

BEM-GRADUATE ASSESSMENT PROGRAM (BEM-GAP)

The Board of Engineers Malaysia (BEM) has introduced a further learning programme called BEM-Graduate Assessment Program (BEM-GAP). The programme can be used as a pathway (avenue) to enable BEM non-recognised engineering degrees to meet the academic requirements for registration as Graduate Engineers (GE).

A. Registration as a Graduate Engineer

This is applicable to engineering Graduates as follows:

- a. Local 3-year Bachelor of Engineering Degree accredited by Malaysian Qualifications Agency (MQA)
- b. First Cycle (Bachelor degrees) listed in FEANI (European Engineering Education Database - EEED) database with EUR-ACE label
- c. 3-year Bachelor of Engineering accredited by Engineering Council, UK (requiring Further Learning for the purpose of CEng application)
- d. 4-year engineering degrees from non-Washington Accord (WA) signatories:

Implementation of BEM-GAP

Type of Program	Enrolment in BEM-GAP
i. Local MQA accredited 3-year BEng*	The 3-year BEng /BSc engineering graduates will be allowed to take the BEM-GAP w.e.f. January 1 st , 2023 as a pathway to enable them to register as GE. The IHLs concerned may give them up to 30% credit exemption and may select and add advanced engineering courses in their respective branches as deemed necessary.
ii. 3-year BEng accredited by Engineering Council, UK (CEng requiring Further Learning)**	
iii. FEANI (EEED) – First Cycle / Tier degrees** <i>(**Candidates in this category may still use FEANI 2nd Cycle degree for further learning purposes)</i>	
iv. 4-year Engineering degrees from non-Washington Accord (WA) signatories	Based on the subject content of the basic degree the candidates possess, they may be given up to 60% credit transfer. Subjects taken by the candidates in any related Master's program may also be considered. The IHLs concerned may add courses in the respective branches as deemed necessary

Note: Further learning via a Master's degree (Coursework/Mixed Mode), for unrecognized 3-year local engineering degrees shall cease and be replaced by BEM-GAP w.e.f. 1.1.2023.

*The 3-year local Engineering graduates who are registered in Master's program before 31st December 2022, may continue to be considered for assessment under the current practice.

**However, other graduates of unrecognized 3-year or 4-year engineering programs may do further learning via a Master's degree (Coursework/Mixed Mode), provided the academic content of their basic degree and the Master's degree satisfy the academic requirements of the particular branch.

BEM has decided to implement BEM-GAP as a pilot program at the following Universities with effect from **January 1, 2023**:

- (i) [Universiti Kebangsaan Malaysia \(Civil engineering\)](#)
- (ii) [Universiti Malaya \(Chemical engineering\)](#)
- (iii) [Universiti Tenaga Nasional \(Electrical engineering\)](#)
- (iv) [Universiti Teknologi Malaysia \(Mechanical engineering\)](#)

B. Change of Registered Branch

Registered Graduate Engineers may take subjects in the BEM-GAP, to change their branch of registration from a sub-branch to the respective main branch e.g., Manufacturing to Mechanical, Electronic to Electrical, etc.

Registered Graduate Engineers who intend to change branch based on topping-up via Master's degree must ensure that their combination of courses (Bachelor's and Master's) satisfy the breadth and depth of the BEM-GAP core courses in their respective main branch.

C. Conversion of Engineering Technologist (ET) to Graduate Engineer (GE)

The conversion of ET to GE with effect from 1.1.2023 is applicable for **registered ETs** categorised as follows:

Type of Program	Enrolment in BEM-GAP
<p>The conversion of ET to GE with effect from 1.1.2023 is applicable for registered ETs qualified a with 3-year program or a 4-year program</p>	<p><i>ET from a 3-year program:</i></p> <ul style="list-style-type: none"> a) ET's branch in Civil, Electrical, Mechanical, Chemical <ul style="list-style-type: none"> ❖ To register for the BEM-GAP in the same branch as the ET degree – credit transfer up to 30% only for non-engineering courses. b) ET's branch in Integrated <ul style="list-style-type: none"> ❖ To register for the BEM-GAP in any branch selected by the candidate – credit transfer up to 30% only for non-engineering courses.
	<p><i>ET from a 4-year program:</i></p> <ul style="list-style-type: none"> a) ET's branch in Civil, Electrical, Mechanical, Chemical <ul style="list-style-type: none"> ❖ To register for the BEM-GAP in the same branch as the ET degree – up to 50% credit transfer for engineering courses. b) ET's branch in Integrated <ul style="list-style-type: none"> ❖ To register for the BEM-GAP in any branch selected by the candidate – up to 50% credit transfer for engineering courses.

Note: Further learning via a Master's degree (Coursework/Mixed Mode), for registered ETs shall cease and be replaced by BEM-GAP w.e.f. 1.1.2023.

However, registered ETs (not in the Integrated branch) have the option to top-up their qualifications via a Master's degree. Candidates should ensure that their combination of courses (in the Bachelor's and Master's) satisfy the breadth and depth of the BEM-GAP core courses in their respective branch.

Registered ETs who are registered in a Master's program before 31st December 2022, may continue to be considered for assessment under the current practice.