



BEM eBULK REGISTRATION BY IHL IN MALAYSIA

Presented by:

Dato Prof. Ir. Othman bin A. Karim

Prof Ir. K S Kannan

Applications Committee



Outline of Presentation

Introduction

Requirements for eBulk Registration

eBulk Process

Benefits of eBulk Registration

LAWS OF MALAYSIA

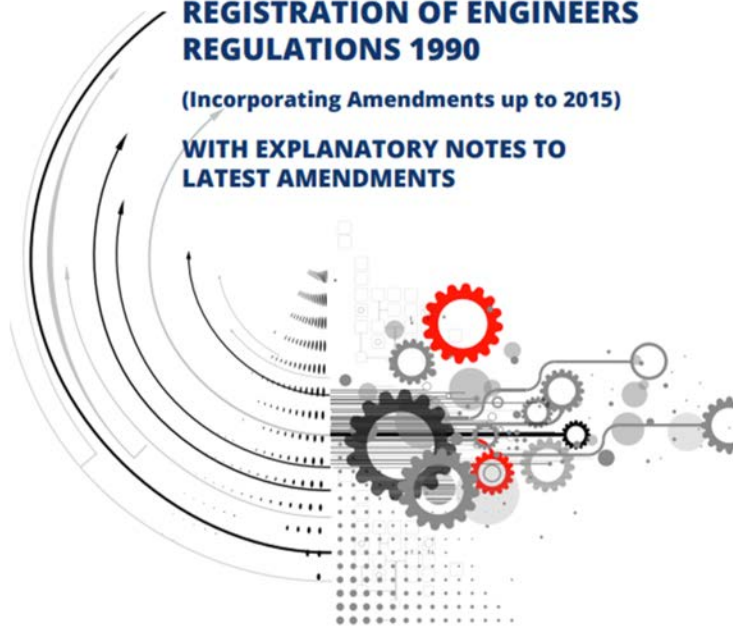
REGISTRATION OF ENGINEERS ACT 1967

AND

REGISTRATION OF ENGINEERS REGULATIONS 1990

(Incorporating Amendments up to 2015)

WITH EXPLANATORY NOTES TO
LATEST AMENDMENTS



To **protect the public** by legislative control so that the practice of engineering, which has a bearing on public safety, health and welfare, can only be carried out by licensed professional engineers.

To **create a regulatory body** with mandate to carry out licensing of professional engineers and regulation of the profession

To **set regulations** pertaining to the practice of engineering; qualifications for licensing; and code of professional conduct for registered engineers;



LAWS OF MALAYSIA

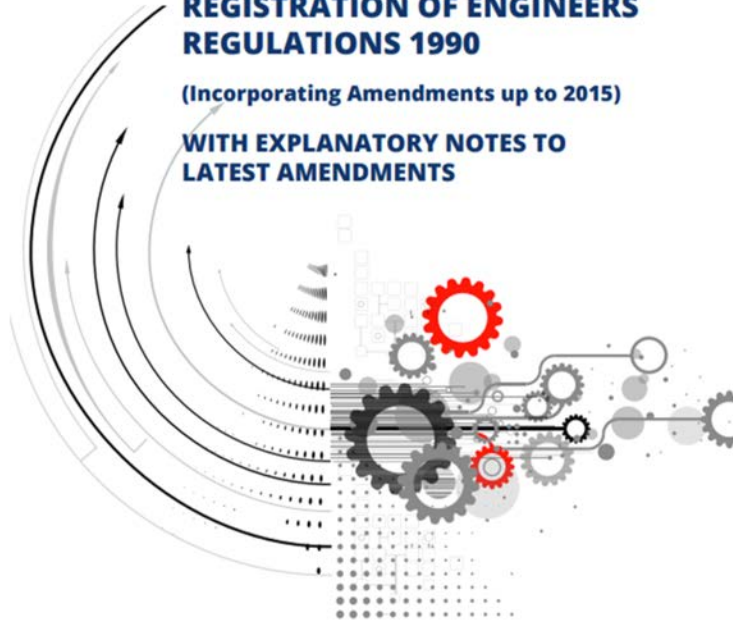
REGISTRATION OF ENGINEERS ACT 1967

AND

REGISTRATION OF ENGINEERS REGULATIONS 1990

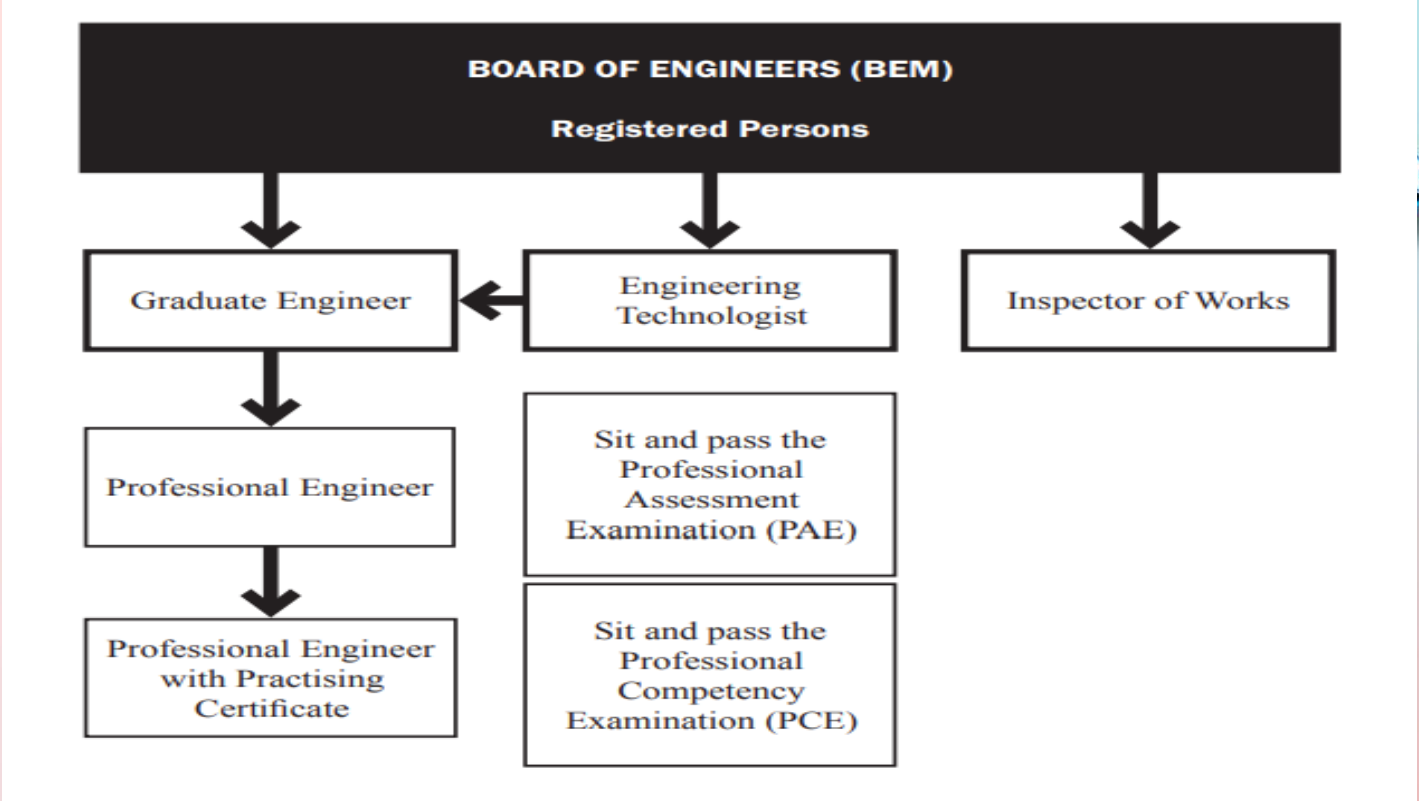
(Incorporating Amendments up to 2015)

**WITH EXPLANATORY NOTES TO
LATEST AMENDMENTS**



- 10.** (1) (a) Subject to this Act, a person who holds –
- (i) the qualifications required for Graduate Membership of the Institution of Engineers (Malaysia) and which are recognised by the Board; or
 - (ii) any qualification in engineering which is recognised by the Board,
- shall be entitled on application to be registered as a Graduate Engineer.

- 10C.** (1) A person who holds any qualification which is recognized by the Board shall be entitled on application to be registered as an Engineering Technologist.
- (2) A person who is registered as an Engineering Technologist under subsection (1) shall be entitled on application to be registered as a Graduate Engineer upon fulfilling the requirements under subsection 10(1).



It is **mandatory** for engineers to register with BEM to allow them to take up employment as either a Graduate Engineer (GE), Engineering Technologist (ET) or Inspector of Works (IOW). All of these categories of Registered Engineers are mentioned in the Act.



REGISTERED PERSON (as of 20 Oct 2022)

Graduate Engineer (GE) 174,840

- ▶ Engineering Technologist (ET) 12,821

Profesional Engineer (PE) 22,226

- ▶ Professional Engineer with Practising Certificate(PEPC) 10,670

Accredited Checker (AC) 42

- ▶ Inspector of Works (IOW) 8,532

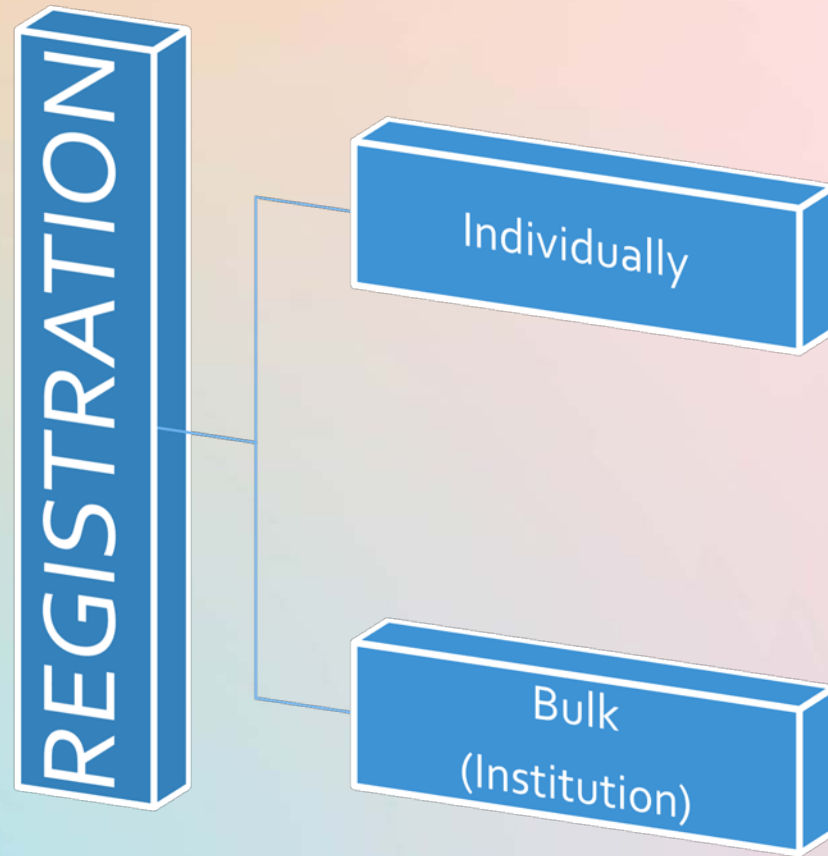
Source: BEM Report Card 2022

Page 6



BULK REGISTRATION

MODE OF REGISTRATION



- The objective of Bulk Registration is to **facilitate** the registration of new graduates from **accredited programmes** of local Institution of Higher Learning with BEM as Registered Person under the REA1967.




- This MoU applies to all new graduates from the engineering, engineering technology and technician programmes who have passed the final examination conducted by the faculty and endorsed by the Senate.



- The new graduates will be registered as Registered Persons under the REA1967 based on their qualifications which shall be from the List of Accredited Engineering Programmes issued by EAC or List of Accredited Engineering Technology Programmes or List of Accredited Engineering Technician Programmes issued by ETAC.






[Home](#) [About Us](#) [Accredited Programme](#) [Circulars & Guidelines](#) [Shared Documents](#)

Engineering Accreditation Council

The body delegated by the Board of Engineers Malaysia (BEM) for accreditation of engineering degree programmes.

Click Here



[Home](#) [About Us](#) [Accredited Programme](#) [Circulars & Guidelines](#) [Shared Documents](#)

List of Accredited Engineering Programme (Malaysia)

[HOW TO READ THE TABLES FOR THE HISTORY OF ACCREDITED PROGRAMMES](#)

The three columns shown under the column 'Accredited' are the year in which that particular programme was first accredited by Board of Engineers Malaysia

1. 2005 & Below (Intake Year) : The programme was accredited starting in year 2005 or below. Accreditation was accorded based on intake year only.
2. 2006 – 2008 (Intake Year) (Graduate Year) : The programme was accredited starting from year 2006 to 2008 . Accreditation was accorded for both intake year and graduation year.
3. *W.E.F 2009 (Graduate Year) : With effect from year 2009, the programme accreditation was accorded based on graduation year only.

Note that accreditation is given for the duration shown only.

1. [AIMST University](#)
2. [Al-Madinah International University](#)
3. [Asia Pacific University of Technology and Innovation \(APU\)](#)
4. [City University Malaysia](#)
5. [Curtin Malaysia](#)
6. [First City University College](#)
7. [Heriot-Watt University Malaysia](#)
8. [International Islamic University Malaysia \(IIUM\)](#)

IHLs THAT PRODUCED ENGINEERING GRADUATES

No.	Engineering	Engineering Technology	Diploma in Engineering/Engineering Technology
1	AIMST University	Lincoln University College (LUC)	City University
2	Al-Madinah International University	Politeknik Sultan Azlan Shah (PSAS)	Disted College
3	Asia Pacific University of Technology and Innovation (APU)	Politeknik Sultan Salahuddin Abdul Aziz Shah (PSA)	Institut Kemahiran Mara (IKM), Bintulu
4	Curtin Malaysia	Politeknik Ungku Omar (PUO)	Institut Kemahiran Mara (IKM), Johor Bahru
5	Heriot-Watt University Malaysia	Universiti Kuala Lumpur	IKM JBINTI International College, Penang (IICP)
6	International Islamic University Malaysia (IIUM)	Universiti Malaysia Perlis (UniMAP)	INTI International University (INTI IU)
7	Infrastructure University Kuala Lumpur (IUKL)	Universiti Tun Hussein Onn Malaysia (UTHM)	Kolej Kemahiran Tinggi Mara (KKTM), Kemaman
8	INTI International University		Kolej Kemahiran Tinggi Mara (KKTM), Lenggong
9	KDU College, Penang Campus		Kolej Kemahiran Tinggi Mara (KKTM), Sri Gading
10	UOW Malaysia KDU University College		Kolej Yayasan Pelajaran Johor (KYPJ)
11	Limkokwing University of Creative Technology (LUCT)		MAHSA University (MAHSA)
12	MAHSA University (MAHSA)		Manipal International University (MIU)
13	Manipal International University		Politeknik Banting Selangor (PBS)
14	Multimedia University (MMU)		Politeknik Kota Bharu (PKB)
15	Monash University in Malaysia		Politeknik Kota Kinabalu (PKK)
16	Nilai University		Politeknik Kuala Terengganu (PKT)
17	Quest International University Perak (QIUP)		Politeknik Kuching Sarawak (PKS)
18	Segi University		Politeknik Melaka (PMK)
19	Southern University College (SUC)		Politeknik Merlimau (PMM)
20	Swinburne University of Technology Sarawak		Politeknik Muadzam Shah (PMS)
21	Taylor's University		Politeknik Mukah (PMU)
22	The University of Nottingham Malaysia Campus (UNMC)		Politeknik Nilai (PNS)
23	Terengganu Advanced Technical Institute (TATI) - UTM		Politeknik Port Dickson (PPD)
24	UCSI University		Politeknik Seberang Perai (PSP)
25	University College of Technology Sarawak (UCTS)		Politeknik Sultan Abdul Halim Mu'adzam Shah (POLUMAS)
26	Universiti Teknologi MARA (UiTM)		Politeknik Sultan Azlan Shah (PSAS)
27	Universiti Kebangsaan Malaysia (UKM)		Politeknik Sultan Haji Ahmad Shah (POLISAS)
28	Universiti Kuala Lumpur		Politeknik Sultan Idris Shah (PSIS)
29	Universiti Malaya (UM)		Politeknik Sultan Mizan Zainal Abidin (PSMZA)
30	Universiti Malaysia Pahang (UMP)		Politeknik Sultan Salahuddin Abdul Aziz Shah (PSA)
31	Universiti Malaysia Sabah (UMS)		Politeknik Tuanku Sultanah Bahiyah (PTS8)
32	Universiti Malaysia Perlis (UniMAP)		Politeknik Tuanku Syed Sirajuddin (PTSS)
33	Universiti Malaysia Sarawak (UNIMAS)		Politeknik Ungku Omar (PUO)
34	Universiti Selangor (UNISEL)		Politeknik Ibrahim Sultan (PIS)
35	Universiti Tenaga Nasional (UNITEN)		Quest International University Perak (QIUP)
36	Universiti Putra Malaysia (UPM)		Universiti Kuala Lumpur
37	Universiti Pertahanan Nasional Malaysia (UPNM)		Universiti Multimedia (MMU) Melaka
38	Universiti Sains Malaysia (USM)		Universiti Teknologi Mara (UiTM)
39	Universiti Sains Islam Malaysia (USIM)		Universiti Tun Hussein Onn Malaysia (UTHM)
40	Universiti Tunku Abdul Rahman (UTAR)		
41	Universiti Teknikal Malaysia Melaka (UTeM)		
42	Universiti Tun Hussein Onn Malaysia (UTHM)		
43	Universiti Teknologi Malaysia (UTM)		
44	Universiti Teknologi Petronas (UTP)		
45	Xiamen University Malaysia (XMUM)		

**Nota
Warna merah = dah sign MoU dgn BEM
Warna hitam = belum sign MoU dgn BEM
Warna hijau = dah invite untuk sign MoU



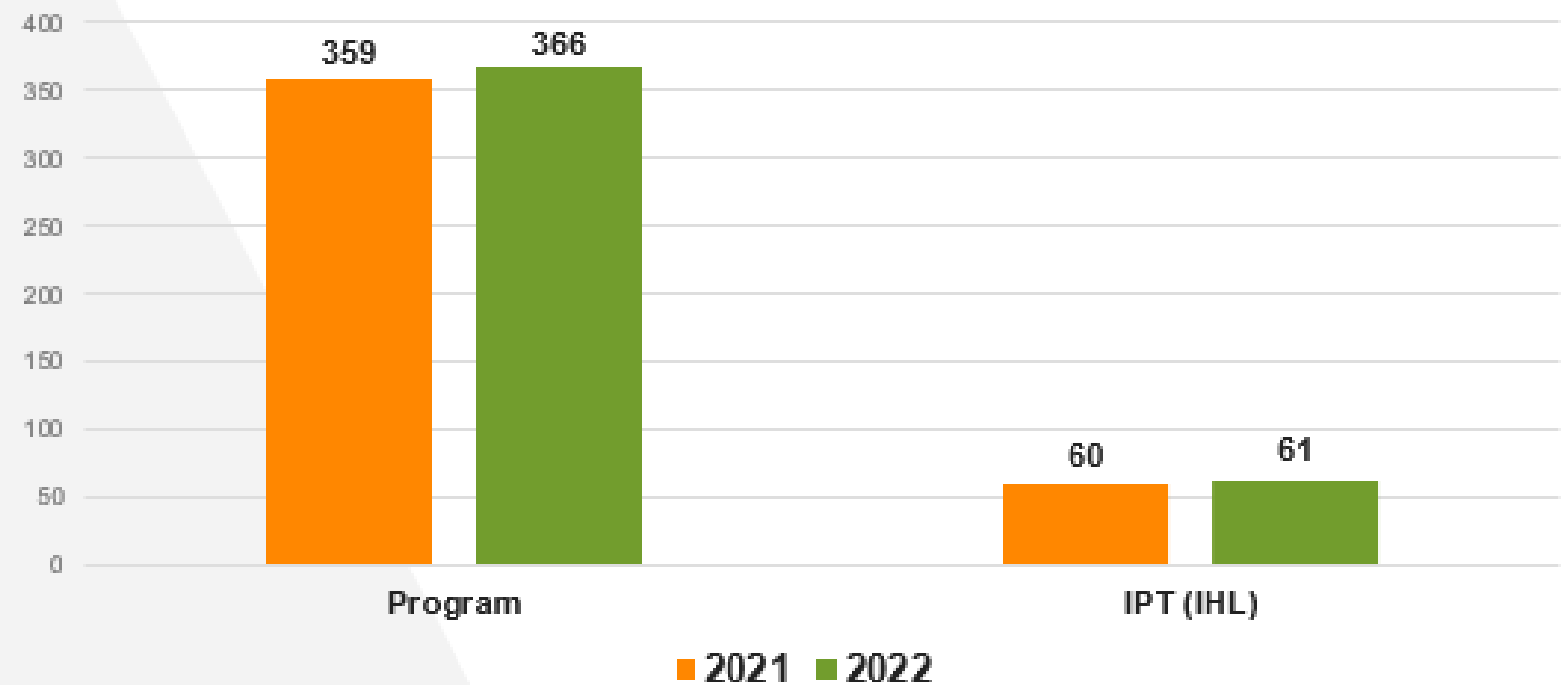
ACCREDITED ENGINEERING PROGRAMMES (IHLs)





ACCREDITED ENGINEERING PROGRAMMES (IHLs)

Akreditasi Program Kejuruteraan Tahun 2021 & 2022





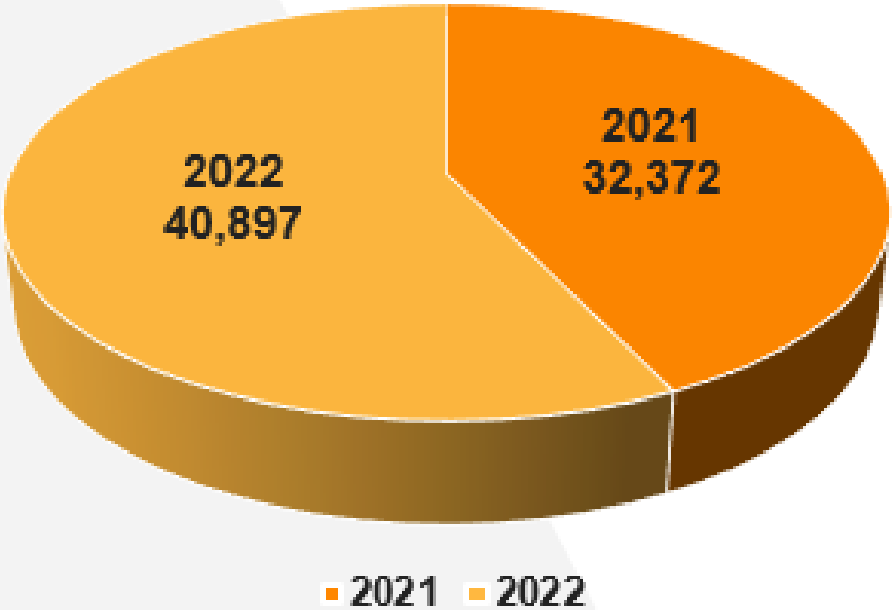
SUMMARY BULK REGISTRATION BY YEAR

	2017	2018	2019	2020
GE	3751	6281	8022	5075
ET	114	1507	1808	485
Total	3865	7788	9830	5560

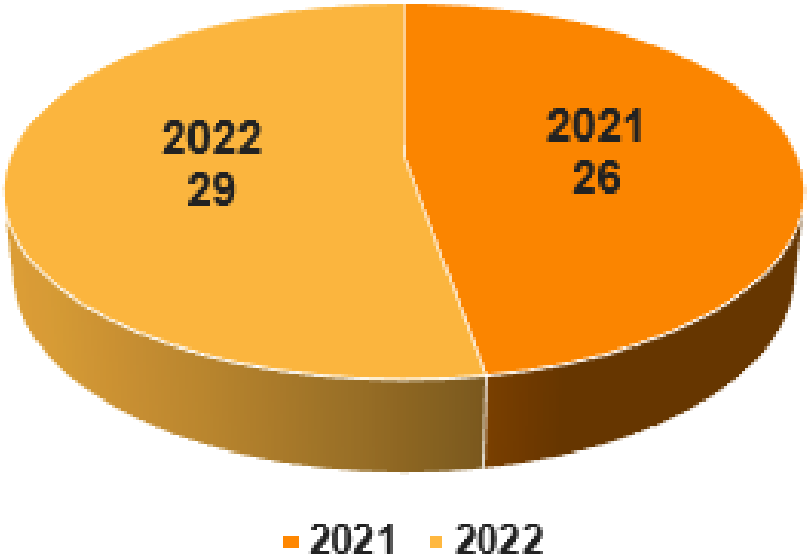


REGISTRATION via eBULK (upto 20.10.2022) cumulative

Jumlah Pendaftaran Mengikut Tahun



Jumlah IPT yang Menandatangani MoU





34

IHLs THAT HAVE SIGNED MoU ON eBULK REGISTRATION



26 IHLS



REQUIREMENTS FOR eBULK REGISTRATION

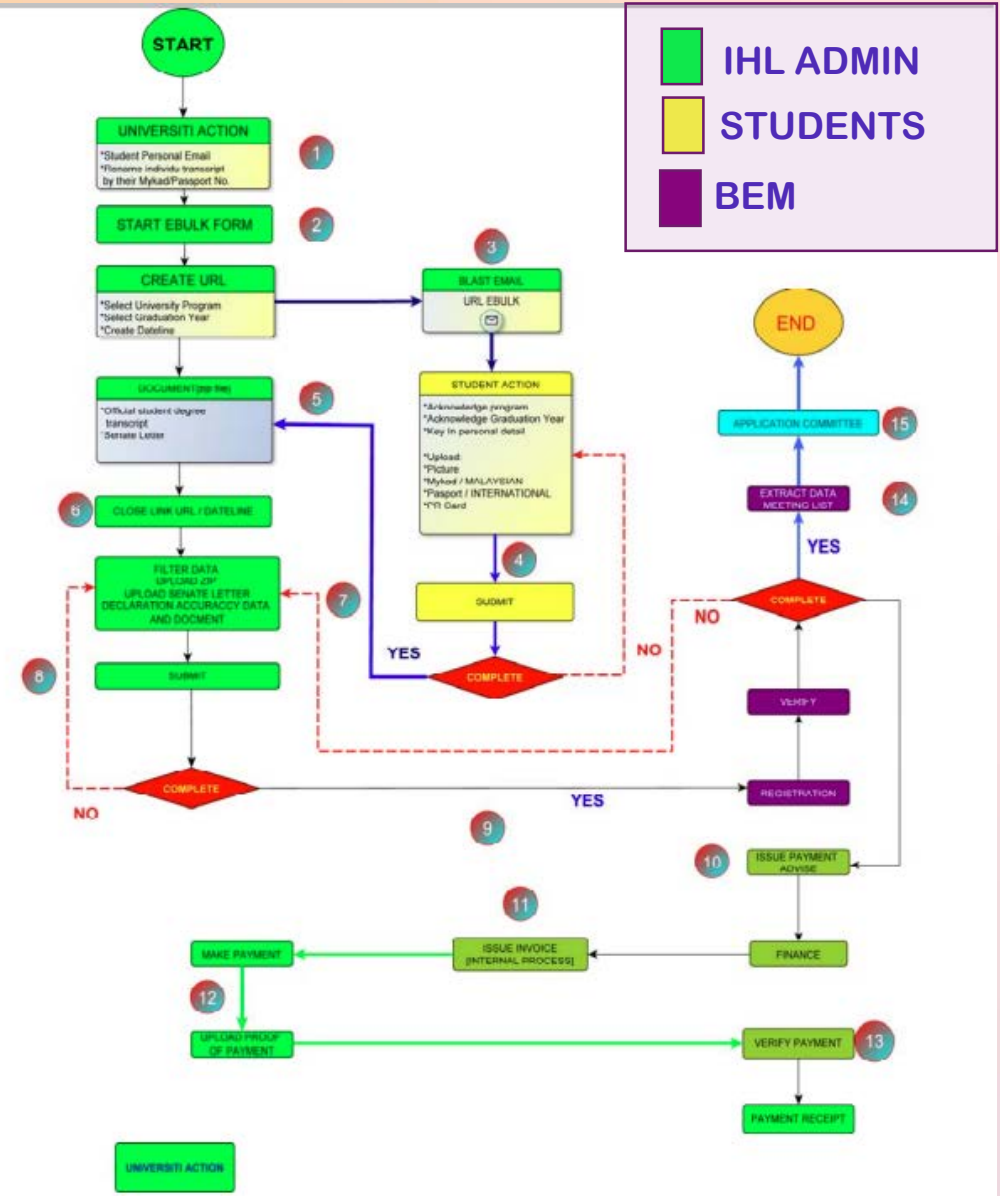
For the purpose of the registration, the IHL shall provide the following documents of each new graduates as follows:

- 'Form A' of each new graduate
- a senate's list of approved graduates,
- a copy identity card;
- a copy of full official transcript; and
- a bulk payment via a bank draft or a cheque or electronic fund transfer for all graduates fee as prescribed in Schedule II of RER1990.



PROCESS/FLOWCHART

eBULK REGISTRATION



ACTION 1

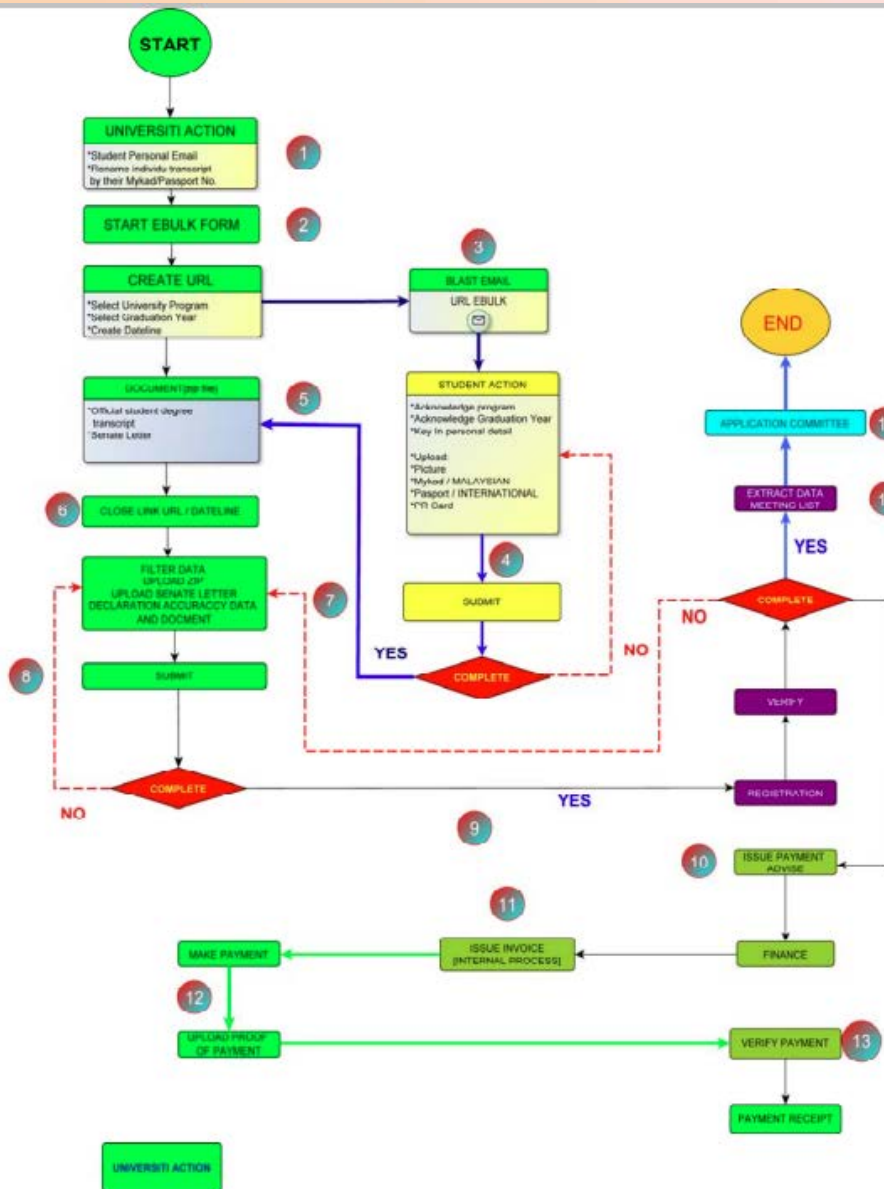
- Admin University gathers student information [Name / Email] by the Engineering degree program.

ACTION 2

- Admin University selects the program detail and timeline to collect the student data information.
- The system will create the URL link with related information and a Form for students to fill in and upload.
- Admin email the URL to a respected student.

ACTION 3

- Student action.
- Acknowledge the program data
- Fill in personal data information
- Upload passport picture size
- Upload National ID / *Passport / *PR card (if applicable)
- Make the Submission [submit button]



ACTION 4

- If the data and documents are not complete or attach as required, the system will not allow a student to click the submit button. An auto-reminder or popups notification will notify the student.
- If data and documents complete, the student will receive the notification of acknowledgment and payment information from the autoresponder.

ACTION 5

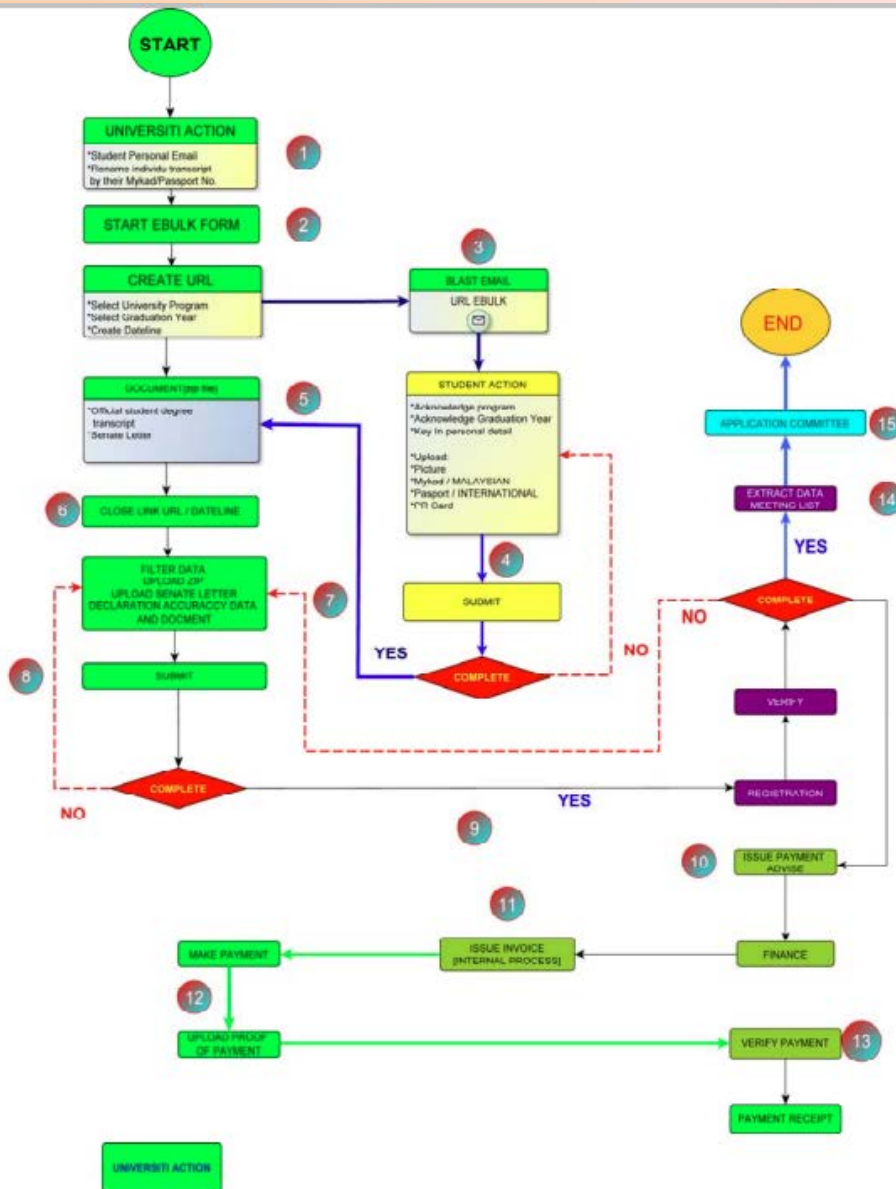
- Admin University will monitor and filter the data from the system
- Prepare the senate letter
- Gather the student transcript, rename by national id or passport
- Zip the student document

ACTION 6

- URL link expired or closed manually by admin University.

ACTION 7

- Admin University filter the data and document.
- Upload the zip file
- Upload the senate letter from the university

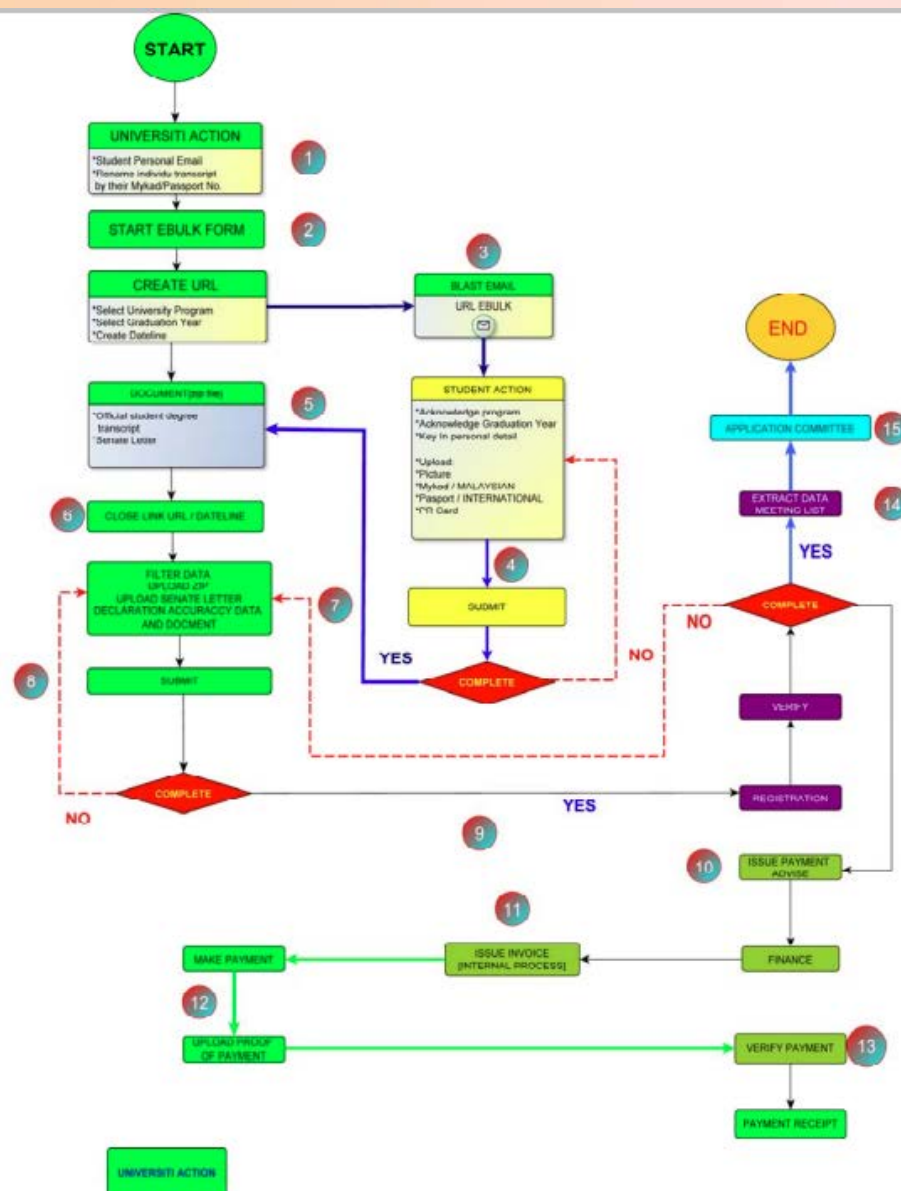


ACTION 8

- If the data and documents are not complete or attach as required, the system will not allow an admin university to click the submit button. An auto-reminder or popups notification will notify the admin on the issue and need attention.
- Admin is allowed to select, edit, add, remove the data and document
- If data and documents complete, the system will be allowed to admin university to submit.

ACTION 9

- Registration Ebulk Admin will receive the notification by Email.
 - The Ebulk System automated synchronize the data and trace for individual registration is done outside from the ebulk system and implement the override rules are applied.
- "Ebulk system will override the existing data to those who did not upload the document and didn't make the payment fees and the user is not allowed to make any amend data and document after this process "
- "Ebulk system will remove the data and document from the ebulk batch if the same person already makes the payment upon his application."
- Registration Ebulk admin will check those batch data and documents are accurate and follow as the registration requirement.



ACTION 10

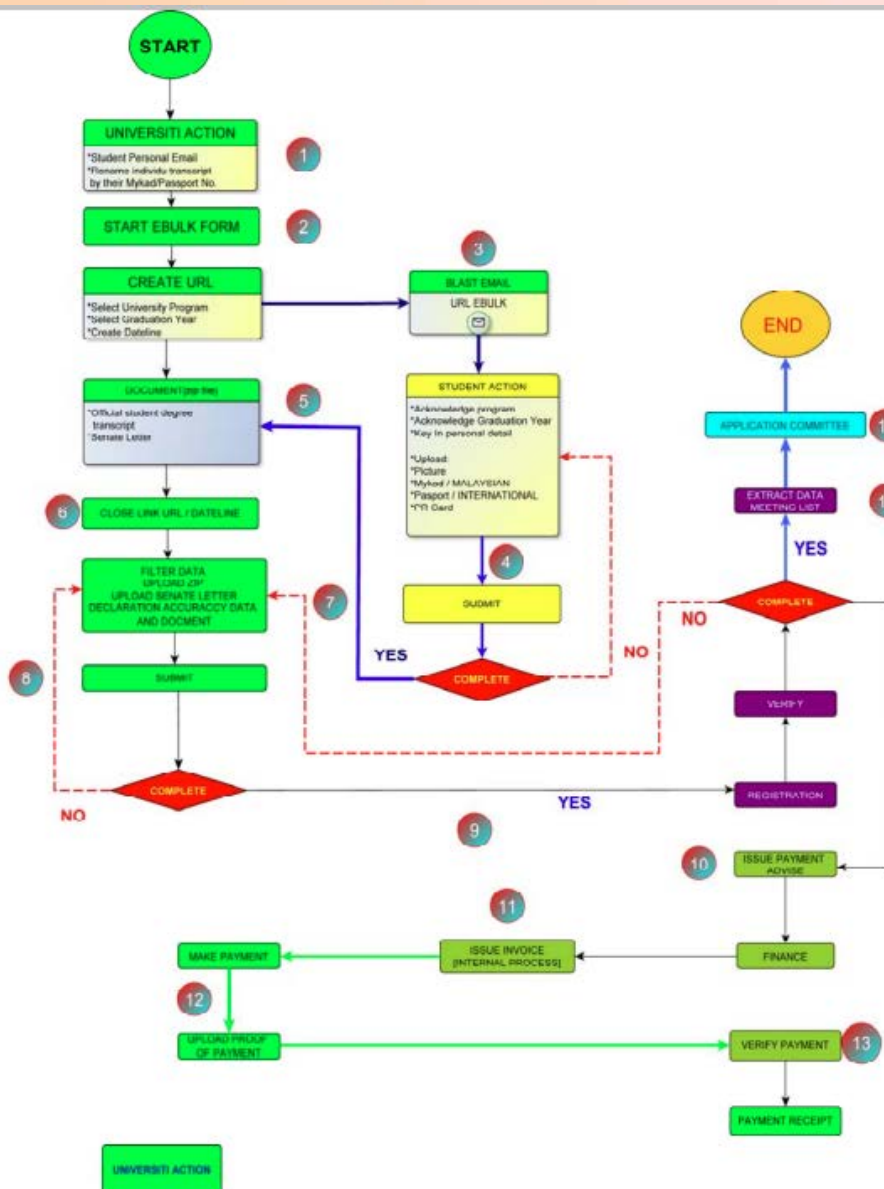
- Registration admin will create Payment advice.

ACTION 11

- Notification to finance unit for creation of Invoice based on Payment advice by the system using auto generated numbering.

ACTION 12

- Payment received by admin University via EFT (Offline) - Invoice by the system.
- Admin university to upload the proof of the payment slip/receipt of the required ebullk batches.



ACTION 13

- Finance Unit to verify amount based on daily bank reconciliation data to match ebulk data figures.
- Subsequently, Admin University shall submit/update generation receipt options manually to ensure posting of the amount in ebulk.
- Auto-generated receipt and will be sent as auto-notification to respecting student state their application is under process accordingly.

ACTION 14

- Registration Ebulk Admin will check the data and documentation are in order and verify
- Registration Ebulk Admin will extract data in excel table format
- Create the date of the meeting.

ACTION 15

- Table the list of ebulk student to the applications committee for the meeting and approval

ACTION 16

- Approve
- Registration Ebulk Admin will select the batch and fill in the approval date.
- Submit button for approval
- The applicant will receive the notification by email and the electronics certificate will create automatically user registration interface functions.
- End process.



1. To facilitate the registration of the fresh engineering graduates from the accredited programs
2. Enabling the registered engineers to start providing engineering services without having to wait for the university scroll
3. Recognising the existing friendly relations between the Board of Engineers Malaysia and the IHL
4. The IHL will receive a total sum of RM 10,000 from BEM to award their best engineering student for 5 years.



MbUSIGNING AND MOCK CHEQUE PRESENTATION
25 OCT 2022





THANK YOU



Committed to Engineering Excellence

BOARD OF ENGINEERS MALAYSIA

Tingkat 17, Blok F, Ibu Pejabat JKR
Jalan Sultan Salahuddin, 50580 Kuala Lumpur

<http://www.bem.org.my>

bemconvention2022@bem.org.my or event@bem.org.my

Tel: 03-26912090