from Intake year 2000 up to Intake year 2006.

BEng (Hons) Degree in Mechanical and Automation Engineering (FT) (including the programme under the Double Degree in Engineering and Business Administration) - CUHK

Graduates of this programme up to Intake year 2010 would be eligible to join MIS Scheme "A" training on condition that graduates must have taken at least 4 elective modules that are appropriate to MIS Discipline, like MAE4010, MAE5100, SEG2440, SEG3500, SEG3810 & MGT4090.

Graduates of this programme from Intake year 2011 onwards are eligible for Manufacturing, Industrial & Systems Scheme "A" on condition that graduates must have taken at least 4 elective modules that are appropriate to Manufacturing, Industrial & Systems Discipline, like MAEG4010, MAEG5100, SEEM2440, SEEM3500, SEEM3810 & MGNT4090.

(ae2) BEng (Hons) Degree in e-Logistics and Technology Management (FT) - City U

This programme is eligible for MIS Engineering Scheme "A" on condition that the graduates must have taken at least 3 elective modules that are appropriate to MIS Discipline, like MEEM3034, MEEM3042, MEEM3060, MEEM4024, MEEM4043 & MEEM4057.

(af) Graduates of this programme are eligible for MIS Scheme "A" discipline up to Intake year 2009. From intake 2010 onwards, graduates are eligible from MIS Scheme "A" discipline given that graduates specialise in the Logistics and Supply Chain Management stream of the programme.

(ag) BEng (Hons) Degree in e-Logistics and Technology Management (FT) - City U

This programme is eligible for INF Engineering Scheme "A" on condition that the graduates must have (1) taken the elective module MEEM 4057 and (2) the project* concerned should have substantial IT content.

* 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.

(ah) This programme is eligible to join CVL discipline Scheme "A" from Intake year 2011.

(ao) This programme is eligible for Scheme "A" in ENV Discipline on condition that the graduates must have taken the elective course "SEE 4217 Waste and Wastewater Treatment".

(ap) This programme is eligible for Scheme "A" in LTE Discipline on condition that the graduates must have completed "CSE 312 Transportation and Highway Engineering" and one of the following courses:- "CSE 407 Design of Transport Infrastructure" or "CSE 408 Traffic Surveys and Transport Planning".

(aq) This programme is eligible for Scheme "A" in LTE Discipline on condition that the graduates must have completed "CIVL 261 Traffic and Transportation Engineering" and one of the following courses:- "CIVL 362 Transportation System Operations"; "CIVL 561 Urban Transportation Networks Analysis"; "CIVL 562

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Travel Demand Analysis"; "CIVL 563 Traffic Control Fundamentals".

- (ar) This programme is eligible for Scheme "A" in LTE Discipline on condition that the graduates must have completed "CIVL 261 Traffic and Transportation Engineering" and one of the following courses:- "CIVL 362 Transportation System Operations"; "CIVL 561 Urban Transportation Networks Analysis"; "CIVL 562 Travel Demand Analysis"; "CIVL 563 Traffic Control Fundamentals".
- (as) This programme is eligible for Scheme "A" in LTE Discipline on condition that the graduates must have completed two of the following courses:- "CIVL 1011 Transportation Engineering"; "CIVL 3019 Traffic Engineering"; "CIVL 3020 Transportation Infrastructure Engineering".
- (aw) Eligibility for Scheme "A" in MCL discipline not include BEng (Hons) Degree in Automation and Computer-Aided Engineering.

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 (MIS) with effect from Session 2020/2021)</i>
ELL : Electrical	MNA : Marine & Naval Architecture
ENS : Electronics	STL : Structural
ENV : Environmental	
ENY : Energy	
FRE : Fire	