



Lembaga Jurutera Malaysia
Board of Engineers Malaysia



2024

LAPORAN TAHUNAN **ANNUAL REPORT**

KANDUNGAN

Contents

5 PERUTUSAN YANG DIPERTUA

President's Message

9 MAKLUMAT KORPORAT

Corporate Information

19 TADBIR URUS KORPORAT

Corporate Information

33

PELAN STRATEGIK LJM 2021-2025
BEM Strategic Plan 2021-2025

73

PENCAPAIAN 2024
BEM Strategic Plan 2021-2025

92

PERISTIWA PENTING 2024
Highlights of 2024

121

PENYATA KEWANGAN 2024
Financial Statement 2024



LEMBAGA PENGARANG *Editorial Board*

Pengerusi *Chairman*

Ir. Dr. Zuhairi bin Abd Hamid

Ahli *Members*

Dato' Ir. Fong Tian Yong
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Ir. Prem Kumar Vasudevan
Ir. Hizamul-din bin Ab Rahman
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Ir. Hamzah bin Hashim

Pengarah Eksekutif *Executive Director*

Ir. Mohd Noramil bin Mohd Daril

LAPORAN TAHUNAN 2024
ANNUAL REPORT

PERUTUSAN YANG DIPERTUA 2024
PRESIDENT'S MESSAGE 2024



PERUTUSAN YANG DIPERTUA 2024

PRESIDENT'S MESSAGE 2024

Pendaftaran menjadi fungsi utama Lembaga Jurutera Malaysia (LJM) dengan statistik pendaftaran pada akhir tahun 2024 (dengan nombor masing-masing pada akhir tahun 2023 dalam kurungan) adalah:- Jurutera Profesional dengan Perakuan Amalan sebanyak 10,855 (10,788); Jurutera Profesional sebanyak 24,904 (23,595); Jurutera Siswazah sebanyak 211,756 (195,521); Teknologis Kejuruteraan sebanyak 16,715 (15,269); dan Pemeriksa Tapak sebanyak 10,829 (9,782).

LJM secara berterusan meneliti Peperiksaan Profesionalnya iaitu Peperiksaan Penilaian Profesional (PAE) dan Peperiksaan Kompetensi Profesional (PCE) agar selaras dengan standard antarabangsa. LJM telah melaksanakan Peperiksaan Penilaian Profesional berasaskan Hasil Pembelajaran (Outcome-based Professional Assessment Examination), manakala PCE sedang dikaji semula bagi menilai keberkesannya serta memasukkan cabang-cabang kejuruteraan tambahan. Pada Disember 2024, seramai 506 calon telah mengambil PCE. Keputusan akan diketahui pada awal tahun 2025. Bagi PAE, seramai 834 calon telah menjalani peperiksaan tersebut.

Dalam proses memastikan profesionalisme Jurutera Profesional dalam memberikan perkhidmatan yang memuaskan kepada industri, LJM amat serius dan telah mengambil tindakan wajar apabila diperlukan. Mengenai aduan yang diterima, terdapat 43 kes baru pada tahun 2024 di mana 17 daripadanya mempunyai prima facie, 19 tiada prima facie manakala tujuh (7) lagi masih dalam proses siasatan. Daripada 15 kes, enam (6) kes disyorkan untuk perbicaraan dan empat (4) kes masih dalam siasatan.

Registration being the main function of the Board of Engineers Malaysia (BEM), the registration statistics at the end of year 2024 (with the respective numbers at end of 2023 in brackets) is:- Professional Engineers with Practising Certificate 10,855 (10,788); Professional Engineers 24,904 (23,595); Graduate Engineers 211,756 (195,521); Engineering Technologists 16,715 (15,269); and Inspector of Works 10,829 (9,782).

BEM is continuously reviewing its Professional Examinations i.e. the Professional Assessment Examination (PAE) and the Professional Competency Examinations (PCE) to be in line with international standards. BEM had been implementing the Outcome-based Professional Assessment Examination while the PCE was being reviewed for its effectiveness and inclusion of additional engineering branches. In December 2024, a total of 506 candidates took the PCE. Results will be known in early 2025. For the PAE, a total of 834 candidates undertook the examination.

In the process of ensuring the professionalism of Professional Engineers in delivering the satisfactory services to the industries, BEM has been stringent and has acted when required. On the complaints received in 2024, there were 43 new cases out of which 17 had prima facie, 19 without prima facie and seven (7) under process. Out of 15 cases, six (6) cases were recommended for hearing and four (4) were still under investigation.

Sehingga tahun berakhir 2024, sebanyak enam (6) kes disarankan untuk perbicaraan oleh Jawatankuasa Penyiasatan. 10 telah didapati bersalah oleh Jawatankuasa Disiplin.

Majlis Akreditasi Kejuruteraan (EAC) terus memantau dan memperakui ijazah kejuruteraan yang dianugerahkan oleh universiti tempatan bagi mematuhi keperluan Washington Accord. Pada tahun 2024, EAC mengiktiraf 251 program ijazah kejuruteraan di 51 institusi pengajian tinggi (IHL). Di samping itu Majlis Akreditasi Teknologi Kejuruteraan (ETAC) mengiktiraf 41 program teknologi kejuruteraan dan 126 program diploma di 55 IHL pada tahun 2024, untuk memenuhi syarat-syarat Sydney Accord dan Dublin Accord.

Di peringkat antarabangsa, Malaysia melalui LJM telah menyertai Mesyuarat Perikatan Kejuruteraan Antarabangsa (IEA) yang diadakan secara fizikal di Haryana, India, bermula daripada 9 hingga 14 Jun 2024. Malaysia telah menghantar six (6) orang wakil bagi menghadiri mesyuarat tersebut. Sebagai anggota penuh penandatanganan, Malaysia telah menyertai Mesyuarat Permuafakatan Washington, Permuafakatan Sydney dan Permuafakatan Dublin.

Di peringkat ASEAN pula, LJM sebagai wakil Malaysia telah menghadiri tiga (3) Mesyuarat Jawatankuasa Penyelarasan Jurutera Profesional Bertauliah ASEAN mengenai Perkhidmatan (ke-106, 107 dan 108) dan Mesyuarat Business Services Sectoral Working Group (BSSWG) yang dijalankan secara fizikal pada 26 Februari – 1 Mac 2024 di Bandung, Indonesia, 4 – 7 Jun 2024 di Siem Reap, Cambodia dan 21 – 25 Oktober 2024 di Jakarta, Indonesia.

Konvensyen LJM 2024 telah diadakan pada 1 – 4 Oktober 2024 bertemakan “Empowering Engineering”. Konvensyen empat (4) hari ini diadakan secara fizikal di Menara Felda, Platinum Park, Kuala Lumpur dan Hotel Seri Pasifik, Kuala Lumpur. Pelbagai program telah dirancang dan dianjurkan untuk Orang berdaftar BEM dan pihak berkepentingan seperti ceramah, sesi perkongsian, forum dan bengkel.

Until the end of 2024, a total of six (6) cases were recommended by the Investigation Committee for hearing. 10 were found guilty by the Disciplinary Committee.

The Engineering Accreditation Council (EAC) continues to monitor and accredit engineering degrees awarded by local universities to conform with the requirements of the Washington Accord. In 2024 the EAC accredited 251 engineering degree programs in 51 institutions of higher learning (IHLs). In addition, the Engineering Technology Accreditation Council (ETAC) accredited 41 engineering technology programs and 126 diploma programs in 55 IHLs in 2024, to conform with the requirements of the Sydney Accord and the Dublin Accord respectively.

At the international front, Malaysia through BEM has participated in the International Engineering Alliance (IEA) which was held physically from 9 until 14 June 2024 in Haryana, India. Malaysia sent six (6) representatives to the meeting. As full signatory, Malaysia has participated in Washington Accord, Sydney Accord and Dublin Accord Meetings.

At the ASEAN level, BEM as Malaysian representatives had attended three (3) ASEAN Chartered Professional Engineer Coordinating Committee on Services Meetings (103rd, 104th and 105th) and Business Services Sectoral Working Group (BSSWG) Meetings which were conducted physically on 26 February – 1 March 2024 in Bandung, Indonesia, 4 – 7 June 2024 in Siem Reap, Cambodia and 21 – 25 October 2024 in Jakarta, Indonesia.

The BEM Convention 2024 was held on 1-4 October 2024 with theme “Empowering Engineering”. The four (4) days convention was conducted fully physical at the Felda Tower, Platinum Park, Kuala Lumpur and Seri Pacific Hotel, Kuala Lumpur. Various programs were planned and organized for BEM registered Persons and stakeholders such as talks, sharing sessions, forum and workshops.

LJM berbesar hati menjadi Rakan Strategik Hari Profesion Teknikal Negara (HPTN) 2024 yang bertemakan “Profesion Teknikal Peneraju Kecemerlangan Teknologi” anjuran Kementerian Kerja Raya pada 11–12 Disember 2024 di Konvensyen Picca, Butterworth, Pulau Pinang. LJM berjaya menganjurkan sebuah Sesi Bual Bicara (Mini Poket HPTN) yang melibatkan lebih 100 mahasiswa institusi pengajian tinggi di utara Semenanjung Malaysia. YBhg. Dato’ Paduka Ir. Keizrul bin Abdullah, Tokoh Kejuruteraan Negara 2024 telah dinobatkan sebagai Tokoh Profesion Teknikal HPTN (Kejuruteraan) yang telah disampaikan oleh YB Dato Sri Alexander Nanta Linggi, Menteri Kerja Raya Malaysia pada Majlis Perasmian HPTN 2024

Sebagai badan pengawalseliaan, LJM akan terus waspada dalam proses pendaftaran dan tingkah laku Orang Berdaftarnya yang memberikan perkhidmatan mereka kepada industri dan pelanggan dengan mempertimbangkan keselamatan dan kualiti. LJM juga akan proaktif untuk menjangkau pihak berkepentingan serta akan turut serta dalam aktiviti badan-badan profesional yang berkaitan.

BEM is pleased to be the Strategic Partner of the National Technical Profession Day (HPTN) 2024 with the theme “Profesion Teknikal Peneraju Kecemerlangan Teknologi” organized by the Ministry of Works on 11 - 12 December 2024 at Picca Convention Centre, Butterworth, Pulau Pinang. BEM successfully organised a Mini Pocket Engineering Talk involving more than 100 students from institutions of higher learning in the northern region of Peninsular Malaysia. YBhg. Dato’ Paduka Ir. Keizrul bin Abdullah, the National Engineering Icon 2024, was conferred the title HPTN Technical Profession Icon (Engineering), presented by YB Dato Sri Alexander Nanta Linggi, Minister of Works Malaysia, during the Opening Ceremony of HPTN 2024.

As a regulatory body, BEM will continue to be vigilant in its registration process and on the conduct of its registered persons delivering their services to the industry and clients with safety and quality in mind. BEM will also be proactive in reaching out to its stakeholders and participate in activities of related professional bodies.

Datuk Ir. Ahmad Redza bin Ghulam Rasool
Yang Dipertua
President

LAPORAN TAHUNAN 2024

ANNUAL REPORT



MAKLUMAT KORPORAT

CORPORATE INFORMATION

MAKLUMAT KORPORAT

CORPORATE INFORMATION

LEMBAGA JURUTERA MALAYSIA

Lembaga Jurutera Malaysia (LJM) adalah sebuah badan berkanun persekutuan di bawah Kementerian Kerja Raya Malaysia yang ditubuhkan mengikut Undang-undang Malaysia, Akta Pendaftaran Jurutera 1967 (Akta 138). Peranan utama LJM adalah mendaftar Jurutera, Pemeriksa Bertauliah, Teknologis Kejuruteraan, Pemeriksa Tapak dan syarikat Amalan Perunding Kejuruteraan seperti pemilik tunggal, perkongsian dan badan korporat yang menyediakan perkhidmatan kejuruteraan profesional. LJM juga mengawal selia tata kelakuan profesional dan amalan Orang Berdaftar bagi melindungi kepentingan orang ramai.

VISI

Sebuah badan berkuasa yang berwibawa antarabangsa yang mengawal selia amalan kejuruteraan.

MISI

Mengawal selia perkhidmatan kejuruteraan, mematuhi etika profesional dan amalan terbaik antarabangsa, dalam memastikan keselamatan awam.

POLISI KUALITI

Lembaga komited untuk memberikan perkhidmatan terbaik kepada pihak yang berkepentingan dalam mematuhi keperluan berkanun dan pengawal seliaan dan berterusan memperbaiki sistemnya.

PIAGAM PELANGGAN

- Semua pendaftaran peringkat kemasukan dalam tempoh 6 minggu.
- Pembaharuan pendaftaran untuk -
 - Orang berdaftar dalam masa 24 jam.
 - Amalan Perunding Kejuruteraan dalam masa 2 minggu.
- Aduan melalui Sistem Pengurusan Khidmat Pelanggan akan dimaklumkan terima dalam masa 24 jam.

BOARD OF ENGINEERS MALAYSIA

The Board of Engineers Malaysia (BEM) is a federal statutory agency under the Ministry of Works Malaysia. It was established under the laws of Malaysia, the Registration of Engineers Act 1967 (Act 138), with primary role to register Engineers, Engineering Technologists and Inspectors of Works. BEM also registers Engineering Consultancy Practices in the form of sole proprietorships, partnerships and body corporates providing professional engineering services. BEM also regulates the professional conduct and practice of registered person in order to safeguard the interest of the public.

VISION

An authoritative body of international standing that regulates engineering practice.

MISSION

Regulate engineering services, conforming to professional ethics and international best practices, in ensuring public safety.

QUALITY POLICY

The Board is committed to providing excellent services to interested parties in compliance to statutory and regulatory requirements and continually improves its system.

CLIENT CHARTER

- All entry level registration within 6 weeks.
- Renewal of registration for -
 - Registered Person within 24 hours.
 - Engineering Consultancy Practice within 2 weeks.
- Complaints through Customer Service Management System will be acknowledged within 24 hours.

FUNGSI

Selaras dengan Akta Pendaftaran Jurutera 1967 (Pindaan 2015), fungsi LJM adalah:

- (a) untuk menyimpan dan menyenggarakan Daftar;
- (b) untuk meluluskan atau menolak permohonan untuk pendaftaran di bawah Akta ini atau untuk meluluskan apa-apa permohonan tertakluk kepada apa-apa syarat atau sekatan yang difikirkan patut dikenakan;
- (c) untuk memerintahkan pengeluaran amaran bertulis atau teguran, pengenaan denda, penggantungan, pembatalan, penghapusan atau pengembalian semula mengikut Bahagian III dan IV;
- (d) untuk menetapkan dari semasa ke semasa dengan kelulusan Menteri, skala fi yang akan dikenakan oleh Jurutera dan syarikat Amalan Perunding Kejuruteraan berdaftar untuk perkhidmatan kejuruteraan profesional yang diberikan;
- (e) untuk mendengar dan memutuskan pertikaian yang berkaitan dengan tingkah laku atau etika profesional Orang Berdaftar atau melantik suatu jawatankuasa atau penimbang tara atau penimbang tara – penimbang tara untuk mendengar dan menentukan pertikaian itu;
- (f) untuk bertindak sebagai pihak berkepentingan dalam suatu kontrak bagi perkhidmatan kejuruteraan profesional, apabila diminta;
- (g) untuk mengambil bekerja mana-mana orang, sebagaimana difikirkan perlu, untuk membantu Lembaga menjalankan fungsi, kuasa dan kewajipan tertakluk kepada apa-apa terma dan syarat sebagaimana yang ditentukan;
- (h) menyediakan kemudahan untuk menggalakkan pembelajaran dan pendidikan dan untuk mengadakan atau menyebabkan supaya diadakan program pembangunan profesional, termasuk Program Pembangunan Profesional untuk Orang berdaftar bagi meningkatkan pengetahuan mereka dalam perkembangan terkini berkaitan dengan profesion;

FUNCTIONS

In accordance to the Registration of Engineers Act 1967 (Revised 2015), the functions of the Board shall be:

- (a) to keep and maintain the Register;
- (b) to approve or reject applications for registration under this Act or to approve any such application subject to such conditions or restrictions as it may deem fit to impose;
- (c) to order the issuance of a written warning or reprimand, the imposition of a fine, suspension, cancellation, removal or reinstatement in accordance with Parts III and IV;
- (d) to fix from time to time with the approval of the Minister the scale of fees to be charged by registered Engineers and Engineering consultancy practices for professional engineering services rendered;
- (e) to hear and determine disputes relating to professional conduct or ethics of registered Persons or to appoint a committee or arbitrator or arbitrators to hear and determine such disputes;
- (f) to act as a stakeholder in a contract for professional engineering services, when requested;
- (g) to employ any person, as it deems necessary, to assist the Board in carrying out its functions, powers and duties subject to such terms and conditions as it may determine;
- (h) to provide facilities for the promotion of learning and education and to hold or cause to be held professional development programmes, including continuing professional development programmes, for registered Persons to further enhance their knowledge in the latest developments relating to that profession;

- | | |
|--|--|
| <p>(i) untuk melantik suatu jawatankuasa yang terdiri daripada orang yang akan ditentukan oleh Lembaga –</p> <p>(i) untuk menjalankan peperiksaan penilaian profesional untuk tujuan kemasukan sebagai Jurutera Profesional; atau</p> <p>(ii) untuk menjalankan peperiksaan kompetensi profesional untuk tujuan mengeluarkan Perakuan Amalan kepada Jurutera Profesional;</p> <p>(j) untuk melantik mana-mana orang untuk mewakili Lembaga dalam mana-mana jawatankuasa, panel atau institusi, di mana orang tersebut kemudiannya akan membuat cadangan kepada Lembaga mengenai semua perkara mengenai kelayakan untuk kemasukan ke profesion;</p> <p>(k) untuk melantik sebuah badan yang terdiri daripada ahli-ahli Lembaga, Jurutera Profesional dan orang lain sebagaimana yang ditentukan oleh Lembaga untuk menasihati Kerajaan dan orang awam mengenai perkara-perkara yang berhubungan dengan pendidikan kejuruteraan, termasuk pensijilan program tersebut;</p> <p>(l) untuk menyebabkan peperiksaan dijalankan oleh sesebuah institusi yang diiktiraf oleh Lembaga bagi maksud kemasukan ke dalam profesion;</p> <p>(m) untuk menentukan dan mengawal kelakuan dan etika profesion kejuruteraan; dan</p> <p>(n) Secara amnya, untuk melakukan segala tindakan, perkara dan benda yang perlu bagi melaksanakan peruntukan Akta ini.</p> | <p>(i) to appoint a committee consisting of persons to be determined by the Board –</p> <p>(i) to conduct professional assessment examinations for the purpose of admission as a Professional Engineer; or</p> <p>(ii) to conduct professional competency examinations for the purpose of issuing a Practising Certificate to the Professional Engineer;</p> <p>(j) to appoint any person to represent the Board in any committee, panel or institution, where that person would subsequently make recommendations to the Board on all matters regarding the qualifying for admission to the profession;</p> <p>(k) to appoint a body consisting of members from the Board, Professional Engineers and other persons as may be determined by the Board to advise the Government and the public on matters relating to engineering education, including the certification of such programmes;</p> <p>(l) to cause examinations to be conducted by an institution recognized by the Board for the purpose of admission to the profession;</p> <p>(m) to determine and regulate the conduct and ethics of the engineering profession; and</p> <p>(n) Generally, to do all such acts, matters and things as are necessary to carry out the provisions of this Act.</p> |
|--|--|

AHLI LEMBAGA

Lembaga hendaklah terdiri daripada ahli berikut yang mestilah warganegara Malaysia dan yang dilantik oleh Menteri:

- (a) seorang Presiden yang mestilah merupakan seorang Jurutera Profesional atau Jurutera Profesional dengan Perakuan Amalan;
- (b) tidak lebih daripada empat belas orang Ahli yang hendaklah merupakan Jurutera Profesional dan Jurutera Profesional dengan Perakuan Amalan, lima daripada mereka hendaklah daripada senarai pencalonan dikemukakan oleh Majlis Institusi Jurutera (Malaysia);
- (c) seorang Ahli yang dinamakan oleh Lembaga Arkitek daripada kalangan Ahli Lembaga itu yang ditubuhkan di bawah Akta Arkitek 1967; dan
- (d) seorang Ahli yang dinamakan oleh Lembaga Juruukur Bahan dari kalangan Ahli Lembaga yang ditubuhkan di bawah Akta Juruukur Bahan 1967.

Dan yang hendaklah terdiri daripada berikut:

- (i) tiga orang Jurutera Profesional dan dua Jurutera Profesional dengan Perakuan Amalan di dalam perkhidmatan awam Persekutuan;
- (ii) tidak lebih daripada dua orang Jurutera Profesional di dalam perkhidmatan pihak berkuasa tempatan atau pihak berkuasa berkanun;
- (iii) tidak lebih daripada lima orang Jurutera Profesional dengan Perakuan Amalan yang merupakan kakitangan, pemilik tunggal, rakan kongsi atau pengarah syarikat amalan perunding kejuruteraan; dan
- (iv) Jurutera Profesional dan Jurutera Profesional dengan Perakuan Amalan yang merupakan kakitangan mana-mana orang atau kumpulan orang, yang bukan dalam perkhidmatan awam Persekutuan atau dalam perkhidmatan mana-mana pihak berkuasa tempatan atau pihak berkuasa berkanun.

BOARD MEMBERS

The Board shall consist of the following members who shall be Malaysian citizens and who are appointed by the Minister:

- (a) a President who shall be a Professional Engineer or a Professional Engineer with Practising Certificate;
- (b) not more than fourteen members who shall be Professional Engineers and Professional Engineers with Practising Certificates, five of whom shall be from a nomination list submitted by the Council of the Institution of Engineers (Malaysia);
- (c) one member on the nomination of the Board of Architects from among members of that Board established under the Architects Act 1967; and
- (d) one member on the nomination of the Board of Quantity Surveyors from among members of that Board established under the Quantity Surveyors Act 1967.

And who shall consist of the following:

- (i) three Professional Engineers and two Professional Engineers with Practising Certificate who are in the public service of the Federation;
- (ii) not more than two Professional Engineers who are in the service of any local authority or statutory authority;
- (iii) not more than five Professional Engineers with Practising Certificates who are employees, sole proprietors, partners or directors of an engineering consultancy practice; and
- (iv) a Professional Engineer and a Professional Engineer with Practising Certificate who are employees of any person or body of persons, not being in the public service of the Federation or in the service of any local authority or statutory authority.

MESYUARAT LEMBAGA 2024

Mesyuarat Lembaga telah diadakan sebanyak nine (9) kali pada tahun 2024 seperti berikut:

No.	Bil. Mesyuarat	Tarikh
1	Mesyuarat Khas	26.1.2024
2	Mesyuarat ke-358	19.3.2024
3	Mesyuarat Khas	4.6.2024
4	Mesyuarat ke-359	27.6.2024
5	Mesyuarat Khas	3.7.2024
6	Mesyuarat ke-360	23.8.2024
7	Mesyuarat ke-361	10.10.2024
8	Mesyuarat Khas	5.12.2024
9	Mesyuarat ke-362	27.12.2024

Akta Pendaftaran Jurutera 1967 menetapkan Lembaga untuk bermesyuarat sekurang-kurangnya sekali setahun.

MEETINGS OF THE BOARD 2024

The Board held nine (9) meetings in year 2024 as follows:

No.	Meeting No.	Date
1	Special Board Meeting	26.1.2024
2	358 th Board Meeting	19.3.2024
3	Special Board Meeting	4.6.2024
4	359 th Board Meeting	27.6.2024
5	Special Board Meeting	3.7.2024
6	360 th Board Meeting	23.8.2024
7	361 st Board Meeting	10.10.2024
8	Special Board Meeting	5.12.2024
9	362 nd Board Meeting	27.12.2024

The Registration of Engineers Act 1967 requires the Board to convene meeting at least once a year.

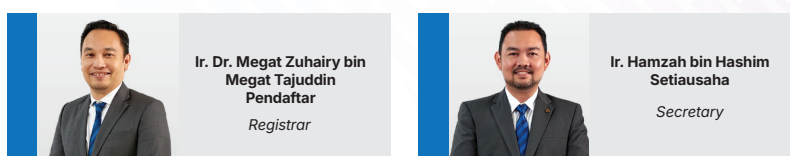


AHLI LEMBAGA 2023 - 2024

BOARD MEMBERS 2023 - 2024



EX-OFFICIO



JAWATANKUASA PENGURUSAN 2023 - 2024

MANAGEMENT COMMITTEE 2023 - 2024



Datuk Ir. Ahmad Redza bin Ghulam Rasool

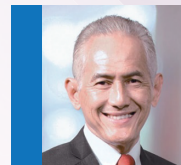
Pengerusi
Chairman



Dato' Paduka
Ir. Keizrul bin Abdullah
Ahli Jawatankuasa
Member



Datuk Wira Ir. Md
Sidek bin Ahmad
Ahli Jawatankuasa
Member



Datuk Ir. (Dr) Abdul
Rahim bin Hashim
Ahli Jawatankuasa
Member



Datuk Ir. Ruslan
bin Abdul Aziz
Ahli Jawatankuasa
Member



Laksamana Pertama Dato'
Ir. Ahmad Murad bin Omar
(Bersara)
Ahli Jawatankuasa
Member



Dato' Ir. Haji Badioezaman
bin Ab Khalik
Ahli Jawatankuasa
Member



Dato' Prof. Ir. Dr. Mohd
Hamdi bin Abd Shukor
Ahli Jawatankuasa
Member



Ir. Prem Kumar
Ahli Jawatankuasa
Member



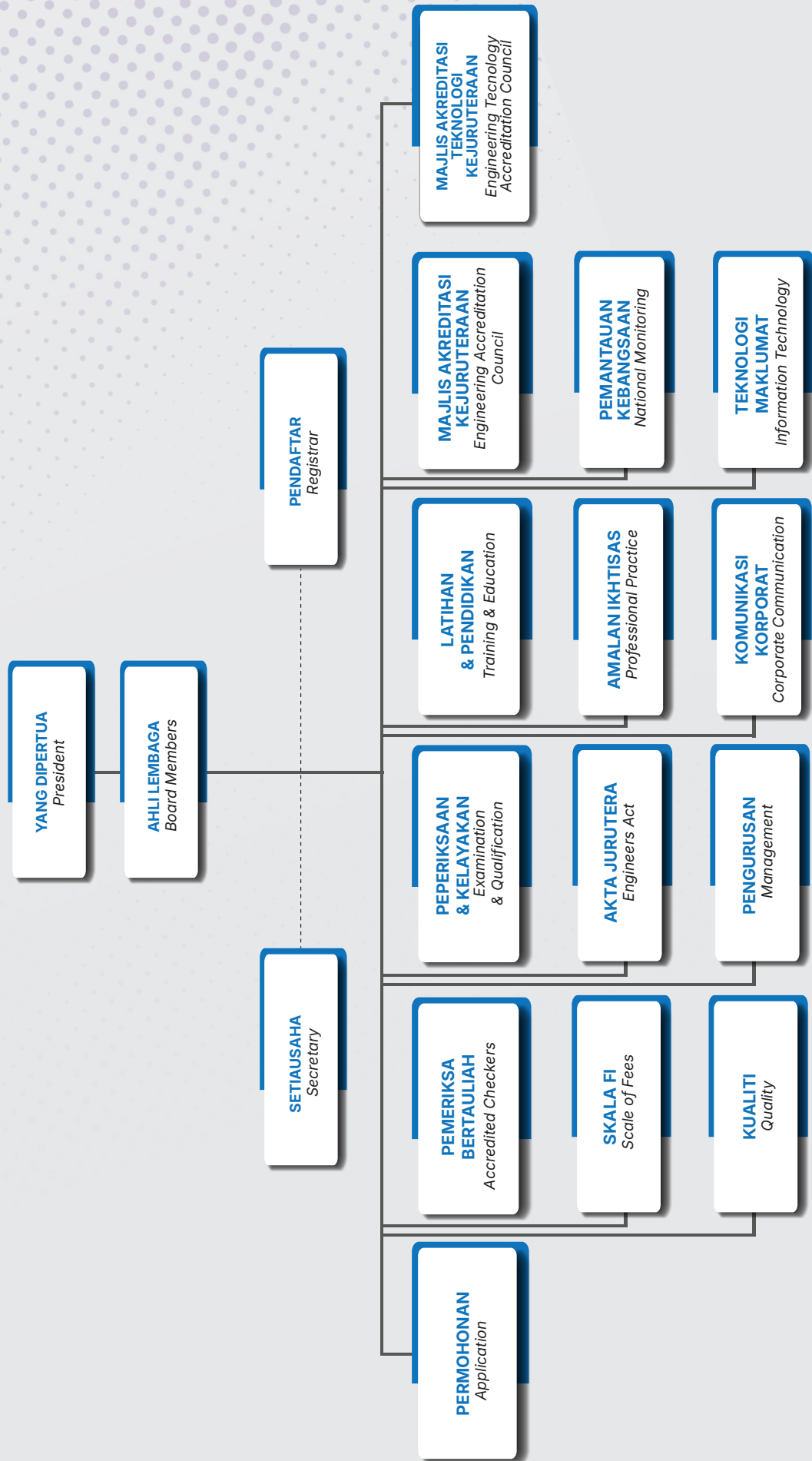
Ir. Dr. Megat Zuhairy
bin Megat Tajuddin
Pendaftar
Registrar



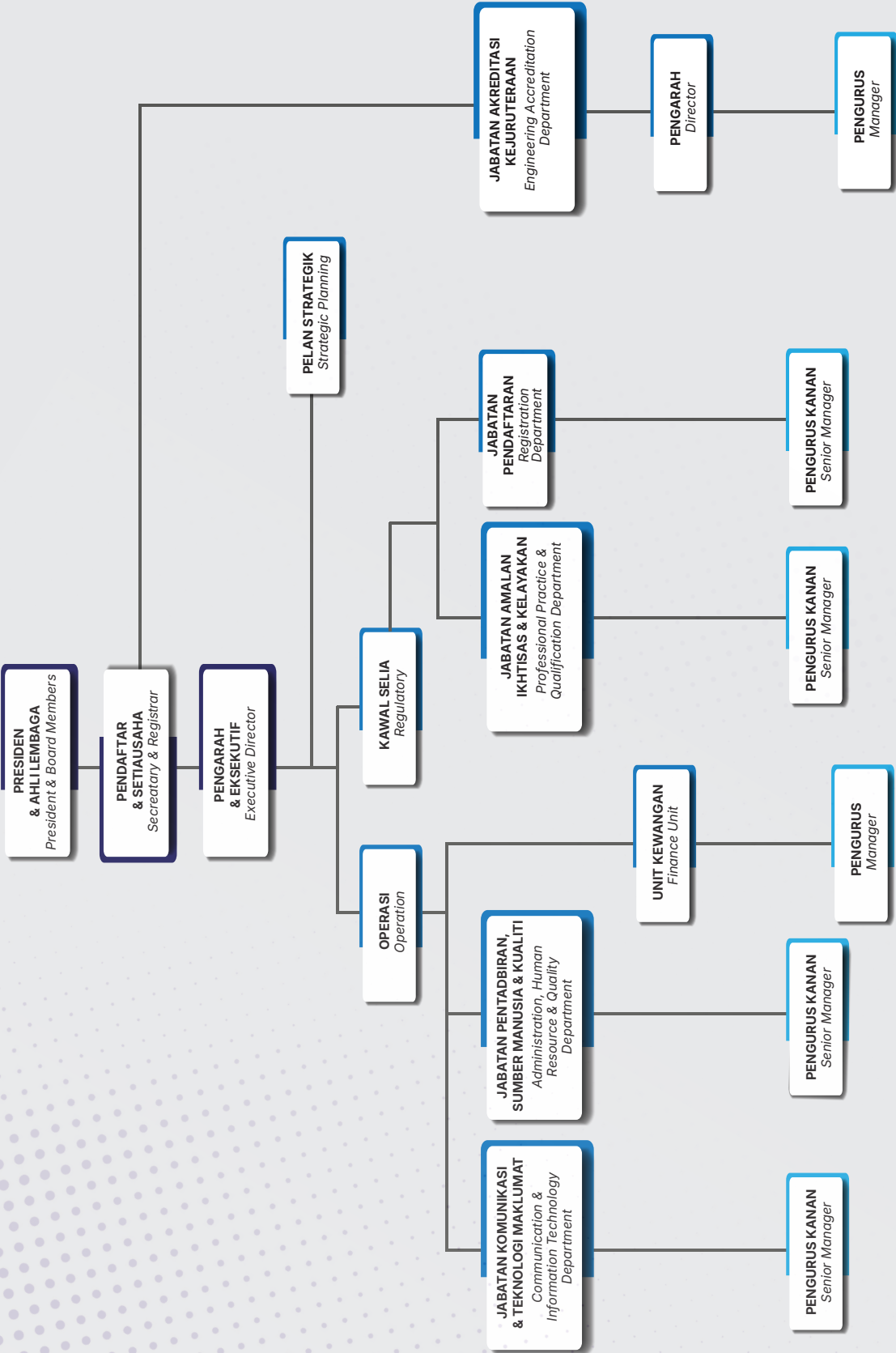
Ir. Hamzah bin Hashim
Setiausaha
Secretary

STRUKTUR ORGANISASI LJM 2024

BEM ORGANISATIONAL STRUCTURE 2024



CARTA ORGANISASI LJM 2024
BEM OPERATIONAL CHART 2024





LAPORAN TAHUNAN 2024

ANNUAL REPORT

TADBIR URUS KORPORAT

CORPORATE GOVERNANCE

TADBIR URUS KORPORAT

CORPORATE GOVERNANCE

Lembaga diuruskan berdasarkan prinsip Tadbir Urus Korporat dengan rujukan utama kepada Akta Pendaftaran Jurutera 1967 (REA 1967) dan Peraturan Pendaftaran Jurutera 1990 (RER 1990), sejajar dengan fungsinya seperti yang termaktub dalam Seksyen 4 REA 1967.

Pelbagai jawatankuasa tetap telah ditubuhkan untuk memantau dan mengukuhkan pelaksanaan REA 1967 dan RER 1990 dan membantu Lembaga melaksanakan fungsinya seperti yang dinyatakan di bawah Jadual dan Peraturan 8 seperti berikut:

Jadual, Perenggan 2:

(5) Tertakluk kepada subperenggan (3) dan (4), Lembaga hendaklah menetapkan tatacaranya sendiri dan, kecuali berhubung dengan seksyen 7A, 7B dan 26, mempunyai kuasa untuk mewakilkan kepada jawatankuasa yang dilantik oleh Lembaga, semua atau mana-mana fungsi Lembaga atas terma, syarat dan sekatan sebagaimana yang difikirkan wajar oleh Lembaga mengikut budi bicaranya. Apa-apa tindakan, keputusan atau ketetapan oleh mana-mana jawatankuasa yang dilantik sedemikian hendaklah disifatkan sebagai tindakan, keputusan atau ketetapan Lembaga.

Peraturan 8:

(1) Lembaga boleh dari semasa ke semasa melantik jawatankuasa daripada kalangan ahlinya atau mana-mana orang yang difikirkan sesuai oleh Lembaga; dan Lembaga boleh pada bila-bila masa membubarkan mana-mana jawatankuasa yang dilantik sedemikian.

The Board is managed based on its Corporate Governance principle, the Registration of Engineers Act 1967 (REA 1967) and the Registration of Engineers Regulations (RER 1990), in line with its functions as in Section 4 of the REA 1967.

Numerous standing committees have been established to monitor and reinforce the implementation of the REA 1967 and RER 1990 and to assist the Board in carrying its functions as stipulated under Schedule and Regulations 8 as follows:

Schedule, Paragraph 2:

(5) Subject to sub-paragraphs (3) and (4) the Board shall determine its own procedure and, except in relation to section 7A, 7B and 26, have power to delegate to committees appointed by the Board, all or any of the function of the Board upon such terms and subject to such conditions and restrictions as the Board may in its absolute discretion think fit. Any act, ruling or decision of any committee so appointed shall be deemed to be the act, ruling or decision of the Board.

Regulation 8:

(1) The Board may from time to time appoint committees from amongst its members or persons whom the Board considers suitable; and the Board may at any time dissolve any committee so appointed.



JAWATANKUASA PENGURUSAN

Ahli:

1. Datuk Ir. Ahmad Redza bin Ghulam Rasool (Awam) (Pengerusi)
2. Dato' Paduka Ir. (Dr) Keizrul bin Abdullah (Awam)
3. Datuk Wira Ir. Md Sidek bin Ahmad (Elektrikal)
4. Datuk Ir. (Dr) Abdul Rahim bin Hashim (Elektrikal)
5. Datuk Ir. Ruslan bin Abdul Aziz (Awam)
6. Laksamana Pertama Dato' Ir. Ahmad Murad bin Omar (Bersara) (Mekanikal)
7. Dato' Ir. Haji Badioezaman bin Ab Khalik (Awam)
8. Dato' Prof. Ir. Dr. Mohd Hamzi bin Abd Shukor (Mekanikal)
9. Ir. Prem Kumar (Elektrikal)

Terma Rujukan:

- Mengesyorkan dan memantau hal-hal pentadbiran, sumber manusia, perolehan dan kewangan Lembaga yang berkaitan dengan Bahagian II Peraturan Pendaftaran Jurutera 1990 dan/atau keperluan undang-undang lain yang berkenaan.
- Merangka dasar mengenai sokongan kewangan.
- Memastikan penyelenggaraan dan pengurusan rekod yang berkaitan dengan:
 - (a) Aset dan liabiliti Lembaga.
 - (b) Pendapatan dan perbelanjaan Lembaga.
- Bertanggungjawab untuk melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga

MANAGEMENT COMMITTEE

Members:

1. Datuk Ir. Ahmad Redza bin Ghulam Rasool (Civil) (Chairman)
2. Dato' Paduka Ir. (Dr) Keizrul bin Abdullah (Civil)
3. Datuk Wira Ir. Md Sidek bin Ahmad (Electrical)
4. Datuk Ir. (Dr) Abdul Rahim bin Hashim (Electrical)
5. Datuk Ir. Ruslan bin Abdul Aziz (Civil)
6. First Admiral Dato' Ir. Ahmad Murad bin Omar (Retired) (Mechanical)
7. Dato' Ir. Haji Badioezaman bin Ab Khalik (Awam)
8. Dato' Prof. Ir. Dr. Mohd Hamzi bin Abd Shukor (Mekanikal)
9. Ir. Prem Kumar (Electrical)

Terms of Reference:

- Recommend and monitor on administration, human resource, procurement and financial matters of the Board in relation to Part II of The Registration of Engineers Regulations 1990 and/or other relevant legal requirements.
- Formulate policies on financial support.
- Ensure upkeep and maintenance of accounts and records relating to:
 - (a) Assets and liabilities of the Board.
 - (b) Income and expenses of the Board.
- Responsible to operationalise any policies or tasks determined by the Board.



JAWATANKUASA AKTA JURUTERA**Ahli:**

1. Dato' Ir. Haji Badioezaman bin Ab. Khalik (Awam) (Pengerusi)
2. Datuk Ir. Mohd Adnan bin Mohd Nor (Awam) (Pengerusi Gantian)
3. Datuk Paduka Ir. (Dr) Keizrul bin Abdullah (Awam)
4. Dato' Ir. Chew Swee Hock (Awam)
5. Dato' Ir. Prof. Ir. Dr. Hassan bin Basri (Awam)
6. Datin Sri Ir. Hj Nor Asiah binti Othman (Awam)
7. Ir. Amin bin Ramli (Awam)
8. Ir. Prem Kumar (Elektrikal)
9. Ir. Lai Sze Ching (Mekanikal)
10. Ir. Haji Omar bin Mat Piah (Mekanikal)
11. Ir. Hizamul-din bin Ab Rahman (Elektrikal)

Terma Rujukan:

- Membantu dan menasihati Lembaga mengenai perkara yang berhubungan dengan –
 - (a) Akta dan Peraturan; dan
 - (b) Akta Parlimen serta Rang Undang-Undang lain yang mungkin memberi kesan atau menjejaskan kepentingan profesion kejuruteraan.
- Memberi pandangan apabila diminta sama ada sesuatu tindakan atau keputusan oleh Lembaga atau Jawatankuasa bakal/akan melanggar atau ultra vires ke atas Akta dan Peraturan.
- Bertindak secara proaktif dalam mengikuti perkembangan terkini dalam bidang kejuruteraan serta menilai keperluan untuk meminda atau mengemas kini Akta dan Peraturan berhubung dengan amalan perkhidmatan kejuruteraan.
- Sentiasa menilai keperluan untuk mengemas kini mana-mana bahagian Akta dan Peraturan serta menasihati Lembaga sewajarnya;
- Menyediakan draf pindaan kepada Akta atau Peraturan sekiranya Lembaga memutuskan sebarang pindaan berkaitan perkara di atas;
- Menangani sebarang pertanyaan yang berkaitan dengan Akta dan Peraturan; dan
- Bertanggungjawab untuk melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga

ENGINEERS ACT COMMITTEE**Members:**

1. Dato' Ir. Haji Badioezaman bin Ab. Khalik (Civil) (Chairman)
2. Datuk Ir. Mohd Adnan bin Mohd Nor (Civil) (Alternate Chairman)
3. Datuk Paduka Ir. (Dr) Keizrul bin Abdullah (Civil)
4. Dato' Ir. Chew Swee Hock (Civil)
5. Dato' Ir. Prof. Ir. Dr. Hassan bin Basri (Civil)
6. Datin Sri Ir. Hj Nor Asiah binti Othman (Civil)
7. Ir. Amin bin Ramli (Civil)
8. Ir. Prem Kumar (Electrical)
9. Ir. Lai Sze Ching (Mechanical)
10. Ir. Haji Omar bin Mat Piah (Mechanical)
11. Ir. Hizamul-din bin Ab Rahman (Electrical)

Terms of Reference:

- Assist and advise the Board on matters relating to -
 - (a) The Act and Regulations; and
 - (b) Other Parliamentary Acts and Bills that may affect or infringe upon the interests of the engineering profession.
- Provide an opinion when requested regarding whether an action or decision of the Board or a Committee would contravene or be ultra vires the Act and Regulations.
- Proactively keep abreast with new developments in the engineering fields and assess the need to update the Act and Regulations in respects of the practice of engineering services.
- Regularly review the need to update any part of the Act and Regulations and advise the Board accordingly;
- Draft amendment(s) to the Act or Regulations should the Board decide upon any amendments consequential to the above;
- Attend to any enquiry pertaining to the Act and Regulations; and
- Responsible to operationalise any policies or tasks determined by the Board.

JAWATANKUASA SKALA FI

Ahli:

1. Ir. Yau Chau Fong (Elektrik) (Pengerusi)
2. Dato' Ir. Dr. Ahmad Anuar bin Othman (Awam) (Pengerusi Gantian)
3. Dato' Ir. Nor Hisham bin Mohd Ghazali (Awam)
4. Ir. Lai Sze Ching (Mekanikal)
5. Ir. Chen Thiam Leong (Mekanikal)
6. Ir. Ong Ching Loon (Mekanikal)
7. Ir. Arul Hisham bin Abdul Rahim (Mekanikal)
8. Ir. Sreedaran a/l Raman (Awam)
9. Ir. Ahmad Rashidi bin Zainuddin (Elektrikal)
10. Ir. Melati binti Mudzaffar Ali (Awam)
11. Sr Rogayah binti Yunus (Juruukur Bahan)
12. Ir. Hj Talhah @ Talha bin Hj Affendi (Awam)
13. Ir. Amirul Hisham bin Datuk Hj Ismail (Awam)

Terma Rujukan:

- Menilai semula skala yuran dari semasa ke semasa dengan mengambil kira keperluan industri yang sentiasa berubah dan membuat syor kepada Lembaga.
- Mengemas kini Borang Model Perjanjian dari semasa ke semasa, dengan mengambil kira keperluan industri yang berubah dan membuat syor kepada Lembaga.
- Membantu Lembaga membuat penjelasan terhadap pertanyaan-pertanyaan yang berkaitan dengan yuran profesional.
- Membantu Lembaga dalam membuat perwakilan kepada pihak berkuasa dan organisasi mengenai perkara yang memberi kesan kepada Jurutera berhubung dengan yuran dan hak profesional.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

SCALE OF FEES COMMITTEE

Members:

1. Ir. Yau Chau Fong (Electrical) (Chairman)
2. Dato' Ir. Dr. Ahmad Anuar bin Othman (Civil) (Alternate Chairman)
3. Dato' Ir. Nor Hisham bin Mohd Ghazali (Civil)
4. Ir. Lai Sze Ching (Mechanical)
5. Ir. Chen Thiam Leong (Mechanical)
6. Ir. Ong Ching Loon (Mechanical)
7. Ir. Arul Hisham bin Abdul Rahim (Mechanical)
8. Ir. Sreedaran a/l Raman (Civil)
9. Ir. Ahmad Rashidi bin Zainuddin (Electrical)
10. Ir. Melati binti Mudzaffar Ali (Civil)
11. Sr Rogayah binti Yunus (Quantity Surveyor)
12. Ir. Hj Talhah @ Talha bin Hj Affendi (Civil)
13. Ir. Amirul Hisham bin Datuk Hj Ismail (Civil)

Terms of Reference:

- Review the scale of fees from time to time, taking into Committee consideration the changing need of the industry, and make recommendations to the Board.
- Update the Model Form of Agreement from time to time, taking into consideration the changing need of the industry, and make recommendations to the Board.
- Assist the Board in making clarifications to enquiries on matters relating to professional fees.
- Assist the Board in making representations to relevant authorities and organisations on matters affecting Engineers with regard to fees and professional rights.
- Responsible to operationalise any policies or tasks determined by the Board.

JAWATANKUASA PEMANTAUAN KEBANGSAAN

Ahli:

LJM

Datuk Ir. Ahmad Redza bin Ghulam Rasool (Awam) (Pengerusi)
Ir. Megat Johari bin Megat Mohd Noor (Awam) (Pengerusi Gantian)
Datuk Wira Ir. Md. Sidek bin Ahmad (Elektrikal)

JURUTERA PROFESIONAL DAN LAIN-LAIN

Datuk Ir. Ruslan bin Abdul Aziz (Awam)
Ir. Hizamul-din bin Ab Rahman (Elektrikal)
Ir. Mohd Shahrom bin Ahmad Saman (Awam)
Datuk Ir. (Dr) Abdul Rahim bin Hashim (Elektrikal)
Datuk Ir. Mohd Adnan bin Mohd Nor (Awam)

IEM

Prof. Ir. Dr. Norlida binti Buniyamin (Elektrikal)
Ir. Ong Ching Loon (Mekanikal)

ACEM

Ir. Sundraraj a/l A. Krishnasamy (Civil)

Terma Rujukan:

- Melaksanakan fungsi Jawatankuasa Pemantauan (Monitoring Committee, MC) seperti yang diperuntukkan di bawah Artikel 4.2 dalam ASEAN MRA on Engineering Services.
- Mewakili Lembaga dalam mesyuarat atau persidangan berkaitan dengan –
 - ASEAN CCS seperti TWG-MAE, ACPECC, BSSWG dan CCS; serta
 - International Engineering Alliance seperti APEC Engineers, IPEA, IETA, AIET, Washington Accord, Sydney Accord dan Dublin Accord.
- Memantau pendaftaran dan pembangunan serta perkara-perkara berkaitan amalan kejuruteraan profesional antarabangsa seperti APEC Engineers, IPEA, IETA, AIET dan lain-lain.
- Mewakili Lembaga dalam forum atau persidangan yang berkaitan dengan amalan kejuruteraan profesional antarabangsa dan perkara-perkara lain yang berkaitan.
- Terlibat secara aktif dalam organisasi antarabangsa berkaitan dengan amalan terbaik kejuruteraan.
- Memberi nasihat dan mencadangkan tindakan yang perlu diambil oleh Lembaga berhubung perkara-perkara yang berkaitan.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

NATIONAL MONITORING COMMITTEE

Members:

BEM

Datuk Ir. Ahmad Redza bin Ghulam Rasool (Civil) (Chairman)
Ir. Megat Johari bin Megat Mohd Noor (Civil) (Alternate Chairman)
Datuk Wira Ir. Md. Sidek bin Ahmad (Electrical)

IDENTIFIED PE AND OTHERS

Datuk Ir. Ruslan bin Abdul Aziz (Civil)
Ir. Hizamul-din bin Ab Rahman (Electrical)
Ir. Mohd Shahrom bin Ahmad Saman (Civil)
Datuk Ir. (Dr) Abdul Rahim bin Hashim (Electrical)
Datuk Ir. Mohd Adnan bin Mohd Nor (Civil)

IEM

Prof. Ir. Dr. Norlida binti Buniyamin (Electrical)
Ir. Ong Ching Loon (Mechanical)

ACEM

Ir. Sundraraj a/l A. Krishnasamy (Civil)

Terms of Reference:

- Perform the functions of the Monitoring Committee, i.e. MC as per Article of 4.2 of the ASEAN MRA on Engineering Services.
- Represent the Board in meetings / conference in matter related to -
 - ASEAN CCS such as TWG-MAE, ACPECC, BSSWG and CCS; and
 - International Engineering Alliance such as APEC Engineers, IPEA, IETA, AIET, Washington Accord, Sydney Accord and Dublin Accord.
- Monitor the registration and development and matters related to international professional engineering practices, namely, APEC Engineers, IPEA, IETA, AIET and others.
- Represent the Board at forum / conferences related to international professional engineering practice and other related matters.
- Actively participate in international organisations in matters related to best engineering practices.
- Advise and recommend actions to be taken by the Board on related matters.
- Responsible to operationalise any policies or tasks determined by the Board.

Abbreviations / Terminology

ACPECC:	ASEAN Chartered Professional Engineer Coordinating Committee
AIET	Agreement for International Engineering Technicians
ACEM	Association of Consulting Engineers Malaysia
APEC	Asia Pacific Economic Cooperation
ASEAN	Association of South East Asian Nations
BEM / Board	Board of Engineers Malaysia
BSSWG	Business Services Sectoral Working Group
CCS	Coordinating Committee on Services
IEM	Institution of Engineers Malaysia
IETA	International Engineering Technologists Agreement
IPEA	International Professional Engineers Agreement
MRA	Mutual Recognition Arrangement
MC	Monitoring Committee
TWG-MAE	Technical Working Group on Mobility of ASEAN Engineers

JAWATANKUASA PERMOHONAN

Ahli:

1. Dato' Ir. Dr. Ahmad Anuar bin Othman (Awam) (Pengerusi)
2. Ir. Siraja bin Hj Bashora (Awam) (Pengerusi Gantian)
3. Ir. Gunasagaran Kristnan (Awam)
4. Ir. Noorhazilah binti Baharin (Mekanikal)
5. Dato' Prof. Ir. Dr. Othman bin A. Karim (Awam)
6. Ir. Magdalene Tan Lee (Elektrikal)
7. Prof. Emeritus Ir. Dr. K S Kannan (Mekanikal)
8. Ir. Ong Ching Loon (Mekanikal)
9. Ir. Razmahwata bin Mohamad Razalli (Kimia)
10. Ir. Ashari bin Mohd Yakub (Elektrikal)
11. Ir. Dr. Nor Azhar bin Mohd Arif (Elektronik)

Terma Rujukan:

- Menyimpan dan menyelenggara Daftar.
- Menilai permohonan individu untuk pendaftaran termasuk pembaharuan, pengembalian semula dan aktiviti berkaitan bagi kategori berikut:
 - (a) Jurutera Siswazah
 - (b) Teknologis Kejuruteraan
 - (c) Pemeriksa Tapak
 - (d) Jurutera Profesional
 - (e) Jurutera Profesional dengan Sijil Amalan
 - (f) Sebarang pendaftaran lain yang diluluskan oleh Lembaga
- Menilai permohonan pendaftaran ECP termasuk pembaharuan, pengembalian semula dan aktiviti berkaitan bagi kategori berikut:
 - (a) Pemilikan Tunggal
 - (b) Perkongsian
 - (c) Pertubuhan Perbadanan (Badan Korporat)
 - (d) Amalan Pelbagai Disiplin

APPLICATION COMMITTEE

Members:

1. Dato' Ir. Dr. Ahmad Anuar bin Othman (Civil) (Chairman)
2. Ir. Siraja bin Hj Bashora (Civil) (Alternate Chairman)
3. Ir. Gunasagaran Kristnan (Civil)
4. Ir. Noorhazilah binti Baharin (Mechanical)
5. Dato' Prof. Ir. Dr. Othman bin A. Karim (Civil)
6. Ir. Magdalene Tan Lee (Electrical)
7. Prof. Emeritus Ir. Dr. K S Kannan (Mechanical)
8. Ir. Ong Ching Loon (Mechanical)
9. Ir. Razmahwata bin Mohamad Razalli (Chemical)
10. Ir. Ashari bin Mohd Yakub (Electrical)
11. Ir. Dr. Nor Azhar bin Mohd Arif (Electronic)

Terms of Reference:

- Keep and maintain the Register.
- Assessment of individual application for registration including renewal, reinstatement and relevant activities for the following categories:
 - (a) Graduate Engineer
 - (b) Engineering Technologist
 - (c) Inspector of Works
 - (d) Professional Engineer
 - (e) Professional Engineer with Practising Certificate
 - (f) Any other registration approved by the Board
- Assessment of ECP application for registration including renewal, reinstatement and relevant activities for the following categories:
 - (a) Sole proprietorship
 - (b) Partnership
 - (c) Body Corporate
 - (d) Multi-Disciplinary Practice

- Menilai permohonan Jurutera Berdaftar dalam ECP untuk menjadi pengarah atau eksekutif atau pemegang saham utama atau ejen bagi mana-mana syarikat atau firma atau perniagaan kontraktor atau pembuatan yang berkaitan dengan bidang bangunan atau kejuruteraan.
- Sentiasa menambah baik, melaksanakan dan menyelenggara pendaftaran secara e-bulk bagi semua program kejuruteraan dan teknologi kejuruteraan yang diakreditasi oleh EAC dan ETAC.
- Bekerjasama dengan Jawatankuasa yang berkaitan untuk melibatkan entiti kejuruteraan bagi tujuan pendaftaran bakal Orang Berdaftar.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

JAWATANKUASA PEMERIKSA BERTAULIAH

Ahli:

1. Datuk Ir. Mohd Adnan bin Mohd Nor (Awam) (Pengerusi)
2. Ir. Richard Anak Tajan (Awam) (Pengerusi Gantian)
3. Dato' Ir. Fong Tian Yong (Awam)
4. Dato' Ir. Dr. Mohd Asbi bin Othman (Awam)
5. Dato' Ir. Haji Ibrahim bin Esa (Awam)
6. Ir. Dr. Tan Yean Chin (Awam)
7. Ir. Dr. Mohd Sabri bin Abdullah (Awam)
8. Ir. Wan Anuar bin Wan Endut (Awam)
9. Ir. Loh Yee Eng (Awam)
10. Ir. Kuang Kok Leong (Awam)
11. Ir. Nazemi bin Abdul Majid (Awam)

Terma Rujukan:

- Membantu Lembaga dalam merangka dan mengemas kini dasar, prosedur, pekeliling, garis panduan dan Soalan Lazim (FAQ) bagi pendaftaran Pemeriksa Bertauliah.
- Menyemak skop kerja, peranan dan tanggungjawab Pemeriksa Bertauliah.
- Memproses dan menilai permohonan untuk pendaftaran Pemeriksa Bertauliah.
- Mengendalikan temu duga Pemeriksa Bertauliah.
- Mengesyorkan kepada Lembaga senarai individu yang layak untuk didaftarkan sebagai Pemeriksa Bertauliah.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

- Assessment of application of a Registered Engineer in an ECP to be a director or executive of or substantial shareholder in or agent for any contracting or manufacturing company or firm or business related to building or engineering.
- Continually improve, implement and maintain e-bulk registration for all engineering and engineering technology programmes accredited by EAC and ETAC.
- Collaborate with relevant Committees to engage with engineering entities for registration of potential Registered Person.
- Responsible to operationalise any policies or tasks determined by the Board.

ACCREDITED CHECKERS COMMITTEE

Members:

1. Datuk Ir. Mohd Adnan bin Mohd Nor (Civil) (Chairman)
2. Ir. Richard Anak Tajan (Civil) (Alternate Chairman)
3. Dato' Ir. Fong Tian Yong (Civil)
4. Dato' Ir. Dr. Mohd Asbi bin Othman (Civil)
5. Dato' Ir. Haji Ibrahim bin Esa (Civil)
6. Ir. Dr. Tan Yean Chin (Civil)
7. Ir. Dr. Mohd Sabri bin Abdullah (Civil)
8. Ir. Wan Anuar bin Wan Endut (Civil)
9. Loh Yee Eng (Civil)
10. Ir. Kuang Kok Leong (Civil)
11. Ir. Nasemi bin Abdul Majid (Civil)

Terms of Reference:

- Assist the Board in formulating and updating policies, procedures, circulars, guidelines and Frequently Asked Questions for registration of Accredited Checkers.
- Review the scope of works, roles and responsibility of Accredited Checker.
- Process and assess the application for registration of Accredited Checker.
- Conduct Accredited Checkers interview.
- Recommend to the Board the list of qualified persons to be registered as Accredited Checker.
- Responsible to operationalise any policies or tasks determined by the Board.

JAWATANKUASA PEPERIKSAAN & KELAYAKAN

Ahli:

1. Megat Johari bin Megat Mohd Noor (Awam) (Pengerusi)
2. Ir. Sundraraj a/l A. Krishnasamy (Awam) (Pengerusi Gantian)
3. Dato' Ir. Dr. Che Hassandi bin Abdullah (Awam)
4. Ir. Magdalene Tan Lee (Elektrik)
5. Prof. Emeritus Ir. Dr. K S Kannan (Mekanikal)
6. Prof. Ir. Dr. Abdul Aziz bin Abd Raman (Kimia)
7. Prof. Ir. Dr. Abd Rahim bin Abu Talib (Aeronautikal)
8. Ir. Prem Kumar (Elektrikal)
9. Ir. Dr. Muhammad Arkam bin Che Munaaim (Elektrikal)
10. Ir. Ricky Liew Chee Leong (Aeronautikal)
11. Mr. Ridzuan bin Md. Sham (Industri)

Terma Rujukan:

- Membantu Lembaga dalam merangka dasar berkaitan keperluan pendaftaran seperti yang ditetapkan oleh Lembaga.
- Mengurus semua peperiksaan kejuruteraan yang diperlukan oleh Lembaga termasuk pentadbiran, pelaksanaan serta pengurusan dan pemantauan pihak penyedia perkhidmatan luar (outsourcing).
- Memastikan kualiti dan keseragaman peperiksaan dengan menganjurkan latihan / bengkel dari semasa ke semasa.
- Melaporkan kepada Lembaga prestasi mana-mana organisasi penyedia perkhidmatan yang terlibat dalam pelaksanaan peperiksaan bagi pihak Lembaga dari semasa ke semasa.
- Menilai kelayakan kejuruteraan untuk pengiktirafan oleh Lembaga.
- Mengkaji dan menasihati Lembaga mengenai dasar berkaitan peperiksaan dan hal ehwal kelayakan.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

EXAMINATION & QUALIFICATION COMMITTEE

Members:

1. Ir. Megat Johari bin Megat Mohd Noor (Civil) (Chairman)
2. Ir. Sundraraj a/l A. Krishnasamy (Civil) (Alternate Chairman)
3. Dato' Ir. Dr. Che Hassandi bin Abdullah (Civil)
4. Ir. Magdalene Tan Lee (Electrical)
5. Prof. Ir. Dr. K.S. Kannan (Mechanical)
6. Prof. Ir. Dr. Abdul Aziz bin Abd Raman (Chemical)
7. Prof. Ir. Dr. Abd Rahim bin Abu Talib (Aeronautical)
8. Ir. Prem Kumar (Electrical)
9. Ir. Dr. Muhammad Arkam bin Che Munaaim (Electrical)
10. Ir. Ricky Liew Chee Leong (Aeronautical)
11. Mr. Ridzuan bin Md. Sham (Industrial)

Terms of Reference:

- Assist the Board in formulating policies on requirements for registration as determined by the Board.
- Manage all engineering examinations required by the Board including its administration, conduct, outsourcing and monitoring of Service Supplier.
- Ensure the quality and consistency of examinations by conducting training / workshops from time to time.
- Report to the Board the performance of any Service Supplier organisation involved in conducting examinations on behalf of the Board from time to time.
- Evaluation of engineering qualifications for recognition by the Board.
- Study and advise the Board on policies pertaining to examination and qualification matters.
- Responsible to operationalise any policies or tasks determined by the Board

JAWATANKUASA LATIHAN & PENDIDIKAN

Ahli:

1. Ir. Haji Mohd Hatta bin Zakaria (Mekanikal) (Pengerusi)
2. Ir. Yau Chau Fong (Elektrikal) (Pengerusi Gantian)
3. Dato' Ir. Dr. Che Hassandi bin Abdullah (Awam)
4. Prof. Ir. Dr. Rozita binti Yusoff (Kimia)
5. Prof. Ir. Dr. Abd Rahim bin Abu Talib (Aeronautikal)
6. Ir. Mohd Rasid bin Osman (Pembuatan)
7. Ir. Dr. Ng Soon Ching (Awam)
8. Ir. Tajul Ariffin bin Mohd Nori (Mekanikal)
9. Ir. Hj. Mohd Fairuz bin Mohd Rashid (Mekanikal)
10. Ir. Dr. Muhammad Arkam bin Che Munaaim (Elektrik)
11. Ir. Ana Salmi binti Ahmad Salman (Elektrikal)

Terma Rujukan:

- Menyediakan kemudahan untuk promosi pembelajaran dan pendidikan dan mengadakan atau menyebabkan diadakan program pembangunan profesional, termasuk program CPD untuk orang berdaftar untuk meningkatkan lagi pengetahuan mereka dalam perkembangan terkini berkaitan profesion itu yang merangkumi -
 - (a) Memudahkan penganjuran acara / program dalaman untuk pembelajaran dan pendidikan, serta melalui kerjasama dengan pihak berkaitan.
 - (b) Merancang dan menyemak semula dasar berkaitan CPD serta memantau pelaksanaannya.
 - (c) Mempertingkatkan promosi program pembangunan profesional dan aktiviti CPD kepada orang berdaftar.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

TRAINING & EDUCATION COMMITTEE

Members:

1. Ir. Haji Mohd Hatta bin Zakaria (Mechanical) (Chairman)
2. Ir. Yau Chau Fong (Electrical) (Alternate Chairman)
3. Dato' Ir. Dr. Che Hassandi bin Abdullah (Civil)
4. Prof. Ir. Dr. Rozita binti Yusoff (Chemical)
5. Prof. Ir. Dr. Abd Rahim bin Abu Talib (Aeronautical)
6. Ir. Mohd Rasid bin Osman (Manufacturing)
7. Ir. Dr. Ng Soon Ching (Civil)
8. Ir. Tajul Ariffin bin Mohd Nori (Mechanical)
9. Ir. Hj. Mohd Fairuz bin Mohd Rashid (Mechanical)
10. Ir. Dr. Muhammad Arkam bin Che Munaaim (Elektrik)
11. Ir. Ana Salmi binti Ahmad Salman (Electrical)

Terms of Reference:

- Provide facilities for the promotion of learning and education and to hold or cause to be held professional development programmes, including CPD programmes for registered persons to further enhance their knowledge in the latest developments relating to that profession which comprises of –
 - (a) Facilitate in-house events / programmes for learning and education, and through collaboration with other relevant parties.
 - (b) Plan and review policies on CPD and monitor its implementation.
 - (c) Promote professional development programme and CPD activities for registered person.
- Responsibility to operationalise any policies or tasks determined by the Board.

JAWATANKUASA AMALAN IKHTISAS**Ahli:**

1. Ir. Sundraraj a/l A. Krishnasamy (Awam) (Pengerusi)
2. Datuk Ir. Mohd Adnan bin Mohd Nor (Awam) (Pengerusi Gantian)
3. Datuk Ir. Mohammad Azman bin Jamrus (Awam)
4. Dato' Ir. Fong Tian Yong (Awam)
5. Dato' Ir. Mohd Fazli bin Osman (Elektrikal)
6. Dato' Ir. Roslan bin Ismail (Awam)
7. Ir. Wong Shu Leong (Elektrikal)
8. Ir. Anuar bin Mohd Aris (Awam)
9. Ir. Bashir Ahamed bin Maideen (Awam)
10. Ir. Gopal Narian Kutty (Mekanikal)
11. Ir. Chong Chew Fan (Elektrikal)
12. Ir. Sharifah Azlina binti Raja Kamal Pasmah (Awam)
13. Supt. Eu Kee Leong (Wakil PDRM)
14. Ir. Razalie bin Sindong (Awam)
15. Ir. William Tan Khoon Lee (Awam)

Terma Rujukan:

- Membantu Lembaga dalam perkara berkaitan tatakelakuan dan etika profesional Orang Berdaftar melalui pekeliling dan garis panduan yang ditetapkan, bagi memastikan ketekalan dalam prosiding tatatertib yang dijalankan oleh Lembaga di bawah Akta Pendaftaran Jurutera 1967.
- Menentukan dan mengesyorkan kepada Lembaga untuk penerimaan Kod Tatakelakuan Profesional bagi Orang Berdaftar; serta menyemak dan mengemas kini kod tersebut secara berkala.
- Menentukan dan mengesyorkan kepada Lembaga untuk penerimaan pekeliling atau garis panduan berkaitan tatakelakuan profesional Orang Berdaftar dan ECP; serta menyemak dan mengemas kini dokumen tersebut secara berkala.
- Membantu Lembaga dalam menguruskan aduan dan menentukan pertikaian berkaitan tatakelakuan profesional atau etika Orang Berdaftar dan ECP.
- Mengesyorkan kepada Lembaga pelantikan Jawatankuasa Penyiasatan bagi kes di mana Jawatankuasa Amalan Ikhtisas (PPC) mendapati terdapat asas prima facie untuk siasatan lanjut secara mendalam.
- Membantu dan menasihati Lembaga mengenai skop Amalan Profesional dan tanggungjawabnya.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

PROFESSIONAL PRACTICE COMMITTEE**Members:**

1. Ir. Sundraraj a/l A. Krishnasamy (Civil) (Chairman)
2. Datuk Ir. Mohd Adnan bin Mohd Nor (Civil) (Alternate Chairman)
3. Datuk Ir. Mohammad Azman bin Jamrus (Civil)
4. Dato' Ir. Fong Tian Yong (Civil)
5. Dato' Ir. Mohd Fazli bin Osman (Electrical)
6. Dato' Ir. Roslan bin Ismail (Civil) - JKR
7. Ir. Wong Shu Leong (Electrical)
8. Ir. Anuar bin Mohd Aris (Civil)
9. Ir. Bashir Ahamed bin Maideen (Civil)
10. Ir. Gopal Narian Kutty (Mechanical)
11. Ir. Chong Chew Fan (Electrical)
12. Ir. Sharifah Azlina binti Raja Kamal Pasmah (Civil)
13. Supt. Eu Kee Leong (Rep. from PDRM)
14. Ir. Razalie bin Sindong (Civil)
15. Ir. William Tan Khoon Lee (Civil)

Terms of Reference:

- Assist the Board in matters pertaining to professional conduct and ethics of registered person through established circulars and guidelines with a view to ensuring consistency in disciplinary proceedings carried out by the Board under the Registration of Engineers Act 1967.
- Determine and recommend to the Board for acceptance the Code of Professional Conduct for registered person; and to regularly review and update them.
- Determine and recommend to the Board for the acceptance of circulars or guidelines on professional conduct of registered person and ECP; and to regularly review and update them.
- Assist the Board in managing complaints and determine disputes relating to professional conduct or ethics of registered person and ECP.
- Recommend to the Board for the appointment of Investigating Committee on cases where the PPC finds there are prima facie grounds for further in-depth investigation.
- Assist and advise the Board on the scope of Professional Practice and responsibility.
- Responsible to operationalise any policies or tasks determined by the Board

JAWATANKUASA TEKNOLOGI MAKLUMAT

Ahli:

1. Dato' Ir. Abdul Razib bin Dawood (Electrical) (Chairman)
2. Prof. Ir. Dr. Norlida binti Buniyamin (Electrical) (Alternate Chairman)
3. Dato' Prof. Ir. Dr. Othman bin A. Karim (Civil)
4. Ir. Muhammad Farris bin Khyasudeen (Telecommunication)
5. Ir. Norhasita binti Mohd Yusof (Communication)
6. Ir. Abdul Razak bin Yakob (Petroleum)
7. Dr. Shaiful Jahari Hashim
8. En. Muhamad Armi bin Abdul Majid
9. En. Azlan bin Ahmad
10. En. Khairul Fahami bin Ismail
11. En. Mohamed Kheirulnaim bin Mohamed Danial

Terma Rujukan:

- Mengenal pasti dan mempertimbangkan inisiatif ICT strategik dan risiko berkaitan yang bertujuan untuk menyampaikan perkhidmatan yang berkesan untuk LJM.
- Membangun, menyelenggara, memantau dan sentiasa mengemas kini serta menambah baik kemudahan dan sistem ICT secara berterusan di LJM.
- Menentukan, memantau dan menyemak semula dasar serta amalan ICT bagi memastikan keberkesanan dan ketepatannya.
- Menyediakan dan menyelenggara Sistem Pengurusan Pengetahuan LJM.
- Berperanan sebagai penasihat kepada Lembaga dan jawatankuasa lain berkaitan hal-hal ICT.
- Mewakili Lembaga mengenai perkara yang berkaitan dengan IT.
- Memudah cara pengumpulan dan penerimaan maklumat secara elektronik..
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

INFORMATION TECHNOLOGY COMMITTEE

Members:

1. Dato' Ir. Abdul Razib bin Dawood (Electrical) (Chairman)
2. Prof. Ir. Dr. Norlida binti Buniyamin (Electrical) (Alternate Chairman)
3. Dato' Prof. Ir. Dr. Othman bin A. Karim (Civil)
4. Ir. Muhammad Farris bin Khyasudeen (Telecommunication)
5. Ir. Norhasita binti Mohd Yusof (Communication)
6. Ir. Abdul Razak bin Yakob (Petroleum)
7. Dr. Shaiful Jahari Hashim
8. Mr. Muhamad Armi bin Abdul Majid
9. Mr. Azlan bin Ahmad
10. Mr. Khairul Fahami bin Ismail
11. Mr. Mohamed Kheirulnaim bin Mohamed Danial

Terms of Reference:

- Identify and consider strategic ICT initiatives and related risks aimed at delivering effective services for BEM.
- Develop, maintain, monitor and continuously update and improve ICT facilities and systems in BEM.
- Determine, monitor and revise ICT policies and practices to ensure that they continue to remain effective and accurate.
- Set up and maintain Knowledge Management System of the BEM.
- Advisory role to the Board and other Committees related to ICT.
- Represent the Board on matters relating to ICT.
- Facilitate collation and receiving of information electronically.
- Responsible to operationalise any policies or tasks determined by the Board.

JAWATANKUASA KOMUNIKASI KORPORAT

Ahli:

1. Ir. Fam Yew Hin (Mekanikal) (Pengerusi)
2. Ir. Mohd Khir bin Muhammad (Aeronautikal) (Pengerusi Gantian)
3. Laksamana Pertama Dato' Ir. Ahmad Murad bin Omar (Bersara) (Mekanikal)
4. Dato' Ir. Fong Tian Yong (Awam)
5. Prof. Ir. Dr. Rozita binti Yusoff (Kimia)
6. Ir. Dr. Zuhairi bin Abdul Hamid (Awam)
7. Ir. Dr. Sherliza binti Zaini Sooria (Awam)
8. Ir. Abdul Razak bin Yakob (Petroleum)
9. Ir. Muhammad Muzammil bin Md Haniffa (Elektrikal)
10. Ir. Rusnida binti Talib (Awam)
11. Puan Nur Hanim binti Mohd Muhili

Terma Rujukan:

- Mempromosikan aktiviti LJM dan keputusan Lembaga yang berkaitan melalui media massa.
- Menyelaras, mempromosi dan bekerjasama dengan Jawatankuasa LJM yang berkaitan dalam menjelaskan peranan dan fungsi Lembaga termasuk penganjuran acara utama tahunan LJM.
- Menjalin dan memupuk hubungan rapat dengan semua pihak berkepentingan.
- Merancang dan mengurus penerbitan LJM, bahan publisiti, risalah maklumat, kenyataan media, ucapan serta penerbitan lain yang berkaitan.
- Mengurus perkhidmatan pelanggan / maklum balas LJM melalui Sistem Pengurusan Perkhidmatan Pelanggan (CSMS).
- Mengurus maklumat di media sosial LJM.
- Mengurus Repositori Maklumat LJM.
- Memperkukuh hubungan dengan pihak berkepentingan melalui program Tanggungjawab Sosial Korporat (CSR).
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

CORPORATE COMMUNICATION COMMITTEE

Members:

1. Ir. Fam Yew Hin (Mechanical) (Chairman)
2. Ir. Mohd Khir bin Muhammad (Aeronautical) (Alternate Chairman)
3. First Admiral Dato' Ir. Ahmad Murad bin Omar (Retired) (Mechanical)
4. Dato' Ir. Fong Tian Yong (Civil)
5. Prof. Ir. Dr. Rozita binti Yusoff (Chemical)
6. Ir. Dr. Zuhairi bin Abdul Hamid (Civil)
7. Ir. Dr. Sherliza binti Zaini Sooria (Civil)
8. Ir. Abdul Razak bin Yakob (Petroleum)
9. Ir. Muhammad Muzammil bin Md Haniffa (Electrical)
10. Ir. Rusnida binti Talib (Civil)
11. Puan Nur Hanim binti Mohd Muhili

Terms of Reference:

- Publicise BEM activities and relevant Board's decisions through mass media.
- Co-ordinate, promote and collaborate with relevant BEM Committees on the role and functions of the Board including organising BEM major regular events.
- Maintain and promote close liaison with all stakeholders.
- Plan and manage BEM publication, publicity materials, information booklets, media releases and speeches and other related publication.
- Manage BEM customer service/feedback using Customer Service Management System (CSMS).
- Manage information on BEM social media.
- Manage BEM Information Repository.
- Enhance with relevant stakeholders through Corporate Social Responsibility (CSR).
- Responsible to operationalise any policies or tasks determined by the Board.

JAWATANKUASA KUALITI**Ahli:**

1. Ir. Mohd Khir bin Muhammad (Aeronautikal) (Pengerusi)
2. Ir. Fam Yew Hin (Mekanikal) (Pengerusi Gantian)
3. Prof. Ir. Dr. Abd Rahim bin Abu Talib (Aeronautikal)
4. Ir. Dr. Nor Azhar bin Mohd Arif (Elektronik)
5. Ir. Gopal Narian Kutty (Mekanikal)
6. Ir. Mohd Rasid bin Osman (Pembuatan)
7. Ir. Tajul Ariffin bin Mohamed Nori (Mekanikal)
8. Ir. Mukhzani bin Abd Latif (Awam)
9. Ir. Abdul Rahman bin Bahasa (Elektrikal)
10. Assoc. Prof. Dr. Abd Rahman bin Abdul Rahim (Mekanikal)

Terma Rujukan:

- Memastikan Sistem Pengurusan Kualiti (QMS) Lembaga dilaksanakan selaras dengan objektif kualiti yang digariskan dalam Manual Kualiti.
- Menambah baik QMS Lembaga melalui aktiviti penambahbaikan berterusan.
- Menyemak dokumen QMS Lembaga sekurang-kurangnya sekali setahun.
- Menjalankan peranan sebagai Jawatankuasa Kajian Pengurusan.
- Menyemak prestasi keseluruhan QMS Lembaga dan mengemukakan syor kepada Lembaga bagi penambahbaikan QMS yang lebih berkesan.
- Memimpin pelaksanaan Pelan Strategik LJM termasuk menyemak dan memantau kemajuannya.
- Bertanggungjawab melaksanakan sebarang dasar atau tugas yang ditetapkan oleh Lembaga.

QUALITY COMMITTEE**Members:**

1. Ir. Mohd Khir bin Muhammad (Aeronautical) (Chairman)
2. Ir. Fam Yew Hin (Mechanical) (Alternate Chairman)
3. Prof. Ir. Dr. Abd Rahim bin Abu Talib (Aeronautical)
4. Ir. Dr. Nor Azhar bin Mohd Arif (Electronic)
5. Ir. Gopal Narian Kutty (Mechanical)
6. Ir. Mohd Rasid bin Osman (Manufacturing)
7. Ir. Tajul Ariffin bin Mohamed Nori (Mechanical)
8. Ir. Mukhzani bin Abd Latif (Civil)
9. Ir. Abdul Rahman bin Bahasa (Electrical)
10. Assoc. Prof. Dr. Abd Rahman bin Abdul Rahim (Mechanical)

Terms of Reference:

- Ensure the Board's QMS is implemented as per the quality objectives in the Quality Manual.
- Enhance the Board's QMS through continual improvement activities.
- Review Board's QMS documents at least once a year.
- Undertake the role of Management Review Committee.
- Review the overall performance of the Board's QMS and make recommendations to the Board for effective enhancement of the QMS.
- Lead the implementation of BEM Strategic Plan including reviewing and monitoring its progress.
- Responsible to operationalise any policies or tasks determined by the Board.

LAPORAN TAHUNAN 2024

ANNUAL REPORT



KEMAJUAN PELAN STRATEGIK LJM TAHUN 2024

PROGRESS OF BEM STRAETGIC PLAN YEAR 2024

KEMAJUAN PELAN STRATEGIK LEMBAGA JURUTERA MALAYSIA TAHUN 2024

PROGRESS OF BEM STRATEGIC PLAN YEAR 2024

RINGKASAN EKSEKUTIF

Pelan Strategik 2021 – 2025 ini mula dirangka di Bukit Tinggi, Pahang dengan matlamat untuk memacu BEM menjadi badan kawal selia yang terkemuka dan berwibawa.

Pelan Strategik ini dibangunkan dengan penglibatan Ahli-ahli Lembaga dan wakil-wakil jawatankuasa LJM. Analisis SWOT digunakan dalam merencana dan menentukan lima (5) strategi tematik dan inisiatif masing-masing yang perlu dilaksanakan. Inisiatif-inisiatif yang telah dipersetujui merangkumi fungsi-fungsi LJM seperti yang digariskan oleh Akta Pendaftaran Jurutera 1967 (Pindaan 2015) yang di antaranya adalah bagi mengawal selia perkhidmatan kejuruteraan dalam memastikan keselamatan awam.

Pelan Strategik ini juga merangkumi inisiatif-inisiatif yang akan membantu LJM menjadi sebuah badan yang berempati dan mengutamakan kepimpinan fraterniti kejuruteraan.

Lima strategi tematik yang merangkumi inisiatif, langkah-langkah, aktiviti-aktiviti dan garis masa telah dirangka bagi:

- menambah bilangan Orang Berdaftar; Jurutera, Teknologis Kejuruteraan serta Juruteknik Kejuruteraan.
- Memastikan semua program pendidikan kejuruteraan, teknologi kejuruteraan dan juruteknik kejuruteraan di Malaysia diakreditasi oleh LJM sekaligus mendapat pengiktirafan Washington Accord, Sydney Accord dan Dublin Accord
- Memastikan syarikat Amalan Perunding Kejuruteraan ditadbir urus yang baik.
- Orang Berdaftar mempunyai ketegasan dalam kepimpinan di dalam dan luar negara, serta
- mendorong agenda penglibatan LJM dan melaksanakan fungsinya untuk mencapai tahap yang lebih tinggi.

Pelan Strategik lima tahun ini diselia oleh Jawatankuasa Kualiti and disokong oleh Jawatankuasa Kerja Pelan Strategik dan Jawatankuasa Bersama lima strategi tematik .

EXECUTIVE SUMMARY

The Strategic Plan 2021 – 2025 was initiated at Bukit Tinggi, Pahang, with the aim to propel BEM to be a prominent and authoritative regulatory body.

Board members and representatives from all BEM's committees were involved in the development of the Strategic Plan. SWOT Analysis was conducted prior to ascertaining the five (5) thematic strategies and their respective initiatives to be undertaken. The initiatives agreed upon were mostly within the functions of the BEM, as outlined by the Registration of Engineers Act 1967 Amendment 2015 (REA), which are to regulate engineering services in ensuring public safety.

The Strategic Plan also included initiatives that would push for the BEM to be an empathised body and asserting the leadership of the engineering fraternity.

Five thematic strategies with initiatives, measures, activities, timelines were developed to deliver the following substantial outcomes:

- to increase significantly the number of registered persons; engineers, engineering technologists and engineering technicians.
- Getting all engineering, engineering technology and engineering technician education programmes in Malaysia to be accredited by BEM and thus receiving the recognition of Washington, Sydney and Dublin Accords
- having Engineering Consultancy Practices with good governance.
- registered persons asserting leadership positions both nationally and internationally, and
- thrusting the BEM's engagement agenda and delivering of its functions to reach greater heights.

The five-year Strategic Plan is overseen by the Quality Committee and supported by the Working Group on Strategic Plan and a Joint Committee of the five thematic strategies.

Setiap strategi bertema ini diselaraskan oleh Jawatankuasa LJM dengan bilangan inisiatif yang signifikan yang berkaitan dengan terma rujukannya. Lembaga dalam mesyuaratnya pada 13.10.2020 telah meluluskan pelaksanaan Pelan Strategik ini dengan kajian semula suku tahunan. Perubahan kepada langkah-langkah boleh diambil semasa semakan tahunan perancangan.

Each thematic strategy is coordinated by an appropriate BEM committee with significant number of initiatives related to its term of reference. The Board at its 343rd meeting on 13.10.2020 had approved the implementation of the Strategic Plan with a quarterly review to be undertaken. Changes to the measures may be undertaken at the annual review of the Plan.

KEMAJUAN DAN PENCAPAIAN TAHUN 2024

BEM mempunyai visi yang jelas untuk diiktiraf sebagai badan berwibawa bertaraf antarabangsa yang mengawal selia amalan kejuruteraan di Malaysia. Ia juga telah memetakan Pelan Strategik BEM (2021-2025) dengan menekankan pemacu kecemerlangan dan kecekapan kejuruteraan di kalangan orang yang berdaftar.

PROGRESS AND ACHIEVEMENT FOR YEAR 2024

BEM has a clear vision to be recognized as an authoritative body of international standing that regulates the engineering practice in Malaysia. It has also mapped out the BEM Strategic Plan (2021-2025) with underscored the drive for engineering excellence and competence among its registered persons.

Jadual berikut menggariskan Pelan Strategik ini dan kemajuan serta pencapaiannya bagi tahun 2024:

The following table outline this Strategic Plan and its progress and achievements for the year 2024:



TEMA 1: MENINGKATKAN NILAI PROFESION KEJURUTERAAN	THEME 1: ENHANCE THE VALUE OF THE ENGINEERING PROFESSION
Strategi Mempromosi penyampaian perkhidmatan kejuruteraan dalam Rantaian Nilai Global Deskripsi Meningkatkan nilai profesion kejuruteraan melalui strategi mempromosikan penyampaian perkhidmatan kejuruteraan dalam rantaian global. Strategi ini bermatlamat untuk mempertingkatkan tahap kualiti Orang berdaftar dan entiti kejuruteraan ke peringkat antarabangsa dan menjejaki prestasi mereka menggunakan pangkalan data dan pengurusan pengetahuan. Sehubungan itu, galakan promosi kepakaran kejuruteraan pada peringkat global adalah amat penting. Penglibatan Orang berdaftar di peringkat global dimanfaatkan apabila mereka memenuhi standard akreditasi EAC dan ETAC pada peringkat kemasukan dan mempunyai kelayakan profesional di peringkat antarabangsa. Inisiatif T1.1 Meningkatkan tahap Pendidikan kejuruteraan, latihan dan pembangunan kemahiran bagi memenuhi harapan pemegang taruh. T1.2 Membangunkan pangkalan data pakar kejuruteraan yang berperanan sebagai penyedia khidmat nasihat dan perunding di peringkat kebangsaan dan antarabangsa. T1.3 Melaksanakan program outreach berkaitan peranan dan fungsi LJM bersama dengan pemegang taruh. T1.4 Mempromosikan pendaftaran profesional bagi mencapai tahap negara maju. T1.5 Mematuhi amalan terbaik dalam kalangan ahli profesional pada peringkat antarabangsa. Hasil Jangkaan Dikenali di platform antarabangsa secara individu dan organisasi.	Strategy Promote delivery of engineering services to tap into Global Value Chain Description Enhancing the value of engineering profession through a strategy; <i>promoting delivery of engineering services to tap into Global Value</i>, is aimed to enhance further the standard of registered persons and engineering entities to international level and tracking their performance using database and knowledge management. Ramping up the promotion of engineering experts and the engineering entities at the global level is thus inevitable. The global involvement of registered persons is leveraged through them meeting the EAC and ETAC accreditation standards at the entry level and having qualified professionally at the international level. Initiatives T1.1 Raise the standard of engineering education, training and skill development to meet stakeholder expectations T1.2 Develop databases of engineering experts for the purpose of national and international advisory and consultancy services T1.3 Conduct outreach program with all stakeholders on the roles and function of BEM T1.4 Promote professional registration to meet developed nation status T1.5 Conform to international best practices among professionals Expected Outcome Visible at international platform (Individually and Organisations)

TEMA 1: MENINGKATKAN NILAI PROFESION KEJURUTERAAN	THEME 1: ENHANCE THE VALUE OF THE ENGINEERING PROFESSION
Kemajuan sehingga 2024 1. Sebanyak 40 artikel telah diterima daripada 68 artikel yang disasarkan untuk buku <i>Malaysia's Landmark Engineering Projects</i> yang dijadualkan diterbitkan pada tahun 2025. 2. Menamatkan Program Kepimpinan dan Pengurusan sulung dengan kerjasama Universiti Utara Malaysia (UUM) yang melibatkan 29 peserta. 3. Menganjurkan Konvensyen LJM ke-3 tahun 2024 di Dewan Bankuet Menara FELDA, Kuala Lumpur. • 458 jumlah peserta. • Majlis Graduasi untuk 29 peserta Program Kepimpinan dan Pengurusan LJM bersama UUM. • Majlis Penganugerahan kepada 155 Jurutera Profesional (PE) baharu. • Penceramah utama – Em Prof. Elizabeth Taylor (Pengerusi IEA Governing Group). 4. Menilai semula piawaian akreditasi dan penilaian profesional secara berkala. 5. Menandatangani 5 Memorandum Persefahaman (MoU) baharu dan memperbaharui 4 MoU bagi pendaftaran e-bulk dengan Institusi Pengajian Tinggi (IHL). • 37 daripada 54 IHL telah menandatangani MoU e-bulk dengan LJM. 6. Menganjurkan Registration Drive bersama RTM, DRB-HICOM, Petronas Research Sdn Bhd, BOMBA, Isuzu Hicom Malaysia Sdn Bhd dan Perodua. 7. Meneruskan jalinan kerjasama dengan FIDIC dan MATRADE berkaitan amalan terbaik serta peluang perkhidmatan kejuruteraan antarabangsa. 8. Memulakan penanda aras (benchmarking) terhadap keperluan CPD LJM.	Progress up to 2024 1. 40 articles had been accepted out of expected 68 articles for the Malaysia's Landmark Engineering Projects book which is to be published in year 2025. 2. Completed the inaugural Leadership and Management Programme in collaboration with UUM with 29 participants. 3. Conducted the 3rd BEM Convention 2024 at Dewan Bankuet Menara FELDA, Kuala Lumpur. • 458 total participants. • Graduation Ceremony to 29 participants in BEM Leadership and Management Programme with UUM. • Conferment Ceremony to 155 new PE. • Keynote speaker - Em Prof. Elizabeth Taylor (IEA Governing Group Chair) 4. Reviewed accreditation and professional assessment standards at regular interval. 5. Signed 5 new MoUs and 4 MoU renewals on e-bulk registration with IHLs. • 37/54 IHLs have signed e-bulk MoU with BEM. 6. Organised Registration Drive with RTM, DRB-HICOM, Petronas Research Sdn Bhd, BOMBA, Isuzu Hicom Malaysia Sdn Bhd and Perodua. 7. Continued engagement with FIDIC and MATRADE on best practices and international engineering services opportunities. 8. Initiated benchmarking of BEM CPD requirements.

TEMA 2 :	MEMELIHARA KESELAMATAN, KESIHATAN DAN KEPENTINGAN AWAM	THEME 2 :	SAFEGUARD PUBLIC SAFETY, HEALTH & INTEREST
Strategi	Meningkatkan tahap integriti, kebertanggungjawaban dan ketelusan dalam fraternity kejuruteraan	Strategy	Promote the highest level of integrity, responsibility and accountability within the engineering fraternity
Deskripsi	Strategi untuk meningkatkan nilai teras, integriti, kebertanggungjawaban dan ketelusan LJM, dan menerapkannya ke dalam fraternity kejuruteraan; satu langkah penting bagi memelihara keselamatan, kesihatan dan kepentingan awam. Matlamat ini dapat dicapai melalui kerjasama di antara organisasi berkaitan dengan keselamatan, kesihatan dan persekitaran, di samping melalui galakan amalan terbaik dan tadbir urus cemerlang dalam bidang ini.	Description	A strategy to promote BEM's core values, integrity, responsibility and accountability, and internalising them within the engineering fraternity, is pivotal to <i>safeguarding public safety health and interest</i> . This would be undertaken through collaborative activities with organisations responsible directly on safety, health and environment and also through promoting industry best practices and good governance in these areas.
Inisiatif	T2.1 Bekerjasama dengan pihak berkuasa dan agensi tempatan dan antarabangsa bagi membangunkan/mempromosikan amalan terbaik keselamatan, kesihatan dan kemampunan alam sekitar; serta menyebarkan garis panduan melalui saluran yang berkesan di Malaysia. T2.2 Bekerjasama dengan Institut Integriti Malaysia atau mana-mana organisasi yang relevan bagi membangunkan garis panduan etika profesional dan integriti bagi profesion kejuruteraan dan menyebarkannya kepada fraternity kejuruteraan melalui saluran yang berkesan di Malaysia. T2.3 Membangunkan kriteria dan proses bagi menganugerahi mana-mana organisasi yang mengamalkan Keselamatan, Kesihatan dan Alam Sekitar (SHE) terbaik secara tahunan bagi mengukuhkan tingkah laku positif organisasi.	Initiatives	T2.1 Collaborate with relevant local and international authorities and agencies to develop/promote best practices for safety, health and environmental sustainability and disseminate the guidelines via effective channels within Malaysia T2.2 Collaborate with Malaysian Integrity Institute or other relevant bodies to develop/promote guidelines on professional ethics and integrity for Engineering Profession and disseminate them to all engineering fraternity via effective channels within Malaysia T2.3 Develop criteria and process for rewarding organizations that adopt best Safety, Health & Environment (SHE) practices for yearly reward to reinforce positive organizational behaviours.
Hasil Jangkaan	Amalan integriti bagi memacu anjakan budaya Keselamatan, Kesihatan dan Alam Sekitar (SHE).	Expected Outcome	Adoption integrity pledge to drive a shift in Safety, Health & Environment (SHE) culture
Kemajuan sehingga 2024	1. Menganjurkan 5 webinar, 4 bengkel dan 3 sesi bual bicara semasa Konvensyen LJM 2024. 2. Menganjurkan 4 sesi bual bicara semasa Siri Jerayawara 2024 di Sabah dan Sarawak yang bertemakan integriti dan OSCHIM.	Progress up to 2024	1. Conducted 5 webinars, 4 workshops and 3 talks at BEM Convention 2024 2. Conducted 4 talks at BEM Roadshow 2024 on integrity and OSCHIM at Sabah and Sarawak.

TEMA 3 : PENEGASAN KEPIMPINAN KEJURUTERAAN DI PERINGKAT KEBANGSAAN DAN ANTARABANGSA	THEME 3 : ASSERT LEADERSHIP OF ENGINEERING PROFESSION NATIONALLY & INTERNATIONALLY
Strategi Memperkasakan profesional kejuruteraan bagi mencapai peranan kepimpinan dalam industri.	Strategy Empower engineering professionals to gain industry leadership role.
Deskripsi Penegasan kepimpinan profesion kejuruteraan melalui strategi pemerkasaan profesional kejuruteraan bagi memperoleh peranan kepimpinan dalam industri, memerlukan pendekatan proaktif bagi melonjakkan profesional kejuruteraan mencapai kedudukan pemimpin di peringkat peringkat tempatan dan antarabangsa. Orang berdaftar akan dipandu untuk melibatkan diri secara aktif dalam menetapkan polisi, hala tuju dan agenda kejuruteraan.	Description Asserting the leadership of the engineering profession through a strategy; <i>empowering engineering professionals to gain industry leadership role</i> , calls for a proactive approach to thrust engineering personnel to leadership positions at national and international levels. Registered persons would be ushered to be actively involved in determining policies, directions and engineering agendas.
Inisiatif T3.1 Mengukuhkan pendidikan, latihan bagi memastikan kecekapan (teknikal dan bukan teknikal) serta mengetuai perikatan kejuruteraan dan pengurusan bakat/ kemahiran. T3.2 Menyediakan platform bagi kerjasama industri untuk meningkatkan rangkaian dan mobiliti para jurutera profesional. T3.3 Bekerjasama dengan kerajaan dan industri bagi meningkatkan kepimpinan dalam kalangan jurutera dengan penekanan dalam syarikat yang berkaitan dengan kejuruteraan.	Initiatives T3.1 Strengthen education, training, ensure competency (technical and non- technical) and take the lead in engineering alliances and talent management T3.2 Create platforms for industry collaboration to enhance networking and mobility of professional engineer T3.3 Engage with Government and industry to promote leadership of engineers is asserted in engineering related companies
Hasil Jangkaan Peningkatan 10 kali ganda jurutera memegang jawatan kepimpinan di peringkat nasional dan antarabangsa.	Expected Outcome 10-fold increase in engineers take on leadership positions nationally and internationally.
Kemajuan sehingga 2024 1. Menganugerahkan Anugerah BEM semasa Konvensyen LJM 2024 dan HPTN 2023 masing-masing. • Anugerah Tokoh Kejuruteraan Negara 2024 (Kali ketiga) • Anugerah Tokoh Muda Kejuruteraan Negara 2024 (Kali ketiga) • Anugerah BEM-ECP Safety, Health and Environmental Excellence (BESHEXA) 2024 (Kali kedua) • Anugerah Kecemerlangan Inovasi Kejuruteraan 2024 (kali kedua) 2. Menjalankan sesi libat urus semasa Konvensyen LJM 2024 bertemakan "Empowering Engineering" 3. Meneruskan promosi jurutera profesional yang disenaraikan dalam buku Who's Who in Engineering, Malaysia (Edisi 1) di pelbagai mesyuarat dan sesi libat urus. Telah memulakan penyediaan Volume 3 (Edisi 1) yang merangkumi 1,000 jurutera.	Progress up to 2024 1. Conferred BEM Awards during BEM Awards & Appreciation Dinner in conjunction with BEM Convention 2024. • Anugerah Tokoh Kejuruteraan Negara 2024 (3rd time) • Anugerah Tokoh Muda Kejuruteraan Negara 2024 (3rd time) • BEM-ECP Safety, Health and Environmental Excellence Award (BESHEXA) 2024 (2nd time) • Anugerah Kecemerlangan Inovasi Kejuruteraan 2024 (2nd time) 2. Conducted engagement sessions during BEM Convention 2024 on the theme 'Empowering Engineering'. 3. Continued promoting qualified engineers as listed in Who's Who in Engineering, Malaysia (Edition 1) book at various meetings and engagements. Initiated Volume 3 (Edition 1) of 1,000 engineers.

TEMA 4 : MENINGKATKAN IMEJ DAN PENJENAMAAN		THEME 4 : ENHANCE PUBLIC IMAGE & BRANDING	
Strategi	Meningkatkan penglibatan dengan pemegang taruh bagi meningkatkan martabat profesion kejuruteraan.	Strategy	Enhance engagement with stakeholders to raise stature of engineering profession
Deskripsi	Meningkatkan imej dan jenama BEM melalui strategi; mengukuhkan penglibatan dengan pemegang taruh demi meningkatkan martabat profesion kejuruteraan sekaligus memantapkan LJM sebagai badan pengawalseliaan berprinsip dan berempati. Menguruskan persepsi menerusi komunikasi yang efektif dan menyediakan maklumat yang cepat dan tepat adalah asas penting.	Description	Enhancing BEM's public image and brand via a strategy; Boosting engagement with stakeholders to raise the stature of engineering profession, would strengthen BEM as a principled and empathised regulatory body. Managing perceptions through effective communication and providing prompt and accurate information are thus fundamental.
Inisiatif	T4.1 Meningkatkan jenama LJM	Initiative	T4.1 Enhance BEM brand
Hasil Jangkaan	Transformasi bagi menjadi pihak berkuasa yang berprinsip dan empati	Expected Outcome	Transformation to become principled and empathy authority
Kemajuan sehingga 2024	1. Meneruskan pelaksanaan Customer Service Management System (CSMS). 2. Penjenamaan dan imej LJM dalam kalangan orang berdaftar menunjukkan persepsi yang baik dengan skor 7.9/10 berdasarkan tinjauan tahun 2023. Tinjauan seterusnya akan dijalankan pada tahun 2025. 3. RTM merupakan rakan media utama dalam mempromosikan jenama dan aktiviti LJM.	Progress up to 2024	1. Continued implementing Customer Service Management System. 2. Branding and image of BEM amongst registered person, showed good perception with a score of 7.9/10 based on 2023 survey. Next survey will be conducted in 2025. 3. RTM is the main media partner to promote BEM brand and activities.

TEMA 5 :	MENINGKATKAN KEJURUTERAAN TVET	THEME 5 :	PROMOTE ENGINEERING TVET
Strategi	Menerajui dalam mempromosikan teknologis kejuruteraan dan juruteknik kejuruteraan.	Strategy	Lead in promoting engineering technologists and engineering technicians
Deskripsi	Menguukhkan teknologi kejuruteraan, satu domain baharu dalam fraterniti kejuruteraan, adalah penting bagi menggalakkan pembangunan teknologis kejuruteraan dan juruteknik kejuruteraan. Penglibatan secukupnya dengan pelbagai pemegang taruh adalah sangat penting bagi memberi pengiktirafan sewajarnya ke atas peranan melengkapkan teknologis kejuruteraan; di samping peranan sokongan penting juruteknik kejuruteraan seperti yang termaktub dalam REA.	Description	Strengthening engineering technology, a new domain within the Engineering fraternity, is essential to promote the development of engineering technologists and engineering technicians. Considerable engagement is crucial with the various stakeholders in order to give due recognition to the complementary roles of engineering technologists and vital supporting roles of engineering technicians, as promulgated in the REA.
Inisiatif	T5.1 Melaksanakan aktiviti-aktiviti outreach terhadap penyedia TVET (institut), pemilik (kementerian) dan pemegang taruh lain. T5.2 Meningkatkan kerjasama dan perkongsian dengan pihak berkaitan lain melalui memorandum persefahaman dengan organisasi seperti MBOT, JPK-NOSS, MYSET, IEM, TAM dan COWAM. T5.3 Membangunkan standard kemahiran kejuruteraan TVET. T5.4 Menjalankan penyelidikan dan kajian mengenai TVET berkaitan dengan kejuruteraan.	Initiatives	T5.1 Implement outreach activities to engineering TVET providers (institutes), owners (ministries) and other stakeholders T5.2 Enhance collaboration and partnership with other associated parties such as MoU with organizations like MBOT, JPK-NOSS, MYSET, IEM, TAM and COWAM T5.3 Establish engineering TVET competency standard. T5.4 Conduct research and studies on engineering TVET, with respect to the engineering team.
Hasil Jangkaan	80% IHL mempunyai program yang diakreditasi oleh ETAC dan peningkatan pendaftaran lima (5) kali ganda teknologis kejuruteraan dan pemeriksa tapak.	Expected Outcome	80% of IHL having accredited programs with ETAC and 5 fold increase registration of Engineering Technologist and Inspector of Works
Kemajuan sehingga 2024	2 geran penyelidikan dianugerahkan: Research 1 title – “Prospects for Engineering Technology & Technician Graduates in Malaysia” Research 2 title – “Prospects and Best Practices of Engineering Technologist and Technician Education and Career Development - Mengadakan sesi libat urus dengan JPK dan JPPKK berhubung TVET kejuruteraan bagi tujuan pengiktirafan kesetaraan substansial. - Mengadakan sesi libat urus dengan institusi pengajian tinggi berkaitan TVET kejuruteraan termasuk di Sabah dan Sarawak.	Progress up to 2024	2 research grants were awarded – Research 1 title – “Prospects for Engineering Technology & Technician Graduates in Malaysia” Research 2 title – “Prospects and Best Practices of Engineering Technologist and Technician Education and Career Development” - Conducted engagement sessions with JPK and JPPKK on engineering TVET for purpose of substantial equivalency recognition. - Conducted engagements with relevant IHLs on engineering TVET including in Sabah and Sarawak.

MAJLIS AKREDITASI KEJURUTERAAN 2024

Memastikan Pendidikan Kejuruteraan Berkualiti

ENGINEERING ACCREDITATION COUNCIL 2024

Ensuring Quality Engineering Education

LATAR BELAKANG EAC

MAJLIS AKREDITASI KEJURUTERAAN (EAC)

Majlis Akreditasi Kejuruteraan (EAC) merupakan badan yang ditugaskan oleh Lembaga Jurutera Malaysia (LJM) untuk pengakreditasi program ijazah sarjana muda kejuruteraan. EAC telah ditubuhkan pada tahun 2000, yang terdiri daripada wakil-wakil dari LJM, Institusi Jurutera Malaysia (IEM), Agensi Kelayakan Malaysia (MQA) dan Jabatan Perkhidmatan Awam (JPA)

EAC memastikan kualiti graduan program kejuruteraan dapat dipertingkatkan melalui proses akreditasi. Kini setakat 31 Disember 2024, terdapat 374 program kejuruteraan yang diiktiraf oleh EAC dan tersenarai dalam Daftar EAC dan MQA.

PENGIKTIRAFAN ANTARABANGSA DAN IMPAK GLOBAL

Program kejuruteraan yang diakreditasi oleh EAC kini ditanda aras kepada piawaian antarabangsa. LJM telah menjadi ahli penuh Washington Accord (WA) di bawah naungan International Engineering Alliance (IEA) semenjak dari tahun 2009. Penilaian berkala pertama pada tahun 2015 dan kedua pada tahun 2023 telah melayakkan Malaysia untuk terus menjadi penandatangan WA selama enam (6) tahun berturut turut. Melalui pengiktirafan ini, program kejuruteraan yang diakreditasi EAC kini diiktiraf oleh 24 penandatangan WA.

Kualiti pendidikan kejuruteraan dan sistem pendidikan negara adalah sama taraf dan sejajar dengan negara maju di dunia. Pelaksanaan proses akreditasi EAC dan penambahbaikan yang berterusan telah berjaya meyakinkan serta menarik pelaburan luar dalam pendidikan kejuruteraan di Malaysia. Kini banyak universiti antarabangsa membuka kampus cawangan di Malaysia. Ini merangsang pertumbuhan ekonomi Malaysia dan menjadikan negara ini sebagai hab pendidikan kejuruteraan antarabangsa yang mapan.

ABOUT EAC

ENGINEERING ACCREDITATION COUNCIL (EAC)

The Engineering Accreditation Council (EAC) is the body delegated by the Board of Engineers Malaysia (BEM) for accrediting engineering bachelor degree programmes. Established in the year 2000, the EAC comprises representatives from the BEM, The Institution of Engineers Malaysia (IEM), the Malaysian Qualifications Agency (MQA), and the Public Services Department (PSD).

The EAC ensures that the quality of engineering degree graduates is enhanced through the accreditation process. As of December 31, 2024, a total of 374 engineering programmes have been accredited by the EAC and are registered under the EAC and MQA Registers.

INTERNATIONALLY RECOGNISED AND GLOBAL IMPACT

All EAC accredited engineering degree qualifications are benchmarked to international standards. Malaysia became a full signatory to the Washington Accord (WA) under the administration of the International Engineering Alliance (IEA) in 2009. Subsequent periodic reviews in 2015 and 2023 have qualified Malaysia to maintain its WA signatory status for another six (6) consecutive years. Consequently, EAC-accredited engineering programmes are now recognised by 24 WA signatory member countries.

This indicates that the quality of engineering education, as well as our national education system in Malaysia, is on par with that of developed countries worldwide. The effective implementation of EAC accreditation and continuous quality improvement processes has successfully attracted external investors to invest in engineering education in Malaysia. This is evident in the establishment of branch campuses by numerous renowned international universities in Malaysia. Not only does this stimulate national economic growth, but it also establishes Malaysia as a sustainable global engineering education hub.

PENCAPAIAN EAC

Pada tahun 2024, sebanyak 31 sesi penglibatan bersama pemegang taruh dan pihak yang berkepentingan telah dilaksanakan, yang mana terdapat 7 sesi dengan pihak luar negara. LJM telah memainkan peranan yang penting dalam kesemua penglibatannya di peringkat antarabangsa.

Pelantikan dari IEA membuktikan pengiktirafan dan keyakinan badan antarabangsa itu terhadap keupayaan wakil LJM.

Pencapaian EAC 2024 yang berimpak besar ialah sumbangan yang dibuat oleh Malaysia dalam urusan menyemak pembaharuan keanggotaan pendatangan dalam WA. Seorang wakil EAC telah dilantik oleh IEA sebagai Panel Penilai WA untuk Engineering Council UK (ECUK). Ini merupakan tugas semakan berkala keanggotaan ECUK dan PTC dalam WA. Penilaian ke ECUK berjalan di bulan Januari 2024.

Tugasan sebagai mentor IEA sedang berjalan pada anggota sementara WA seperti BAETE-IEB Bangladesh (semenjak 2016), COREN Nigeria (semenjak 2018) dan yang terkini ialah EBK Kenya (semenjak 2020) di sepanjang tahun 2023. Bangladesh telah diterima sebagai penandatangan penuh Washington Accord pada Mesyuarat IEA yang diadakan di India pada Jun 2024.

Wakil EAC telah dijemput dan dilantik sebagai penceramah jemputan dan ucap utama pada sesi perkongsian di dalam dan di luar negara. Sebahagian dari sesi tersebut adalah seperti yang tersenarai di bawah:

1. Konvensyen LJM 2024 pada 1 hingga 4 Oktober 2024.
2. Konvensyen IEM 2024 pada 18 hingga 21 September 2024.
3. Persidangan Antarabangsa MQA 2024 di Sarawak pada 11 hingga 12 November 2024.
4. Seminar Tripartit (Tiga Pihak) antara Industri, Pusat Latihan dan Pendidikan TVET serta Agensi Kerajaan Tahun 2024 bertajuk "Greater TVET Future Talent: Facing the Changing World of Work" pada 5 Mac 2024.
5. Bengkel Pindaan Akta MQA dan Peraturan-Peraturan Akta MQA pada 5 Oktober 2024.

EAC ACHIEVEMENTS

In 2024, a total of 31 stakeholder engagement sessions were conducted, 7 of which involved foreign parties. BEM has demonstrated and played its role well on the international stage.

The appointment by the IEA demonstrates the international body's recognition and confidence in the ability of BEM's representatives.

The significant achievement of the EAC in 2024, which had a considerable impact, was Malaysia's contribution to the review of the membership renewal of WA signatories. An EAC representative was appointed by the IEA as WA Panel of Assessors for the Engineering Council UK (ECUK). This appointment was part of the periodic review exercises to renew membership in the WA for ECUK. The assessments for ECUK were held in January 2024.

IEA mentoring assignments are ongoing for Provisional WA members such as BAETE-IEB Bangladesh (since 2016), COREN Nigeria (since 2018), and most recently, EBK Kenya (since 2020) throughout 2023. Bangladesh was accepted as a full signatory of the Washington Accord at the IEA Meeting held in India in June 2024.

EAC representatives were invited and appointed as guest speakers and keynote speakers at sharing sessions both domestically and internationally. Some of the sessions are listed below:

1. BEM Convention 2024 from 1 to 4.10.2024
2. IEM Convention 2023 from 18 to 21.9.2024
3. MQA International Conference 2024 in Sarawak from 11 - 12.11.2024
4. Tripartite Seminar between Industry, TVET Training and Education Center and Government Agencies Year 2024 "Greater TVET Future Talent: Facing the Changing World of Work on 5.3.2024
5. Workshop of the MQA Act Amendment and MQA Act Regulations. 5.10.24

Pada tahun 2024, EAC telah mengendalikan sesi perkongsian ilmu dan maklumat bersama IPT dan panel penilai EAC. Perbincangan telah berjaya melahirkan beberapa penyelesaian kepada masalah yang merupakan asas dalam proses akreditasi dan pendidikan kejuruteraan. Sesi perkongsian tersebut adalah seperti berikut:

1. Sesi libat urus antara LJM dengan Institusi Pengajian Tinggi (IPT) berkenaan Standard EAC 2024 pada 9 Oktober 2024.
2. Sesi libat urus antara LJM dengan Panel Penilai EAC berkenaan Standard EAC 2024 pada 25 September 2024

EAC bersama pemegangtaruh penting dalam negara telah menghasilkan keputusan keperluan bertindak untuk menentukan hala tuju pendidikan kejuruteraan dan kualiti graduan. Keahlian dan jawatankuasa yang berkaitan adalah seperti berikut:

1. Ahli Jawatankuasa Tetap Mesyuarat Saringan Awal (MSA) dan Jawatankuasa Pendidikan Tinggi (JKPT), Jabatan Pendidikan Tinggi bagi Sesi 2024–2025.
2. Ahli Kumpulan Kerja Teknikal 3: Kualiti Program, Pelajar dan Institusi di bawah Pasukan Petugas Nasional IPTS untuk Industri bagi Tahun 2024–2025.
3. Kajian Halatuju Program Kejuruteraan di Universiti Awam Malaysia dalam Menangani Cabaran Industri 4.0 pada 15 Januari 2025.
4. Perbincangan Kumpulan Fokus (FGD) mengenai Kajian Pindaan Akta MQA dan Peraturannya pada 21 Mac 2024.

Peranan LJM dalam IEA dan WA adalah sangat penting sebagai pemangkin pembangunan kejuruteraan di Malaysia. LJM telah menerima pengiktirafan di peringkat antarabangsa dan sentiasa mengambil bahagian dengan penglibatan yang aktif dan terus menyumbang dalam aktiviti pendidikan dan keprofesionalan.

Malaysia sentiasa bertekad untuk memenuhi piawaian antarabangsa. EAC telah menubuhkan pelan tindakan strategik dan sasaran untuk memastikan EAC memenuhi kehendak piawaian ini.

In 2024, the EAC conducted knowledge and information sharing sessions with IHL and the EAC evaluation panel members. These discussions have resulted in numerous solutions to issues fundamental to accreditation and engineering education processes. The sharing sessions are outlined as follows:

1. An engagement session between BEM with Institutions of Higher Learning (IHL) Regarding the EAC Standard 2024, 9.10.2024
2. An engagement session between BEM with the EAC Evaluation Panel regarding the EAC Standard 2024, 25.9.2024

The EAC, in collaboration with key stakeholders nationwide, has reached a conclusion regarding the imperative to address the direction of engineering education and enhance the quality of graduates. The following list comprises the members of the membership and relevant committees:

1. *Ahli Jawatankuasa Tetap Mesyuarat Saringan Awal (MSA) dan Jawatankuasa Pendidikan Tinggi (JKPT), Jabatan Pendidikan Tinggi, Sesi 2024-2025.*
2. *Member of Technical Working Group 3: Quality of Programme Students and Institutions under the National Task Force of IPTS for the Industry Year 2024-2025*
3. *Study of the Direction of Engineering Programmes in Malaysian Public Universities in Addressing the Challenges of Industry 4.0. 15.01.2025*
4. *Focus Group Discussion (FGD) on the Amendment Study of the MQA Act and its Regulations. 21.3.2024*

The roles of BEM in IEA and WA are paramount to serve as catalysts for engineering development in Malaysia. BEM has received international recognition and always participates with active involvement, aiming to continuously contribute to educational and professional activities.

Malaysia is always determined to keep abreast of international standards and expectations. The EAC has established strategic action plans and targets to ensure that it meets the standard requirements.

KEMAMPAKAN KEWANGAN

EAC kini beroperasi di bawah belanjawannya sendiri yang diperolehi daripada yuran akreditasi yang dibayar oleh Institusi Pengajian Tinggi (IPT) dan sokongan berterusan LJM.

TADBIR URUS DAN STRUKTUR

Jabatan Akreditasi Kejuruteraan (EAD) mengendalikan semua operasi EAC. Pentadbiran EAD terdiri daripada seorang Pengarah, enam (6) Pengarah Bersekutu (AD) yang dilantik mengikut kluster kejuruteraan dan sekretariat.

EAD juga disokong oleh jawatankuasa yang mengawasi pembangunan tahap akreditasi, perubahan budaya berasaskan hasil di IPT, jaminan kualiti dan hal ehwal peringkat antarabangsa.

Pada Julai 2024, Majlis Akreditasi Kejuruteraan (EAC) telah melancarkan Standard Akreditasi Program Kejuruteraan 2024. Perubahan utama dalam standard yang disemak ini adalah penggabungan Graduate Attributes and Professional Competencies (GAPC) terkini di bawah International Engineering Alliance (IEA), selaras dengan standard dan pengiktirafan antarabangsa.

Terdapat dua (2) buah pekeliling yang telah diluluskan oleh EAC bagi meningkatkan kualiti pengajaran kurikulum pendidikan kejuruteraan, iaitu:

1. Circular on Requirement on The Minimum Number of Professional Engineers for Engineering Programme (bertarikh 25.08.2021). Pekeliling ini berkuatkuasa dari 1 Januari 2021. (Semakan kepada pekeliling asal bertarikh 16 Oktober 2017 yang tamat pada 31 Disember 2020)
2. Circular on Teaching Related Engineering Courses by A Nonregistered Person and/or Scientist (bertarikh 25.08.2021). Pekeliling ini berkuatkuasa dari 1 Julai 2021.

FINANCIAL SUSTAINABILITY

EAC is currently operating under its own budget obtained from accreditation fee paid by the Institutions of Higher Learning (IHL) along with continuous support of the BEM.

GOVERNANCE AND STRUCTURE

The operation of EAC is supported by its administrative arm, the Engineering Accreditation Department (EAD). The set up includes a Director, six (6) Associate Directors (AD) appointed according to engineering cluster and a secretariat.

EAD is also supported by a task force and its committees that oversee the development of accreditation standards, the outcome-based culture change at IHL, quality assurance and international affairs.

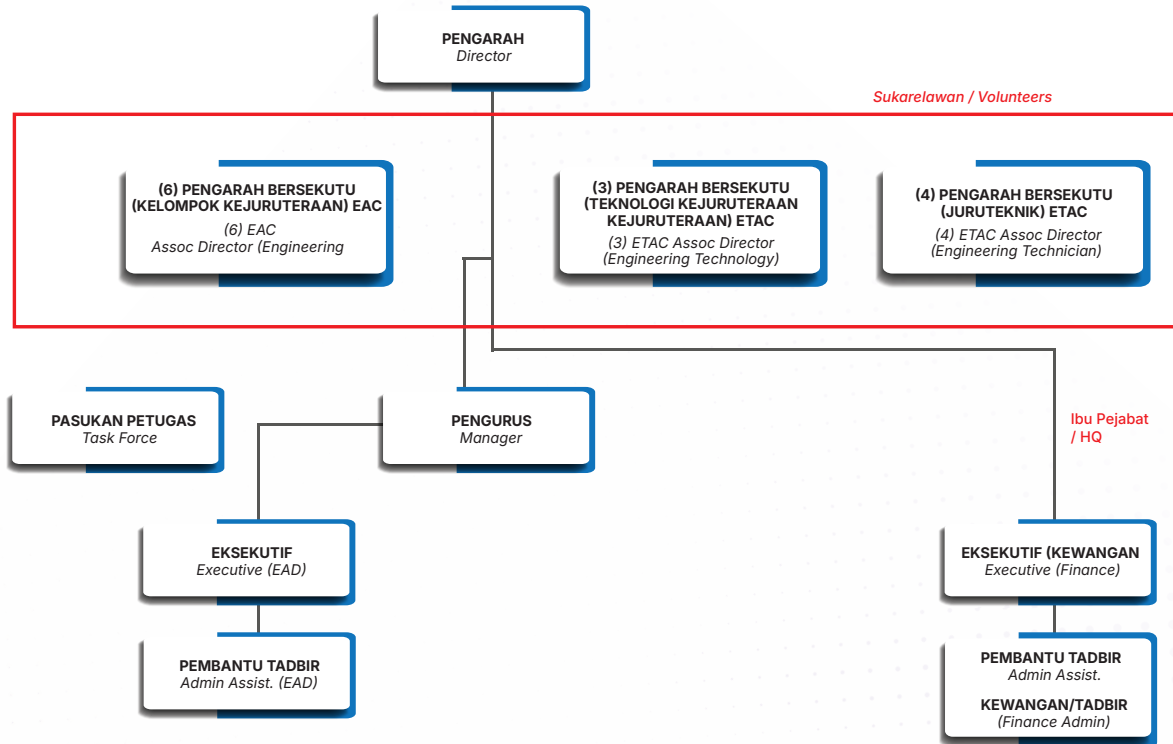
In July 2024, the Engineering Accreditation Council (EAC) launched its Engineering Programme Accreditation Standard 2024. The major change in the revised standard is the incorporation of the latest Graduate Attributes and Professional Competencies (GAPC) under the International Engineering Alliance (IEA), aligning it with international standards and recognition.

There are two (2) circulars that have been approved by the EAC with the aim to improve the quality of teaching and curriculum of the engineering education, namely:

1. Circular on Requirement on The Minimum Number of Professional Engineers for Engineering Programme (dated 25.8.2021). The circular is effective from 1st January 2021. (This is a revision to the circular dated 16 October 2017 which ended on 31 December 2020)
2. Circular on Teaching Related Engineering Courses by A Nonregistered Person and/or Scientist (dated 25.8.2021). This circular is effective from 1st July 2021.

CARTA ORGANISASI EAC & ETAC

EAC & ETAC Organisation Chart



Rajah 1: Carta Organisasi EAC dan ETAC
Figure 1: EAC and ETAC Organisation Chart

LJM

Dato' Indera Ir. Dr. Ahmad Sabirin bin Arshad (Marin)- (Pengerusi)
Dato' Seri Prof. Ir. Dr. Kamal Nasharuddin bin Mustapha (Awam)
Dato' Prof. Ir. Dr. Mohammed Rafiq bin Abdul Kadir (Mekanikal)
Prof. Ir. Dr. K. S. Kannan (Mekanikal)
Ir. Dr. Shahrudin bin Muslimin (Elektrikal)
Laksamana Pertama Dato' Ir. Ahmad Murad bin Omar (Bersara) (Mekanikal)

INDUSTRI

Ir. Azmi bin Osman (Mekanikal)
Dato' Ir. Dr. Goh Teik Cheong (Awam)
Ir. Rafil bin Elyas (Kimia)

IEM

Ir. Fam Yew Hin (Mekanikal) - (Timbalan Pengerusi)
Ir. Juares Rizal bin Abd Hamid (Kimia)
Ir. Chen Harn Shean (Civil)
Tan Sri Dato' Seri Prof. Academician Emeritus Ir. Dr. Chuah Hean Teik (Elektrikal)
Lt. Jen. (B) Dato' Ir. Ismail bin Samion (Mekanikal)
Ir. Mohd Aman bin Haji Idris (Elektrikal)

JPA

1. Dato' Pauzan bin Ahmar
2. Encik Wan Muzani bin Wan Idris (Wakil Ganti)

BEM

Dato' Indera Ir. Dr. Ahmad Sabirin bin Arshad (Marin)- (Chairman)
Dato' Seri Prof. Ir. Dr. Kamal Nasharuddin bin Mustapha (Civil)
Dato' Prof. Ir. Dr. Mohammed Rafiq bin Abdul Kadir (Mechanical)
Prof. Ir. Dr. K. S. Kannan (Mechanical)
Ir. Dr. Shahrudin bin Muslimin (Electrical)
First Admiral Dato' Ir. Ahmad Murad bin Omar (Retired) (Mechanical)

INDUSTRY

Ir. Azmi bin Osman (Mechanical)
Dato' Ir. Dr. Goh Teik Cheong (Civil)
Ir. Rafil bin Elyas (Chemical)

IEM

Ir. Fam Yew Hin (Mechanical)- (Deputy Chairman)
Ir. Juares Rizal bin Abd Hamid (Chemical)
Ir. Chen Harn Shean (Civil)
Tan Sri Dato' Seri Prof. Academician Emeritus Ir. Dr. Chuah Hean Teik (Electrical)
Lt. Jen. (B) Dato' Ir. Ismail bin Samion (Mechanical)
Ir. Mohd Aman bin Haji Idris (Electrical)

JPA

1. Dato' Pauzan bin Ahmar
2. Mr. Wan Muzani bin Wan Idris (Alternate Representative)



Terma Rujukan:

1. Merumus dan mengemas kini dasar serta kriteria akreditasi.
2. Meluluskan garis panduan terperinci dan prosedur operasi bagi tujuan akreditasi.
3. Menyelia semua urusan operasi dan melantik ahli Panel Penilai.
4. Menerima laporan penilaian terhadap program kejuruteraan dan membuat keputusan mengenai penganugerahan akreditasi.
5. Menetapkan dan menyelenggara senarai program kejuruteraan yang diakreditasi.
6. Menangani sebarang aduan atau rayuan berkaitan akreditasi.
7. Menyelia pembangunan dan pelaksanaan akreditasi serta pengiktirafan bersama program dengan negara lain.
8. Memaklumkan kepada Lembaga mengenai aktiviti-aktiviti EAC dan membuat syor kepada Lembaga jika perlu.
9. Memupuk penyebaran perkembangan serta amalan terbaik dalam pendidikan kejuruteraan.
10. Memberi nasihat kepada Lembaga berkenaan kenyataan awam atau representasi yang perlu dibuat berkaitan pendidikan kejuruteraan.
11. Mengadakan sesi perundingan dengan IPT apabila perlu.
12. Mengadakan mesyuarat sekurang-kurangnya enam (6) kali setahun.
13. Bertanggungjawab untuk melaksanakan dasar atau tugas yang ditetapkan oleh Lembaga.

OBJEKTIF AKREDITASI

Objektif akreditasi adalah untuk memastikan graduan daripada program kejuruteraan yang diiktiraf memenuhi keperluan akademik minimum untuk pendaftaran sebagai jurutera siswazah dengan LJM.

Di samping itu, objektif akreditasi adalah untuk memastikan bahawa Peningkatan Kualiti Berterusan (CQI) diamalkan oleh IPT. Akreditasi juga boleh berfungsi sebagai alat penanda aras program kejuruteraan yang ditawarkan oleh IPT di Malaysia.

EAD menguruskan proses permohonan untuk kelulusan dan akreditasi program kejuruteraan. Pengakreditasi adalah secara sukarela; walau bagaimanapun program kejuruteraan perlu diiktiraf bagi membolehkan graduan daripada program- program ini berdaftar dengan LJM.

Terms of Reference:

1. Formulate and update the accreditation policies and criteria.
2. Approve detailed guidelines and operating procedures for accreditation.
3. Oversee all operational arrangements, and appoint members of the Evaluation Panel.
4. Receive evaluation report on engineering programmes, and decide on award of accreditation.
5. Establish and maintain a list of accredited engineering programmes.
6. Respond to any complaints or appeals on accreditation.
7. Oversee the development and operation of accreditation and mutual recognition of programmes with other countries.
8. Inform the Board of the activities of the EAC and where necessary make recommendations to the Board.
9. Foster the dissemination of developments and best practices in engineering education.
10. Advise the Board on public statements or representations that should be made in relation to engineering education.
11. Hold consultation meetings with the IHL as and when necessary.
12. Hold meetings at least six (6) times per year.
13. Responsible to operationalise policies or tasks determined by the Board.

ACCREDITATION OBJECTIVE

The objective of accreditation is to ensure that graduates of the accredited engineering programmes satisfy the minimum academic requirements for registration as a graduate engineer with the BEM.

In addition, the objective of accreditation is to ensure that Continual Quality Improvement (CQI) is being practiced by IHL. Accreditation may also serve as a tool to benchmark engineering programmes offered by IHL in Malaysia.

The EAD manages the process of applications for approval and accreditation of engineering programmes. Accreditation is voluntary; however engineering programmes need to be accredited in order for the graduates of these programmes to be registered with the BEM.

STRATEGI

1. Meningkatkan sistem pengurusan akreditasi
2. Meningkatkan penglibatan antarabangsa.
3. Menggalakkan jaringan dengan kakitangan pengurusan / utama.
4. Mengekalkan panel penilai yang berpengalaman dalam bidang yang berkaitan.
5. Mewujudkan panel penilai utama untuk penglibatan antarabangsa.
6. Khidmat sokongan sekretariat.

PANEL PENILAI

EAC mempunyai kumpulan Panel Penilai (EP) yang terlatih dari kalangan akademik dan industri.

Statistik terkini pada 31 Disember 2024 menunjukkan EAC mempunyai seramai 608 EP yang terlatih dan aktif, yang mana seramai 192 EP adalah EP dari industri. Jadual 2 menunjukkan statistik EP.

EAC memastikan EP dilengkapi dengan pengetahuan terkini dalam penilaian akreditasi sejajar dengan kehendak WA dan IEA. EP juga memelihara kualiti akreditasi dan menepati keperluan EAC Standard 2024.

Bagi memastikan kualiti pendidikan kejuruteraan di Malaysia sentiasa terpelihara dan untuk menekankan kepentingan pelaksanaan Penambahbaikan Berterusan (CQI), EAC telah menganjur dan melaksanakan sesi libat urus bersama EP. Sesi ini telah dijalankan secara fizikal dan dihadiri oleh lebih 250 EP.

Selain itu, dua sesi latihan yang melibatkan EP dan memfokuskan kepada penulisan laporan akreditasi telah dilaksanakan sepanjang tahun 2024. Semua sesi telah dijalankan dalam kedua-dua kaedah iaitu secara fizikal dan dalam talian.

STRATEGIES

1. Enhance accreditation management system
2. Enhance international involvement
3. Promote networking with top management / key personnel
4. Sustain experienced evaluators in relevant disciplines
5. Establish panel of leading evaluators for international involvement
6. Sustain the secretariat

PANEL EVALUATORS

The EAC has a group of trained Evaluation Panel (EP) from amongst the academia and industry.

The latest statistics as at 31 December 2024 showed that there is a total of 608 trained and active EPs for engineering programmes, of whom a total of 192 EPs are from the industry. Table 2 shows the EP statistics.

The EAC ensures that EPs are equipped with up-to-date knowledge in accreditation, which is in line with WA and IEA requirements. EPs are expected to maintain the quality of accreditation and meet the requirements of EAC Standard 2024.

To ensure that the quality of engineering education in Malaysia is consistently maintained and to emphasise the importance of Continuous Quality Improvement (CQI) implementation, the EAC organised and conducted an engagement session with the EPs. This session was held physically and attended by over 250 EPs.

Additionally, two training sessions involving EPs, focusing on the accreditation report writing, were conducted throughout 2024. All sessions were held in both physical and online modes.

Jadual 1: Statistik Panel Penilai EAC Bagi Tahun 2024

Table 1: Statistics of EAC Evaluation Panel For 2024

Bil No.	Bidang Branch	Akademik Academic	Industri Industry	Jumlah Besar Grand Total
1.	Awam Civil	78	55	133
2.	Kimia Chemical	53	16	69
3.	Elektrikal Electrical	53	40	93
4.	Elektronik Electronic	76	19	95
5.	Mekanikal Mechanical	121	60	181
6.	Lain-lain Others	35	2	37
	Jumlah Total	416	192	608

Jadual 2: Latihan Untuk Panel Penilai Dan Pemegang Taruh Bagi Tahun 2024

Table 2: Training for Evaluation Panel and Stakeholder For 2024

(i) **Webinar / Dialog Anjuran EAC**
Webinar / Dialogue organised by EAC

Tarikh Date	Topik Topic	Kaedah Mode	Jumlah Peserta Total Participants
03.04.2024	Simulation study focused on Section 6.0 Qualifying Requirements and Acc. Criteria, specifically Criterion 2 - Programme Outcomes (PO), aligning with both the Seoul Accord	Online	50
25.09.2024	Sesi Libat Urus EAC bersama Panel Penilai	Physical	250
09.10.2024 (am)	Engagement Session of EAC with IHL	Online	350

(ii) **Ceramah / Taklimat oleh EAC kepada Pelbagai Organisasi**
Talks / Briefing given by EAC to various organisations:

Tarikh Date	Topik Topic	Kaedah Mode	Organisasi Organisation
15.01.2024	Engagement Session with Universiti Malaysia Perlis (UniMAP)	Physical	UniMAP
23.01.2024	Engagement Session with UniKL HQ, Kuala Lumpur	Physical	UniKL
30.01.2024	Sesi Libat Urus Majlis Pengurusan Kualiti (MPQ) Universiti Awam bersama EAD, BEM	Physical	MPQUA
21.06.2024	Engagement Session with UTHM, Johor	Physical	UTHM
01.08.2024	Courtesy Visit to Jabatan Tenaga Manusia (JTM)	Physical	JTM
14.08.2024	Engagement Session with Monash University	Physical	Monash U
06.09.2024	Discussion of the Dual Degree Programme between Beijing Jiaotong University, China (BJTU) and UMPSA	Physical	UMPSA
06.09.2024	Engagement session with UTM Space	Physical	UTM SPACE
12.09.2024	Engagement session with UTHM	Physical	UTHM
30.09.2024	Courtesy Visit to City University, Malaysia	Physical	CUM
11.10.2024	Courtesy Visit to INTI International College, Penang	Physical	INTI
18.10.2024	Courtesy Visit to First City University College	Physical	FCUC
21.10.2024	Courtesy Visit to University of Southampton Malaysia	Physical	UoSM
15.11.2024	Engagement Session with Royal University of Bhutan	Online	RUB
21.11.2024	Engagement Session with MSU	Online	MSU

(iii) **Perwakilan EAC di Forum Tempatan**
EAC representation at local forum

Tarikh Date	Forum Forum	Kaedah Mode	Penganjur Organiser
2024 - 2025	Ahli Jawatankuasa Tetap Mesyuarat Saringan Awal (MSA) dan Jawatankuasa Pendidikan Tinggi (JKPT), Jabatan Pendidikan Tinggi, Sesi 2023-2024.	Physical	MoHE
2024 - 2025	Member of Technical Working Group 3: Quality of Programme Students and Institutions under the National Task Force of IPTS for the Industry Year 2024–2025	Physical	MoHE
15.01.2024	Study of the Direction of Engineering Programmes in Malaysian Public Universities in Addressing the Challenges of Industry 4.0	Physical	MoHE
20.02.2024	NOSS Programme Equivalence and Qualification Study Meeting for Recognition Purposes with the Board of Engineers Malaysia (BEM)	Physical	DSD
04.03.2024	Engagement Session with Ministry of Higher Education (MoHE)	Physical	MoHE
05.03.2024	Tripartite Seminar between Industry, TVET Training and Education Center and Government Agencies Year 2024 “Greater TVET Future Talent: Facing the Changing World of Work	Physical	DSD
18-19.03.2024	Observation Visit – The Institution of Engineering Technology (IET) Accreditation Visit: University of Nottingham, Department of Electrical & Electronic Engineering – Malaysia campus	Physical	IET
21.03.2024	Informant for the Focus Group Discussion (FGD) on the Amendment Study of the MQA Act and its Regulations	Online	MQA
01.04.2024	Engagement Session with Universiti Teknikal Malaysia Melaka (UTeM)	Online	UTeM
05.04.2024	Workshop of the MQA Act Amendment and MQA Act Regulations	Online	MQA
06.07.2024	IEEE Malaysia Inspiration Night 2024, Putrajaya	Physical	IEEE
04.09.2024	Polytechnic Industry Advisory Council and Inauguration Council of the 2024 INDEX PolyCC Program	Physical	JPPKK
01.10.2024	BEM Convention 2024 • STEM Outreach Innovation • TVET Teachers / Counsellors Engagement Session	Physical	BEM
11-12.11.2024	MQA International Conference 2024, Kuching	Physical	MQA
13.11.2024	BEM Open Day / Roadshow, Kuching, Sarawak	Physical	BEM
11-12.12.2024	Hari Profesion Teknikal Negara (HPTN) 2024	Physical	BEM

(iv) **Perwakilan EAC di Forum Antarabangsa**
EAC representation at international forum:

Tarikh Date	Forum Forum	Kaedah Mode	Penganjur Organiser
Since 2016 Ongoing	Mentor for Provisional WA members for BAETE-IEB Bangladesh (since 2016).	Online	IEB
30-31.01.2024 & 28-29.02.2024	Reviewer Verification Visit to the Engineering Council, UK	Physical	IEA
26-29.02.2024	Reviewer Verification Visit to the Hong Kong Institution of Engineers (HKIE)	Physical	HKIE
09-13.06.2024	International Engineering Alliance (IEA) meeting 2024, New Delhi, India	Physical	IEA
23-25.06.2024	Reviewer Verification Visit to the Accreditation Board for Engineering Education of Korea (ABEEK)	Physical	ABEEK
01.07.2024	Workshop on progress to acceding to the Washington Accord (Mentor for Provisional WA member for EBK Kenya (since 2020) throughout 2021 - Ongoing)	Physical	EBK
7-13.07.2024	Visit on Mentoring the process of BPERB's Authorised Membership to IPEA	Physical	IEB
24.25.07.2024	The International Conference on Upfront Engineering Education and Professional Mobility 2024	Physical	COET

(v) **Program Latihan Anjuran EAC**
Training Programmes conducted by EAC

Tarikh Date	Latihan Training	Kaedah Mode
08.01.2024	EAC Council Induction Meeting: Accreditation Process and Decision Making	Hybrid
19-20.11.2024	Training on Accreditation Report Writing – EAC – Washington Accord Programmes	Physical

MAJLIS AKREDITASI TEKNOLOGI KEJURUTERAAN

Memastikan Pendidikan Kejuruteraan Berkualiti

ENGINEERING TECHNOLOGY ACCREDITATION COUNCIL

Ensuring Quality Engineering Education

LATAR BELAKANG ETAC

MAJLIS AKREDITASI TEKNOLOGI KEJURUTERAAN

Majlis Akreditasi Teknologi Kejuruteraan (ETAC) merupakan badan yang diwakili oleh Lembaga Jurutera Malaysia (LJM). ETAC bermula sebagai Majlis Protem pada tahun 2011 untuk menyediakan peralihan lancar pengakreditasi program Pendidikan Teknologi Kejuruteraan dan Juruteknik Kejuruteraan. Protem ETAC memberi tumpuan kepada program pendidikan berasaskan *Sydney Accord* (SA) dan memperoleh kelulusan secara rasmi melalui Manual Akreditasi Teknologi Kejuruteraan yang pertama pada tahun 2015.

Dengan pindaan kepada Akta Pendaftaran Jurutera 1967 pada tahun 2015, LJM telah menubuhkan ETAC dengan 21 ahli majlis yang terdiri daripada tujuh (7) kumpulan (wakil LJM, persatuan berasaskan pendidikan, industri / majikan, Jabatan Perkhidmatan Awam (JPA), Agensi Kelayakan Malaysia (MQA), Kementerian dan wakil awam sebagai satu-satunya badan akreditasi yang diiktiraf untuk ijazah teknologi kejuruteraan, diploma kejuruteraan dan program diploma teknologi kejuruteraan yang ditawarkan di Malaysia pada 2015.

Daripada 21 ahli ETAC, lebih daripada 50% daripada mereka adalah wakil dari pelbagai bidang industri kejuruteraan. LJM percaya bahawa gabungan ahli yang baik dari latar belakang yang berlainan; pengamal, ahli akademik, agensi kerajaan dan masyarakat terpelajar akan memberikan kekuatan dan keseimbangan kepada Majlis untuk melaksanakan peranan dan fungsi mereka.

ETAC memastikan kualiti graduan program ijazah teknologi kejuruteraan, diploma kejuruteraan dan program diploma teknologi kejuruteraan dapat dipertingkatkan melalui proses akreditasi. Kini setakat 31 Disember 2024, terdapat 99 program ijazah teknologi kejuruteraan dan 282 program diploma kejuruteraan yang diiktiraf oleh ETAC dan tersenarai dalam Daftar ETAC dan MQA.

ABOUT ETAC

ENGINEERING TECHNOLOGY ACCREDITATION COUNCIL

The Engineering Technology Accreditation Council (ETAC) is a body delegated by the Board of Engineers Malaysia (BEM). ETAC began as a Protem Council in 2011 to facilitate a smooth transition in accrediting Engineering Technology and Engineering Technician Education programmes. Initially, Protem ETAC focused on education programmes based on the Sydney Accord and obtained approval for its inaugural Engineering Technology Accreditation Manual from the BEM in 2015.

With the 2015 amendment to the Registration of Engineers Act 1967, the BEM established the Engineering Technology Accreditation Council (ETAC), comprising a 21-member council, consisting of seven (7) groups: BEM, learned bodies, industry/employers, the Public Services Department (PSD), the Malaysian Qualification Agency (MQA), the Ministry, and public representatives. ETAC was designated as the sole recognized accrediting body for engineering technology bachelor's degrees, engineering diplomas, and engineering technology diploma programs offered in Malaysia.

Out of the 21 members of ETAC, more than 50% are representatives from various sectors of the engineering industry. The BEM believes that a diverse membership, including practitioners, academics, representatives from related government agencies, and learned societies, will provide strength and balance to the council in fulfilling its role and functions.

The ETAC ensures that the quality of bachelor's degrees in engineering technology, engineering diplomas, and engineering technology diplomas is enhanced through the accreditation process. As of December 31, 2024, there are 99 accredited engineering technology degree programmes and 282 accredited engineering diploma programmes listed on the ETAC and MQA Register.

PENGIKTIRAFAN ANTARABANGSA DAN IMPAK GLOBAL

Program ijazah teknologi kejuruteraan, diploma kejuruteraan dan program diploma teknologi kejuruteraan yang diakreditasi oleh ETAC kini ditanda aras kepada piawaian antarabangsa. LJM telah menjadi ahli penandatanganan Sydney Accord (SA) dan Dublin Accord (DA) di bawah pentadbiran International Engineering Alliance (IEA) semenjak tahun 2018. Semakan berkala pertama bagi SA dan DA telah berlangsung pada Oktober 2024. Hasil semakan ini akan diumumkan pada mesyuarat IEA di Mexico pada Jun 2025. Melalui pengiktirafan ini, program teknologi kejuruteraan, diploma kejuruteraan dan diploma teknologi kejuruteraan yang diakreditasi ETAC kini diiktiraf oleh 11 SA dan sembilan (9) DA negara-negara ahli penandatanganan.

Ini menunjukkan, kualiti pendidikan Teknologi Kejuruteraan dan Pendidikan Juruteknik Kejuruteraan dan juga sistem pendidikan negara adalah sama taraf dan sejajar dengan negara maju di dunia. Pelaksanaan proses akreditasi ETAC yang berkesan dan penambahbaikan yang berterusan telah berjaya meyakinkan serta menarik pelaburan luar dalam pendidikan Teknologi Kejuruteraan dan Pendidikan Juruteknik Kejuruteraan di Malaysia. Ini dapat dibuktikan dengan pembukaan kampus-kampus cawangan universiti antarabangsa di Malaysia. Ini bukan sahaja dapat merangsang pertumbuhan ekonomi Malaysia dan menjadikan negara ini sebagai hab pendidikan kejuruteraan antarabangsa yang mapan.

PENCAPAIAN ETAC

Pada tahun 2024, sebanyak 46 sesi penglibatan bersama pemegang taruh dan pihak yang berkepentingan telah dilaksanakan, yang mana terdapat 1 sesi yang melibatkan pihak luar negara. LJM telah menjalankan peranan yang penting dalam kesemua penglibatannya di peringkat antarabangsa.

Pencapaian ETAC pada 2024 yang menjadi impak kepada ETAC ialah melalui pelantikan Ir. Megat Johari Megat Mohd Noor selaku Pengerusi DA selama dua (2) tahun, dari 2024 sehingga 2026. Ini adalah satu sejarah buat Malaysia dan LJM khususnya, yang mana anggota DA di IEA menerima baik pencalonan dari ETAC.

INTERNATIONALLY RECOGNISED AND GLOBAL IMPACT

All engineering technology bachelor's degree programmes, engineering diplomas, and engineering technology diploma qualifications accredited by ETAC are benchmarked to international standards. BEM has been a full signatory to the Sydney Accord (SA) and Dublin Accord (DA) under the administration of the International Engineering Alliance (IEA) since 2018. The first periodic review of the SA and DA took place in October 2024. The outcome of this review will be announced at the IEA meeting in Mexico in June 2025. Through this recognition, Engineering Technology and Engineering Technician Education programmes accredited by ETAC are now acknowledged by 11 signatory member countries of SA and nine (9) of DA.

This indicates that the quality of Engineering Technology and Engineering Technician Education, as well as our national education system in Malaysia, is on par with that of developed countries worldwide. The effective implementation of the ETAC accreditation and continuous quality improvement processes has indeed successfully convinced external investors to invest in Engineering Technology and Engineering Technician Education in Malaysia. This is evidenced by the establishment of branch campuses by many renowned international universities now present in Malaysia. This not only stimulates national economic growth but also positions Malaysia as a sustainable global engineering education hub.

ETAC ACHIEVEMENTS

In 2024, a total of 46 stakeholder engagement sessions were organised, with one involving overseas parties. BEM has played an important role in all its international involvements.

The achievement by ETAC in 2024 that had a significant impact was the appointment of Ir. Megat Johari Megat Mohd Noor as the Chairman of the DA for two years, from 2024 to 2026. This milestone in Malaysian history, particularly for the BEM, was well-received by the DA members in the IEA.

Wakil ETAC telah dijemput dan dilantik sebagai penceramah jemputan dan ucap utama pada sesi perkongsian di dalam dan di luar negara. Sebahagian dari sesi tersebut adalah seperti yang tersenarai di bawah:

1. Konvensyen LJM 2024 dari 1.10.2024 hingga 4.10.2024
2. Konvensyen IEM 2023 dari 18.9.2024 hingga 21.9.2024
3. Persidangan Antarabangsa MQA 2024 di Sarawak pada 11.11.2024 hingga 12.11.2024
4. Seminar Tripartit antara Industri, Pusat Latihan dan Pendidikan TVET serta Agensi Kerajaan Tahun 2024 bertemakan "Greater TVET Future Talent: Facing the Changing World of Work" pada 5.3.2024
5. Bengkel Pindaan Akta MQA dan Peraturan-Peraturan Akta MQA pada 5.10.2024

Pada tahun 2024, ETAC telah mengendalikan sesi perkongsian ilmu dan maklumat bersama IPT dan panel penilai EAC. Perbincangan telah berjaya melahirkan beberapa penyelesaian kepada masalah yang merupakan asas dalam proses akreditasi dan pendidikan kejuruteraan. Sesi perkongsian tersebut adalah seperti berikut:

1. Sesi libat urus antara LJM dengan IPT mengenai Standard ETAC 2024, 9.10.2024
2. Sesi libat urus antara LJM dengan Panel Penilai ETAC mengenai Standard EAC 2024, 26.9.2024

ETAC representatives were invited and appointed as guest speakers and keynote speakers at sharing sessions at home and abroad. Some of the sessions are listed below:

1. BEM Convention 2024 from 1 to 4.10.2024
2. IEM Convention 2023 from 18 to 21.9.2024
3. MQA International Conference 2024 in Sarawak from 11 - 12.11.2024
4. Tripartite Seminar between Industry, TVET Training and Education Center and Government Agencies Year 2024 "Greater TVET Future Talent: Facing the Changing World of Work on 5.3.2024
5. Workshop of the MQA Act Amendment and MQA Act Regulations. 5.10.24

In 2024, the ETAC conducted knowledge and information sharing sessions with IHL as well as the ETAC evaluation panel members. These discussions have resulted in numerous solutions to issues fundamental to the accreditation and engineering education processes. The sharing sessions included the following:

1. An engagement session BEM with IHLs regarding the ETAC Standards 2024, 9.10.2024
2. An engagement session between BEM with the EAC Evaluation Panel regarding the ETAC Standards 2024, 25.9.2024

ETAC bersama pemegangtaruh penting dalam negara telah menghasilkan keputusan keperluan bertindak untuk menentukan hala tuju pendidikan kejuruteraan dan kualiti graduan. Keahlian dan jawatankuasa yang berkaitan adalah seperti berikut:

1. Ahli Jawatankuasa Tetap Mesyuarat Saringan Awal (MSA) dan Jawatankuasa Pendidikan Tinggi (JKPT), Jabatan Pendidikan Tinggi, Sesi 2024-2025.
2. Ahli Kumpulan Kerja Teknikal 3: Kualiti Pelajar dan Institusi Program di bawah Pasukan Petugas Nasional IPTS untuk Industri Tahun 2024-2025
3. Kajian Halatuju Program Kejuruteraan di Universiti Awam Malaysia dalam Menangani Cabaran Industri 4.0, 15.01.2024
4. Sesi Perbincangan Kumpulan Fokus (FGD) mengenai Kajian Pindaan Akta MQA dan Peraturan-Peraturannya, 21.3.2024
5. Majlis Penasihat Industri Politeknik dan Majlis Perasmian Program INDEX PolyCC 2024, 4.10.2024

Peranan LJM dalam IEA, SA dan DA sangat penting sebagai pemangkin pembangunan kejuruteraan di Malaysia. LJM telah menerima pengiktirafan di peringkat antarabangsa dan sentiasa mengambil bahagian dengan penglibatan yang aktif dan terus menyumbang dalam aktiviti pendidikan dan profesional.

Malaysia sentiasa bertekad untuk memenuhi piawaian antarabangsa dan jangkaan. ETAC telah menubuhkan pelan tindakan strategik dan sasaran untuk memastikan ETAC memenuhi keperluan piawaian ini.

KEMAMPANAN KEWANGAN

ETAC kini beroperasi di bawah belanjawannya sendiri yang diperolehi daripada yuran akreditasi yang dibayar oleh IPT dan sokongan berterusan LJM.

TADBIR URUS DAN STRUKTUR

Operasi ETAC disokong oleh cabang pentadbirannya, Jabatan Akreditasi Kejuruteraan (EAD) yang terdiri daripada seorang Pengarah, tujuh (7) Pengarah Bersekutu dan sekretariat.

EAD juga disokong oleh pasukan petugas dan jawatankuasa yang mengawasi pembangunan standard akreditasi, perubahan budaya berasaskan hasil di institusi pengajian tinggi, jaminan kualiti dan hal ehwal antarabangsa.

The ETAC, in collaboration with key stakeholders in the nation, has reached a conclusion regarding the need to act on the direction of engineering education and the quality of graduates. The following list comprises the members of the committee and relevant subcommittees:

1. Member of the Standing Committee for the Preliminary Screening Meeting (MSA) and the Higher Education Committee (JKPT), Department of Higher Education, Session 2024-2025..
2. Member of Technical Working Group 3: Quality of Programme Students and Institutions under the National Task Force of IPTS for the Industry Year 2024-2025
3. Study of the Direction of Engineering Programmes in Malaysian Public Universities in Addressing the Challenges of Industry 4.0. 15.01.2024
4. Focus Group Discussion (FGD) on the Amendment Study of the MQA Act and its Regulations. 21.3.2024
5. Polytechnic Industry Advisory Council and Inauguration Council of the 2024 INDEX PolyCC Program. 4.10.2024

The role of the BEM in IEA, SA, and DA is paramount to serve as a catalyst for engineering development in Malaysia. BEM has received international recognition and consistently participates in active involvement to continuously contribute to educational and professional activities.

Malaysia is always determined to keep abreast of international standards and expectations. ETAC has established strategic action plans and targets to ensure that it meets the standard requirements.

FINANCIAL SUSTAINABILITY

ETAC is currently operating under its own budget obtained from accreditation fees paid by institution of IHL along with continuous support of the BEM.

GOVERNANCE AND STRUCTURE

The operation of ETAC is supported by its administrative arm, the Engineering Accreditation Department (EAD) which consists of a Director, seven (7) Associate Directors and Secretariats.

EAD is also supported by a task force and its committees that oversee the development of accreditation manuals standards, the outcome-based culture changes at institutions of higher learning, quality assurance and international affairs

Ahli:**LJM**

Dato' Prof. Ir. Dr. Norlida binti Buniyamin (Pengerusi) (Elektrikal)
 Ir. Megat Johari bin Megat Mohd Noor (Timbalan Pengerusi) (Awam)
 Tan Sri Academician Dato' Ir. Prof. Emeritus Dr. Chuah Hean Teik (UTAR) (Elektrikal)
 Prof. Ir. Dr. Zuhaina binti Zakaria (UiTM)
 Sr. Hj. Razali bin Johari (JPPKK)
 Puan Noaryanti binti Mohd Noor (Wakil ganti – JPPKK)
 Ir. Mahzan bin Teh (MARA)
 Dato' Prof. Ts. Dr. Yuserrie bin Zainuddin (UMPSA)
 Prof. Madya Dr. Ahmad Yasir bin Md Said (UniKL)

WAKIL MQA

Prof. Ts. Dr. M. Iqbal bin Saripan (MQA)
 En. Mohd Ishak bin Mohd Hussaini - Wakil ganti

PERSATUAN BERASASKAN PENDIDIKAN

Dato' Prof. Dr. Abdul Hakim bin Juri (MySET)
 Ir. Dr. Tan Chee Fai (IEM)
 Ts. Tung Chee Kuan (TAM)
 Encik Hamdan bin Samah @ Othman (COWAM)

KEMENTERIAN BERKAITAN

Dr. Wan Nasarudin bin Wan Jalal (MOHR)
 Puan Nurhida binti Shaharuddin (MOHR) - Wakil ganti
 Dato' Prof. Dr. Norzaini binti Azman (MOHE)
 Prof. Madya Dr. Azidah binti Abu Ziden (MOHE) – Wakil ganti
 Dato' Pauzan bin Ahmar (JPA)
 Encik Wan Muzani bin Wan Idris (JPA) – Wakil ganti
 Encik Rozaiman bin Hj Hassan (CIDB)
 Ts. Emasria binti Ismail (CIDB) – Wakil ganti

INDUSTRI

Dr. Ahmad Jaafar bin Abdul Hamid (TNB)
 Puan Annaliz binti Abu Bakar (PETRONAS)
 Encik Ricky Liew Chee Leong (SR Aviation Sdn Bhd)

WAKIL AWAM

Encik Hazri Rohilio bin Hood (Winning Minds Sdn Bhd)

Members:**BEM**

Dato' Prof. Ir. Dr. Norlida binti Buniyamin (Chairman) (Electrical)
 Ir. Megat Johari bin Megat Mohd Noor (Deputy Chairman) Civil
 Tan Sri Academician Dato' Dr Chuah Hean Teik (UTAR) (Electrical)
 Prof. Ir. Dr. Zuhaina binti Zakaria (UiTM)
 Sr. Hj. Razali bin Johari (JPPKK)
 Puan Noaryanti binti Mohd Noor (alternate rep – JPPKK)
 Ir. Mahzan bin Teh (MARA)
 Dato' Prof. Ts. Dr. Yuserrie bin Zainuddin (UMPSA)
 Assoc. Prof. Dr. Ahmad Yasir bin Md Said (UniKL)

MQA REPRESENTATIVE

Prof. Ts. Dr. M. Iqbal bin Saripan (MQA)
 En. Mohd Ishak bin Mohd Hussaini (alternate rep - MQA)

LEARNED SOCIETIES

Dato' Prof. Dr. Abdul Hakim bin Juri (MySET)
 Ir. Dr. Tan Chee Fai (IEM)
 Ts. Tung Chee Kuan (TAM)
 Encik Hamdan bin Samah @ Othman (COWAM)

RELATED MINISTRY

Dr. Wan Nasarudin bin Wan Jalal (MOHR)
 Puan Nurhida binti Shaharuddin (alternate rep - MOHR)
 Dato' Prof. Dr. Norzaini binti Azman (MOHE)
 Prof. Madya Dr. Azidah binti Abu Ziden (alternate rep - MOHE)
 Dato' Pauzan bin Ahmar (JPA)
 Encik Wan Muzani bin Wan Idris (alternate rep - JPA)
 Encik Rozaiman bin Hj Hassan (CIDB)
 Ts. Emasria binti Ismail (alternate rep - CIDB)

INDUSTRY

Dr. Ahmad Jaafar bin Abdul Hamid (TNB)
 Puan Annaliz binti Abu Bakar (PETRONAS)
 Encik Ricky Liew Chee Leong (SR Aviation Sdn Bhd)

PUBLIC REPRESENTATIVE

Encik Hazri Rohilio bin Hood (Winning Minds Sdn Bhd)

Terma Rujukan:

1. Merangka dan mengemaskini polisi dan kriteria akreditasi.
2. Meluluskan garis panduan terperinci dan prosedur operasi untuk akreditasi.
3. Mengawasi semua penyusunan operasi dan perlantikan ahli Panel Penilai.
4. Menerima laporan penilaian program teknologi kejuruteraan dan juruteknik kejuruteraan dan memutuskan sama ada akreditasi perlu diberikan atau sebaliknya.
5. Mewujudkan dan menyenggara senarai program teknologi kejuruteraan dan juruteknik kejuruteraan tempatan dan asing yang diiktiraf.
6. Memberi maklumbalas terhadap sebarang aduan atau rayuan mengenai proses akreditasi dan sebarang cadangan perubahan.
7. Mengawasi pembangunan dan operasi pengakreditasi serta pengiktirafan bersama program kejuruteraan dengan negara lain.
8. Memastikan Lembaga dimaklumkan mengenai aktiviti-aktiviti ETAC dan jika perlu, membuat cadangan kepada Ahli Lembaga.
9. Mengukuhkan penyebaran perkembangan dan amalan terbaik dalam bidang teknologi kejuruteraan dan pendidikan juruteknik kejuruteraan.
10. Menasihati Lembaga mengenai pernyataan awam atau representasi yang perlu dibuat berhubung pendidikan teknologi kejuruteraan.
11. Mengadakan mesyuarat perundingan dengan IPT bila perlu.
12. Mengadakan mesyuarat sekurang- kurangnya 6 kali setahun.
13. Mencadangkan ahli ETAC tambahan jika perlu.
14. Bertanggungjawab untuk melaksanakan dasar atau tugas yang ditentukan oleh Lembaga.

Terms of Reference:

1. Formulate and update the accreditation policies and criteria.
2. Approve detailed guidelines and operating procedures for accreditation.
3. Oversee all operational arrangements, and appoint members of the Evaluation Panel.
4. Receive evaluation report on engineering technology and engineering technician programmes, and decide whether accreditation should be granted or otherwise.
5. Establish and maintain a list of local and foreign accredited engineering technology and engineering technician programmes.
6. Respond to any complaints or appeals concerning the accreditation process and to any proposals for change.
7. Oversee the development and operation of accreditation and mutual recognition of programmes with other countries.
8. Keep the Board informed of the activities of ETAC and where necessary make recommendations to the Board.
9. Foster the dissemination of developments and best practices in engineering technology and engineering technician education.
10. Advise the Board on public statements or representations that should be made in relation to engineering technology education.
11. Hold consultation meetings with IHLs as and when necessary.
12. Hold meetings at least 6 times per year.
13. Propose additional ETAC members if necessary.
14. Responsible to operationalise policies or tasks determined by the Board.

OBJEKTIF AKREDITASI

Objektif akreditasi adalah untuk memastikan graduan daripada program kejuruteraan yang diiktiraf memenuhi keperluan akademik minimum untuk pendaftaran sebagai Teknologis Kejuruteraan dan *Inspector of Works* dengan LJM.

Di samping itu, objektif akreditasi adalah untuk memastikan bahawa Peningkatan Kualiti Berterusan (CQI) diamalkan oleh IPT. Akreditasi juga boleh berfungsi sebagai alat penanda aras program kejuruteraan yang ditawarkan oleh IPT di Malaysia.

EAD menguruskan proses permohonan untuk kelulusan dan akreditasi program kejuruteraan. Pengakreditasi adalah secara sukarela; walau bagaimanapun program kejuruteraan perlu diiktiraf bagi membolehkan graduan daripada program-program ini berdaftar dengan LJM.

STRATEGI

1. Meningkatkan sistem pengurusan akreditasi
2. Meningkatkan penglibatan antarabangsa.
3. Menggalakkan jaringan dengan kakitangan pengurusan / utama.
4. Mengekalkan panel penilai yang berpengalaman dalam bidang yang berkaitan.
5. Mewujudkan panel penilai utama untuk penglibatan antarabangsa.
6. Khidmat sokongan sekretariat.

PANEL PENILAI

ETAC mempunyai kumpulan Penilai Program (EP) yang terlatih dari kalangan akademik dan industri.

Statistik terkini pada 31 Disember 2024 menunjukkan ETAC mempunyai seramai 534 EP yang terlatih dan aktif, yang mana 118 EP adalah EP industri.

ETAC memastikan EP dilengkapi dengan pengetahuan terkini dalam penilaian akreditasi sejajar dengan keperluan SA, DA dan IEA. EP juga memelihara kualiti akreditasi dan menepati keperluan ETAC Standard 2020. Bagi memelihara kualiti pendidikan Teknologi Kejuruteraan dan Pendidikan Juruteknik Kejuruteraan di Malaysia dan kepentingan melaksanakan CQI, ETAC telah menyusun dan melaksanakan sebanyak lima (5) sesi latihan yang melibatkan IPT dan EP yang tertumpu pada proses akreditasi telah dijalankan di sepanjang tahun 2024. Semua sesi telah dijalankan secara dalam talian dan fizikal.

ACCREDITATION OBJECTIVE

The objective of accreditation is to ensure that graduates of the accredited engineering programmes satisfy the minimum academic requirements. These requirements are necessary for registration as an Engineering Technologist and Inspector of Works with the BEM.

In addition, the objective of accreditation is to ensure that Continual Quality Improvement (CQI) is practiced by IHLs. Accreditation may also serve as a tool to benchmark engineering programmes offered by IHLs in Malaysia.

The EAD manages the process of applications for approval and accreditation of engineering programmes. Accreditation is voluntary; however, engineering programmes need to be accredited for the graduates of these programmes to be registered with the BEM.

STRATEGIES

1. Enhance accreditation management system
2. Enhance international involvement
3. Promote networking with top management/key personnel
4. Sustain experienced evaluators in relevant disciplines
5. Establish panel of leading evaluators for international involvement
6. Sustain the secretariat

PANEL EVALUATORS

The ETAC has a group of trained Evaluation Panel (EP) from amongst the academia and industry.

The latest statistics as of 31 December 2024 showed that there is a total of 534 EP trained and active of whom a total of 118 EPs are from the industry.

The ETAC ensures that EPs are equipped with up-to-date knowledge in accreditation, aligning with SA, DA, and IEA requirements. EPs are also expected to maintain accreditation quality and meet the standards outlined in the ETAC Standards 2024. In order to uphold the quality of Engineering Technology and Engineering Technician education in Malaysia, as well as emphasise the importance of Continuous Quality Improvement (CQI) implementation, ETAC organised and conducted five (5) training sessions involving Institutions of Higher Learning (IHL) and EPs, focused on the accreditation process, were conducted throughout 2024. These sessions, were conducted both online and in-person.

Jadual 1: Statistik Panel Penilai ETAC bagi Tahun 2024
Table 1 Statistics of ETAC Evaluation Panel for 2024

Bil No.	Bidang Branch	Akademik Academic	Industri Industry	Jumlah Besar Grand Total
1.	Awam Civil	105	32	137
2.	Kimia Chemical	34	5	39
3.	Elektrikal Electrical	97	27	124
4.	Elektronik Electronic	99	8	107
5.	Mekanikal Mechanical	145	35	180
6.	Lain – lain Others:	72	11	83
	Jumlah Total	552	118	670

Jadual 2: Latihan Untuk Panel Penilai Dan Pemegang Taruh bagi Tahun 2024
Table 2: Training For Evaluation Panel and Stakeholder for 2024

Webinar / Dialog Anjuran ETAC
Webinar / Dialogue organised by ETAC

Tarikh Date	Topik Topic	Kaedah Mode	Jumlah Peserta Total Participants
03.04.2024	Simulation study focused on Section 6.0 Qualifying Requirements and Acc. Criteria, specifically Criterion 2 - Programme Outcomes (PO), aligning with both the Seoul Accord	Online	50
11.09.2024	Enhancing Awareness and Readiness: Preparing IHL for the SADA Periodic Review Visit	Physical	45
12.09.2024	Enhancing Awareness and Readiness: Preparing Evaluation Panels for the SADA Periodic Review Visit	Hybrid	65
26.09.2024	Sesi Libat Urus ETAC bersama Panel Penilai	Physical	250
09.10.2024 (pm)	Engagement Session of ETAC with IHL	Online	300

Ceramah / Taklimat oleh ETAC kepada Pelbagai Organisasi*Talks / Briefing given by ETAC to various organisations:*

Tarikh Date	Topik Topic	Kaedah Mode	Organisasi Organisation
15.01.2024	Engagement Session with Universiti Malaysia Perlis (UniMAP)	Physical	UniMAP
19.01.2024	Engagement Session with Jabatan Pendidikan Politeknik dan Kolej Komuniti (JPPKK)	Physical	JPPKK
23.01.2024	Engagement Session with UniKL HQ, Kuala Lumpur	Physical	UniKL
30.01.2024	Sesi Libat Urus Majlis Pengurusan Kualiti (MPQ) Universiti Awam bersama EAD, BEM	Physical	MPQUA
08.05.2024	Sydney and Dublin Accord Awareness Workshop – UniKL MSI, Kulim	Physical	UniKL MSI
27-29.05.2024	Engagement session Outreach Plan Theme 5 - Visit to Terengganu (INSTEP, UMT, UniSZA & TATI)	Physical	UMT, UniSZA TATI
20.06.2024	Engagement Session with Disted College	Physical	Disted College
24.06.2024	Courtesy Visit by UniMAP	Physical	UniMAP
15.07.2024	Briefing to Japanese Researchers	Physical	KUISS, KU, UoM
01.08.2024	Courtesy Visit to Jabatan Tenaga Manusia (JTM)	Physical	JTM
11-13.08.2024	Engagement session Outreach Plan Theme 5 - Visit to Kelantan (Politeknik Jeli Kelantan and Universiti Malaysia Kelantan)	Physical	PJK, UMK
14.08.2024	Engagement Session with Monash University	Physical	Monash U
06.09.2024	Engagement session with UTM Space	Physical	UTM SPACE
09.09.2024	Engagement session Outreach Plan Theme 5 - Visit to Johor (Southern University College)	Physical	SUC
12.09.2024	Engagement session with UTHM	Physical	UTHM
15.11.2024	Engagement Session with Royal University of Bhutan	Online	RUB
21.11.2024	Engagement Session with MSU	Online	MSU
06.12.2024	Courtesy Visit to Kolej Teknologi Yayasan Sabah	Physical	KTYS

Perwakilan ETAC di Forum Tempatan
EATC representation at local forum

Tarikh Date	Forum Forum	Kaedah Mode	Organisasi Organiser
2024-2025	Ahli Jawatankuasa Tetap Mesyuarat Saringan Awal (MSA) dan Jawatankuasa Pendidikan Tinggi (JKPT), Jabatan Pendidikan Tinggi, Sesi 2023-2024.	Physical	MoHE
2024 - 2025	Member of Technical Working Group 3: Quality of Programme Students and Institutions under the National Task Force of IPTS for the Industry Year 2024–2025	Physical	MoHE
15.01.2024	Study of the Direction of Engineering Programmes in Malaysian Public Universities in Addressing the Challenges of Industry 4.0	Physical	MoHE
20.02.2024	NOSS Programme Equivalence and Qualification Study Meeting for Recognition Purposes with the Board of Engineers Malaysia (BEM)	Physical	DSD
04.03.2024	Engagement Session with Ministry of Higher Education (MoHE)	Physical	MoHE
05.03.2024	Tripartite Seminar between Industry, TVET Training and Education Center and Government Agencies Year 2024 “Greater TVET Future Talent: Facing the Changing World of Work	Physical	DSD
18-19.03.2024	Observation Visit – The Institution of Engineering Technology (IET) Accreditation Visit: University of Nottingham, Department of Electrical & Electronic Engineering – Malaysia campus	Physical	IET
21.03.2024	Informant for the Focus Group Discussion (FGD) on the Amendment Study of the MQA Act and its Regulations	Online	MQA
01.04.2024	Engagement Session with Universiti Teknikal Malaysia Melaka (UTeM)	Online	UTeM
05.04.2024	Workshop of the MQA Act Amendment and MQA Act Regulations	Online	MQA
06.07.2024	IEEE Malaysia Inspiration Night 2024, Putrajaya	Physical	IEEE
04.09.2024	Polytechnic Industry Advisory Council and Inauguration Council of the 2024 INDEX PolyCC Program	Physical	JPPKK
01.10.2024	BEM Convention 2024 □ STEM Outreach Innovation □ TVET Teachers / Counsellors Engagement Session	Physical	BEM
19-27.10.2024	SADA Periodic Review Visit to the Board of Engineers Malaysia	Physical	EAD
11-12.11.2024	MQA International Conference 2024, Kuching	Physical	MQA
13.11.2024	BEM Open Day / Roadshow, Kuching, Sarawak	Physical	BEM
11-12.12.2024	Hari Profesion Teknikal Negara (HPTN) 2024	Physical	BEM

Perwakilan ETAC di Forum Antarabangsa
EATC representation at international forum:

Tarikh Date	Forum Forum	Kaedah Mode	Organisasi Organiser
Since 2016 Ongoing	Mentor for Provisional WA members for BAETE-IEB Bangladesh (since 2016).	Online	IEB
30-31.01.2024 & 28-29.02.2024	Reviewer Verification Visit to the Engineering Council, UK	Physical	IEA
26-29.02.2024	Reviewer Verification Visit to the Hong Kong Institution of Engineers (HKIE)	Physical	HKIE
09-13.06.2024	International Engineering Alliance (IEA) meeting 2024, New Delhi, India	Physical	IEA
23-25.06.2024	Reviewer Verification Visit to the Accreditation Board for Engineering Education of Korea (ABEEK)	Physical	ABEEK
01.07.2024	Workshop on progress to acceding to the Washington Accord (Mentor for Provisional WA member for EBK Kenya (since 2020) throughout 2021 - Ongoing)	Physical	EBK
7-13.07.2024	Visit on Mentoring the process of BPERB's Authorised Membership to IPEA	Physical	IEB
24.25.07.2024	The International Conference on Upfront Engineering Education and Professional Mobility 2024	Physical	COET

Program Latihan Anjuran ETAC
Training Programmes conducted by ETAC

Tarikh Date	Latihan Training	Kaedah Mode
10.01.2024	ETAC Council Induction Meeting: Accreditation Process and Decision Making	Hybrid
05-06.11.2024	Training on Accreditation Report Writing – ETAC – Dublin Accord Programmes	Physical
3-4.12.2024	Training on Accreditation Report Writing – ETAC - Sydney Accord Programmes	Physical

MENGAWAL SELIA TATA KELAKUAN ORANG BERDAFTAR

REGULATING CODE OF CONDUCT FOR REGISTERED PERSONS

Fungsi-fungsi Lembaga di bawah Seksyen 4 Akta Pendaftaran Jurutera (REA) 1967 antara lain adalah:

- (a) untuk mendengar dan menentukan pertikaian yang berkaitan dengan tata kelakuan profesional atau etika Orang Berdaftar atau melantik suatu jawatankuasa atau penimbang tara atau penimbang tara-penimbang tara untuk mendengar dan menentukan pertikaian tersebut
- (b) untuk menentukan dan mengawal selia tatakelakuan dan etika profesyen kejuruteraan

Di bawah kuasa itu, Lembaga telah menubuhkan:

- (i) Jawatankuasa Penyiasatan (IC) di bawah Seksyen 24B;
- (ii) Jawatankuasa Tatatertib (DC) di bawah Seksyen 14A dan
- (iii) Sebuah Lembaga Rayuan di bawah Seksyen 20, REA.

Jawatankuasa Penyiasatan (IC)

Bagi setiap kes aduan *Prima Facie* yang diterima oleh Lembaga, sebuah IC akan ditubuhkan terdiri daripada seorang Pengerusi yang merupakan seorang Jurutera Profesional dengan Perakuan Amalan (PEPC) dan dua orang ahli, seorang daripadanya hendaklah merupakan seorang PEPC.

Setelah selesai penyiasatan, Jawatankuasa Penyiasatan hendaklah mengemukakan suatu laporan bersama-sama dengan cadangan, jika ada, kepada Lembaga atau Jawatankuasa Tatatertib untuk pertimbangan.

Jawatankuasa Tatatertib (DC)

Jawatankuasa Tatatertib hendaklah terdiri daripada anggota yang berikut.

- (a) seorang Pengerusi yang hendaklah merupakan seorang Jurutera Profesional dengan Perakuan Amalan;
- (b) seorang Jurutera Profesional yang berdaftar; dan
- (c) seorang Jurutera Profesional dengan Perakuan Amalan.

The functions of the Board under Section 4 of the Registration of Engineers Act (REA) 1967 among others are :

- (a) to hear and determine disputes relating to professional conduct or ethics of registered Persons or to appoint a committee or arbitrator or arbitrators to hear and determine such disputes
- (b) to determine and regulate the conduct and ethic of the engineering profession

Under such power, the Board has set up:

- (i) Investigating Committee (IC) under Section 24B;
- (ii) Disciplinary Committee (DC) under Section 14A and
- (iii) an Appeal Board under Section 20 of the REA.

The Investigating Committee (IC)

For each *Prima Facie* complaint received by the Board, an IC shall be formed comprising of a Chairman who shall be a registered Professional Engineer with Practising Certificate (PEPC) and two members, one of whom shall be a PEPC.

Upon completion of an investigation, the Investigating Committee shall submit a report together with its recommendations, if any, to the Board or Disciplinary Committee for its consideration.

The Disciplinary Committee (DC)

The Disciplinary Committee shall consist of the following members:

- (a) a Chairman who shall be a registered Professional Engineer with Practising Certificate;
- (b) a registered Professional Engineer; and
- (c) a registered Professional Engineer with Practising Certificate.

Terma Rujukan

- (a) hendaklah mengadakan perbicaraan terhadap mana-mana salah laku atau aduan terhadap mana-mana Orang Berdaftar yang dirujuk kepadanya oleh Jawatankuasa Penyiasatan;
- (b) boleh membuat mana-mana atau apa-apa kombinasi perintah yang dinyatakan dalam seksyen 15 terhadap Orang Berdaftar di bawah apa-apa keadaan yang dinyatakan dalam seksyen itu.

Lembaga Rayuan

Mana-mana jurutera yang tidak berpuas hati dengan perintah Jawatankuasa Tatatertib atau Lembaga yang dibuat di bawah subseksyen 15 (1A) atau 7A (5), boleh dalam masa 21 hari selepas diberitahu berkenaan penolakan, syarat, sekatan, pemotongan atau perintah, merayu kepada Lembaga Rayuan yang ditubuhkan di bawah seksyen 20 dan Lembaga Rayuan sesudah itu boleh membuat apa-apa perintah yang difikirkannya adil atau patut.

Lembaga Rayuan hendaklah terdiri daripada seorang Hakim Mahkamah Tinggi sebagai Pengerusi dan dua orang lain yang dilantik oleh Yang di-Pertuan Agong.

Selepas mendengar rayuan itu Lembaga Rayuan boleh mengesahkan atau mengubah keputusan Lembaga atau Jawatankuasa Tatatertib. Keputusan Lembaga Rayuan adalah muktamad.

Terms of Reference

- (a) shall conduct hearings of any misconduct or complaint against any registered Person referred to it by the Investigating Committee;
- (b) may make any or any combination of the orders specified in section 15 against a registered Person under such circumstances as set out in that section.

Appeal Board

Any engineer who is not satisfied with an order of the Disciplinary Committee or Board made under subsection 15(1 A) or 7 A (5), may within twenty-one days of being notified of the refusal, conditions, restrictions, removal or order, appeal to the Appeal Board constituted under section 20 and the Appeal Board may thereupon make such orders as it may deem just or proper.

The Appeal Board shall consist of a Judge of the High Court as Chairman and two other persons appointed by the Yang di-Pertuan Agong.

The Appeal Board after hearing the appeal may confirm or vary the decision of the Board or Disciplinary Committee. The decision of the Appeal Board shall be final.



MEMASTIKAN KOMPETENSI JURUTERA PROFESIONAL

ENSURING THE COMPETENCY OF PROFESSIONAL ENGINEERS

PEPERIKSAAN KECEKAPAN PROFESSIONAL (PCE)

PENGENALAN

Pindaan Akta Pendaftaran Jurutera 1967 pada 2015 “Akta” memperkenalkan kategori baru iaitu Jurutera Profesional dengan Perakuan Amalan untuk jurutera yang terlibat dengan pengemukakan pelan kepada Majlis Berkuasa Tempatan. Oleh yang demikian tahap kecekapan mereka perlu diuji sebagai orang yang mengemukakan.

Seksyen 4(1)(ed)(ii) Akta memberi kuasa kepada Lembaga untuk menjalankan peperiksaan kecekapan profesional untuk tujuan mengeluarkan Perakuan Amalan kepada Jurutera Profesional.

Format Peperiksaan Kecekapan Profesional

Peperiksaan Kecekapan Profesional (PCE) menguji calon di dalam lingkungan perkhidmatan kejuruteraan profesional, sebagaimana ditafirikan oleh Akta, dalam disiplin kejuruteraan Awam & Struktur, Mekanikal dan Elektrikal serta bidang kejuruteraan lain.

Peperiksaan itu juga akan menguji pengetahuan, pengalaman dan aplikasi calon dalam :

- (a) amalan kejuruteraan di Malaysia;
- (b) Kod berkanun, peraturan-peraturan; dan
- (c) standard profesionalisme dan tata kelakuan profesional

Peperiksaan Kecekapan Profesional terbahagi kepada dua bahagian seperti berikut:

- (a) Bahagian 1 – Kertas Am
- (b) Bahagian 2 – Kertas Teknikal

PROFESSIONAL COMPETENCY EXAMINATION (PCE)

INTRODUCTION

The Amendment to Registration of Engineers Act 1967 in 2015 “the Act” had introduced a new category of registration ie. Professional Engineer with Practising Certificate for those involved with submission of plan to Local Authority. Hence they would need to be examined on their competency to be a submitting engineer.

Section 4(1)(ed)(ii) of the Act empowers the Board to conduct a professional competency examination for the purpose of issuing a Practising Certificate to the Professional Engineer.

Format of Professional Competency Examinations

The Professional Competency Examinations (PCE) will test candidates within the limits of “professional engineering services” defined by the Act which will be in the engineering disciplines of Civil & Structural, Mechanical and Electrical.

The examination will test the candidate’s knowledge, experience and application of:

- (a) engineering practice in Malaysia;
- (b) Statutory codes, regulations; and
- (c) standards of professionalism and ethical behaviour.

The Professional Competency Examinations shall be in two (2) parts as follows:

- (a) Part 1 – Common Paper
- (b) Part 2 - Technical paper

LJM telah menjalankan PCE dalam tahun 2016, 2017, 2018, 2019, 2021, 2022, 2023 dan 2024. Pada tahun 2024, PCE telah diadakan serentak di tiga lokasi berbeza iaitu di Universiti Malaya, Kuala Lumpur, di Kuching, Sarawak dan di Kota Kinabalu, Sabah pada 22 dan 23 Oktober 2024. Seramai 506 orang calon telah mendaftar bagi peperiksaan tersebut dengan jumlah seperti berikut:

- 254 calon (Awam)
- 128 calon (Elektrik)
- 95 calon (Mekanikal)
- 7 calon (Geoteknik)
- 5 calon (Kimia)
- 5 calon (Pelombongan)
- 4 calon (Alam Sekitar)
- 6 calon (Pengangkutan)
- 2 calon (Struktur)

Webinar PCE 2024

LJM telah berjaya mengendalikan webinar PCE pada 30.9.2024 bertujuan memberi penerangan berkenaan peperiksaan PCE dan menjawab persoalan secara terus daripada peserta webinar dengan isi kandungan seperti berikut:

- Penerangan keperluan PKP
- Silibus dan contoh-contoh soalan
- Sesi soal jawab bersama pemeriksa

Webinar PCE tersebut juga telah menerangkan *Do's & Don't's* ketika menjawab Kertas 2 bagi Kertas Am, Awam, Mekanikal dan Elektrikal dengan merujuk kepada soalan sebenar PCE tahun-tahun yang lepas.

BEM has conducted PCE in 2016, 2017, 2018, 2019, 2021, 2022, 2023 and 2024. In 2024, PCE was held simultaneously at three different locations on 22nd and 23rd October at three different locations namely Kuala Lumpur, Kuching, Sarawak and Kota Kinabalu, Sabah. A total of 506 candidates enrolled for the examination in the following branch of engineering:

- 254 candidates (Civil)
- 128 candidates (Electrical)
- 95 candidates (Mechanical)
- 7 candidates (Geotechnical)
- 5 candidates (Chemical)
- 5 candidates (Mining)
- 4 candidates (Environmental)
- 6 candidates (Transportation)
- 2 candidates (Structural)

PCE Webinar 2024

BEM had successfully conducted PCE Webinar on 30.9.2024 aimed at providing an explanation regarding the PCE examination and answering participants' questions directly. The content of the webinar included the following:

- Explanation on requirements of PCE
- Syllabus and sample questions
- Q&A session with the Examiners

The PCE webinar also covered the *Do's and Don't's* when answering Paper 2 for the General, Civil, Mechanical, and Electrical Papers, using actual past PCE questions as reference.



PENILAIAN TATA KELAKUAN PROFESIONAL UNTUK JURUTERA DENGAN KELAYAKAN PROFESIONAL DARI LUAR NEGARA

Code of Professional Conduct Assessment for Engineers with Overseas Professional Qualification

Seksyen 10(2)(B) Akta Pendaftaran Jurutera 1967 (Pindaan 2015) menyatakan bahawa seseorang yang “mempunyai kelayakan profesional yang dianggap oleh Lembaga setaraf dengan peperiksaan penilaian profesional yang dijalankan oleh Lembaga” dan “yang telah mematuhi kehendak sebagaimana yang ditentukan oleh Lembaga” boleh mengemukakan permohonan untuk didaftarkan sebagai Jurutera Profesional (PE).

LJM pada 16hb Ogos 2018 telah memutuskan bahawa semua pemohon yang berkeelayakan wajib menduduki Penilaian Tata Kelakuan Profesional seperti termaktub di bawah seksyen 10(2)(B) Akta Pendaftaran Jurutera 1967 (Pindaan 2015).

Pada 1hb Ogos 2021, LJM telah melancarkan permohonan Penilaian Tata Kelakuan Profesional secara atas talian di portal MyBEM di www.engineer.org.my. Pemohon kini boleh mengemukakan permohonan secara atas talian di laman tersebut.

Sejumlah 145 orang calon telah menduduki Penilaian Tata Kelakuan Profesional sepanjang tahun 2024.

Keputusan Penilaian adalah seperti berikut:

Section 10(2)(B) of the Registration of Engineers Act 1967 (Revised 2015) states that “any person who holds a professional qualification which the Board considers to be equivalent to the professional assessment examination conducted by the Board” and “who has complied with the requirements as determined by the Board” shall be entitled on application to be registered as Professional Engineers (PE).

BEM on 16th August 2018 has decided to impose assessment on ‘Code of Professional Conduct’ for all eligible applicants in accordance to section (10)(2)(B) of the Registration of Engineers Act 1967 (Revised 2015).

BEM on 1st August 2021 has launched online application for Code of Professional Conduct Assessment on MyBEM at www.engineer.org.my. Applicant now may submit online application via MyBEM.

A total of 145 applicants has sat for the assessment on ‘Code of Professional Conduct’ in 2024.

The results for the assessment are as follows:

Perbandingan Keputusan Penilaian Tata Kelakuan Profesional 2020 - 2024
Comparison of Code of Professional Conduct Assessment 2020 – 2024

Tahun Year	Jumlah Total	Lulus Pass	Gagal Fail
2020	43	38	5
2021	49	41	8
2022	134	110	24
2023	101	90	11
2024	145	101	8

PEPERIKSAAN PENILAIAN PROFESIONAL (PAE) LALUAN A *PROFESSIONAL ASSESSMENT EXAMINATION ROUTE A (PAE) ROUTE A*

PROFESSIONAL ASSESSMENT EXAMINATION (PAE)

Professional Assessment Examination (PAE) Laluan A diperkenalkan pada 1990 oleh LJM berdasarkan model yang digunapakai oleh 'Professional Review of Institution of Civil Engineers (ICE) of Engineering Council United Kingdom (ECUK)'.

Pada mulanya, LJM melantik sendiri panel untuk mengendalikan PAE. Walau bagaimanapun, bermula tahun 2001, LJM telah melantik pihak ketiga iaitu Institusi Jurutera Malaysia (IEM) untuk mengendalikan permohonan PAE Laluan A. Kemudian, LJM melantik 'Malaysian Society for Engineering & Technology (MySET)' pada tahun 2014 dan 'Association of Consulting Engineers Malaysia (ACEM)' pada 20 Mac 2023.

Pengenalan Format Baharu Penilaian Berasaskan Hasil LJM

PAE Berasaskan Hasil LJM telah mula diperkenalkan pada Julai 2022 dan dilaksanakan sepenuhnya pada 1 Januari 2024.

Format Baharu PAE Berasaskan Hasil LJM adalah selari dengan langkah global untuk mendapatkan pengiktirafan antarabangsa dalam komuniti kejuruteraan antarabangsa yang menuju ke arah penilaian berasaskan hasil. Dengan kaedah penilaian ini, PAE akan setanding dengan amalan terbaik antarabangsa.

Objektif utama penilaian ini adalah untuk mengenal pasti sama ada pengalaman dan latihan calon PAE memenuhi tahap kecekapan yang diperlukan oleh seorang Jurutera Profesional. Dua pemeriksa PAE akan menjalankan temuduga secara mendalam untuk menilai dan mengesahkan pengalaman praktikal calon seperti yang diisytiharkan dalam borang permohonan dan laporan pengalaman dan latihan.

PROFESSIONAL ASSESSMENT EXAMINATION (PAE)

Professional Assessment Examination (PAE) Route A was introduced in 1990 based on the model adopted by the Professional Review of the Institution of Civil Engineers (ICE) under the Engineering Council United Kingdom (ECUK).

Initially, BEM appointed its own panel to conduct the PAE. However, beginning 2001, BEM outsourced the assessment to conduct PAE Route A to The Institution of Engineers, Malaysia (IEM). Subsequently, BEM appointed the Malaysian Society for Engineering & Technology (MySET) in 2014 and the Association of Consulting Engineers Malaysia (ACEM) on 20th March 2023.

Introduction of the New BEM Outcome-Based PAE

BEM Outcome-Based PAE has been introduced in July 2022 and has been implemented fully starting 1st January 2024.

The BEM Outcome-Based PAE is in line with the global move in the international engineering communities towards an outcome-based competence assessment for international recognition. With this assessment method, the PAE would be on par with the international best practices.

The main objective is to confirm whether the candidate's training and experience has satisfactorily met the competence (outcome) required for a professional engineer. Two PAE examiners will conduct an in-depth interview to authenticate the candidate's practical experience as presented by the evidence provided in the application form as well as the training & experience report, and to verify the competence presented therein.

Webinar dan Bengkel Latihan untuk Pemeriksa PAE Berasaskan Hasil

Selaras dengan pengenalan format baharu PAE Berasaskan Hasil, LJM telah mengadakan siri webinar dan bengkel latihan di Petaling Jaya, Kuching, Kota Kinabalu, Johor Bahru, Kuantan, dan Pulau Pinang untuk melatih Jurutera Profesional (PE) / Jurutera Profesional dengan Perakuan Amalan (PEPC) yang telah berdaftar dengan LJM selama sekurang-kurangnya lima (5) tahun dan berminat untuk menjadi Pemeriksa PAE Berasaskan Hasil.

Sejak tahun 2022 sehingga kini, LJM telah berjaya melatih seramai 521 orang pemeriksa PAE Berasaskan Hasil.

Webinar and Training Workshop for Outcome-Based PAE Examiners

In line with the introduction of Outcome-Based PAE format, BEM has conducted a series of webinars and training workshops in Petaling Jaya, Kuching, Kota Kinabalu, Johor Bahru, Kuantan and Penang to train Professional Engineer (PE) / Professional Engineer with Practising Certificate (PEPC) who have been registered with BEM for at least five (5) years and are interested in becoming Outcome-Based PAE Examiners.

Since year 2022 until to date, BEM has successfully trained a total of 521 OBE-PAE examiners

Statistik PAE yang dijalankan oleh Pembekal Perkhidmatan pada tahun 2020 - 2024
Statistics of PAE conducted by Service Supplier for year 2020 – 2024

Pembekal Perkhidmatan Service Supplier	2020	2021	2022	2023	2024
IEM	107	134	259	282	383
MySET	103	146	279	430	401
ACEM	-	-	-	122	297
JUMLAH TOTAL	210	280	538	834	1,081



PROGRAM KEPIMPINAN DAN PENGURUSAN BEM *BEM LEADERSHIP AND MANAGEMENT PROGRAM*

LJM telah memperkenalkan Program Kepimpinan dan Pengurusan LJM dengan kerjasama Universiti Utara Malaysia (UUM) pada tahun 2023.

Objektif program ini adalah untuk mewujudkan sebuah platform bagi membangunkan kemahiran kepimpinan dan pengurusan dalam kalangan jurutera teknikal untuk meningkatkan kemahiran insaniah, pengurusan dan kepimpinan bagi mempersiapkan mereka menjadi pemimpin dalam syarikat atau organisasi yang berkaitan dengan profesion dan aktiviti kejuruteraan.

Kohort pertama telah bermula pada 3 Februari 2023 dan berakhir pada 27 Jun 2024 disusuli dengan Majlis Penganugerahan pada 2 Oktober 2024.

Seramai 29 jurutera telah berjaya menamatkan program ini dan telah dianugerahkan Sijil Kepimpinan dan Pengurusan LJM.

Program ini mencerminkan komitmen berterusan LJM terhadap pembangunan profesional berterusan serta usaha melahirkan pemimpin kejuruteraan yang berdaya saing bagi memacu kemajuan dan inovasi dalam sektor kejuruteraan negara.

BEM has introduced BEM Leadership and Management Program, in collaboration with Universiti Utara Malaysia (UUM) in 2023.

The objective of this program is to create a platform to develop leadership and management skills of technical engineers to enhance their soft skill, management skill and leadership skill in order to prepare themselves to become leaders in a company/ organization related to engineering professions and activities.

The first cohort began on 3rd February 2023 and concluded on 27th June 2024 with a conferment ceremony on 2nd October 2024.

A total of 29 engineers successfully completed the program and were awarded the BEM Leadership and Management Certificate.

This program reflects BEM's commitment to continuous professional development and the cultivation of engineering leaders who can drive progress and innovation in Malaysia's engineering sector.



LAPORAN TAHUNAN 2024

ANNUAL REPORT



PENCAPAIAN 2024

ACHIEVEMENT 2024

PENCAPAIAN 2024

ACHIEVEMENT 2024

Statistik Utama

Main Statistics

Jumlah Pendaftaran Mengikut Kategori sehingga 31.12.2024
Total Registration by Category as at 31.12.2024

Pendaftaran Individu

Registered Persons

Kategori	2023	2024
Jurutera Profesional dengan Perakuan Amalan (Professional Engineer with Practising Certificate)	10,788	10,855
Jurutera Profesional * Professional Engineer *	23,595	24,904
Pemeriksa Bertauliah Accredited Checkers	42	43
Jurutera Siswazah Graduate Engineers	195,521	211,756
Teknologis Kejuruteraan Engineering Technologist	15,269	16,715
Pemeriksa Tapak Inspector of Works	9,782	10,829

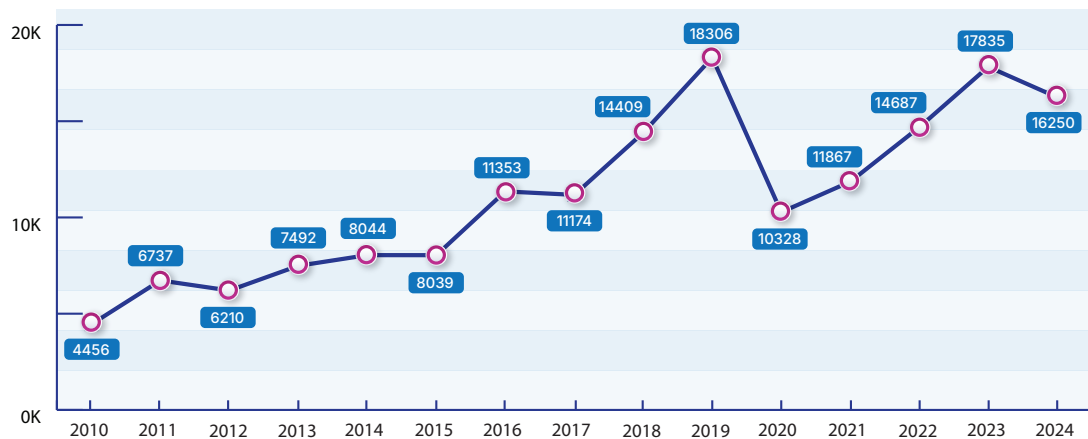
Nota *: Termasuk Jurutera Profesional dengan Perakuan Amalan
Note *: Including Professional Engineer with Practising Certificate.

Syarikat Amalan Perunding Kejuruteraan

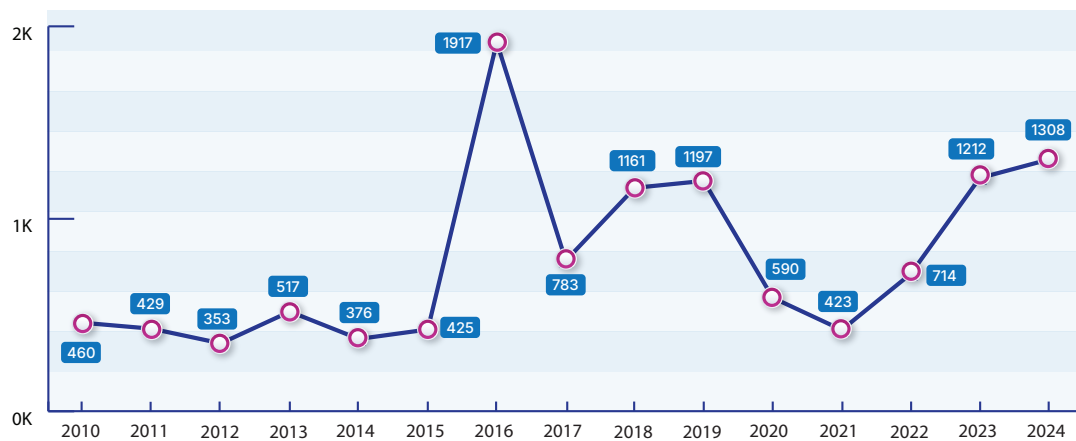
Engineering Consultancy Practices

Kategori	2023	2024
Pertubuhan Perbadanan (Seksyen 7A) Body Corporate	1,798	1,864
Pertubuhan Perbadanan - Amalan Multi Disiplin (seksyen 7B) [Kejuruteraan sahaja] Body Corporate – Multi Disciplinary Practice (section 7B) [Engineering only]	75	79
Perkongsian Partnership	362	365
Pemilik Tunggal Sole Proprietorship	1,900	1,945

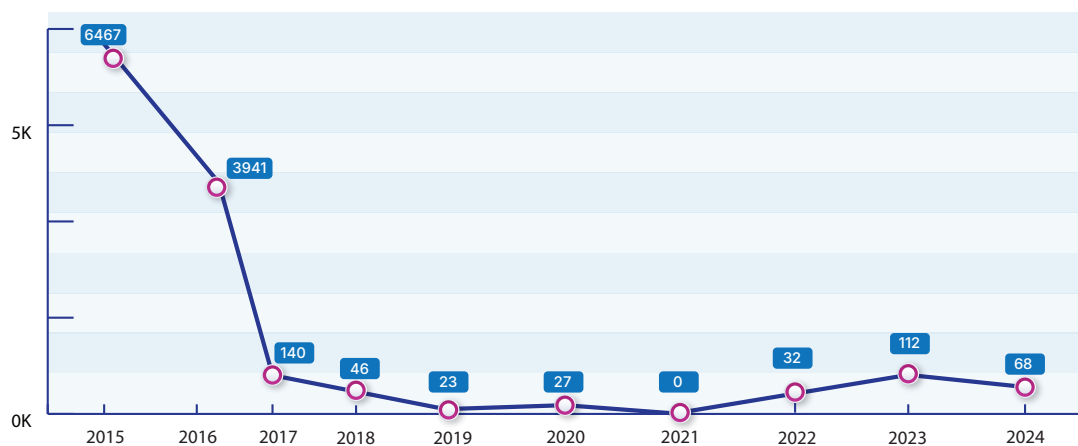
BILANGAN JURUTERA SISWAZAH BERDAFTAR MENGIKUT TAHUN (2010-2024)
NUMBER OF REGISTERED GRADUATE ENGINEER BY YEAR (2010-2024)



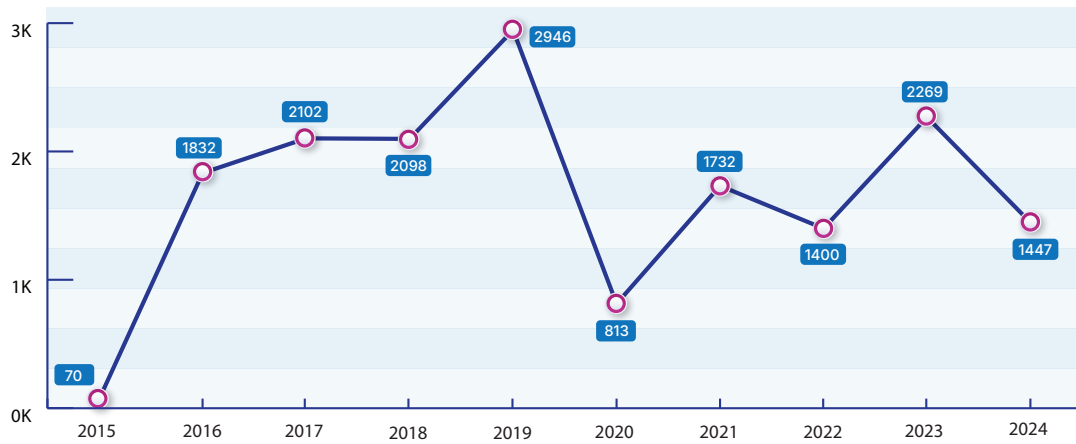
BILANGAN JURUTERA PROFESIONAL BERDAFTAR MENGIKUT TAHUN (2010-2024)
NUMBER OF REGISTERED PROFESSIONAL ENGINEER BY YEAR (2010-2024)



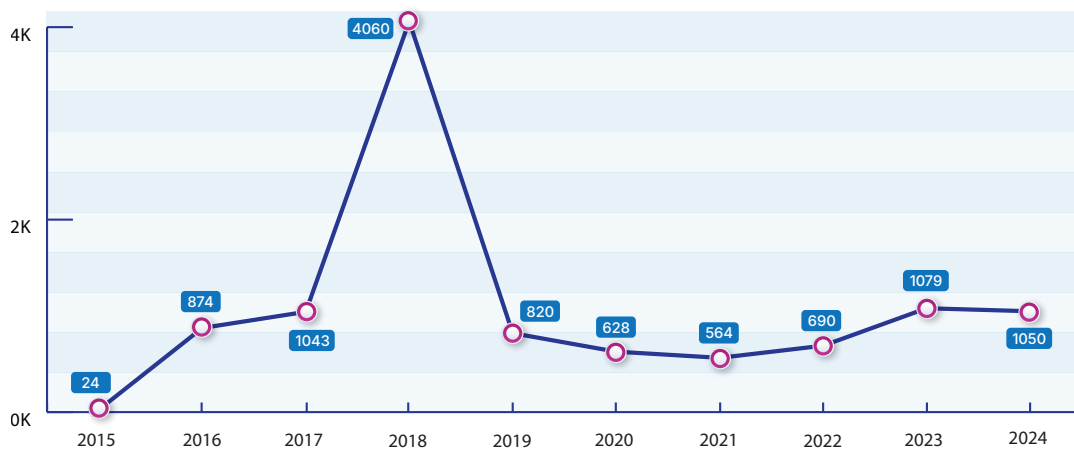
BILANGAN JURUTERA PROFESIONAL DENGAN PERAKUAN AMALAN BERDAFTAR MENGIKUT TAHUN (2015-2024)
NUMBER OF REGISTERED PROFESSIONAL ENGINEER WITH PRACTISING CERTIFICATE BY YEAR (2015-2024)



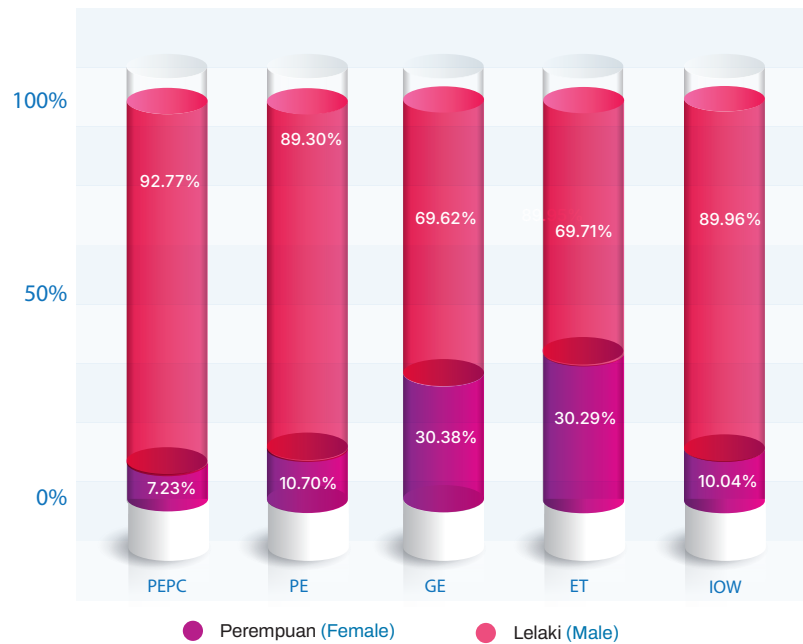
BILANGAN TEKNOLOGIS KEJURUTERAAN BERDAFTAR MENGIKUT TAHUN (2015-2024)
NUMBER OF REGISTERED ENGINEERING TECHNOLOGIST BY YEAR (2015-2024)



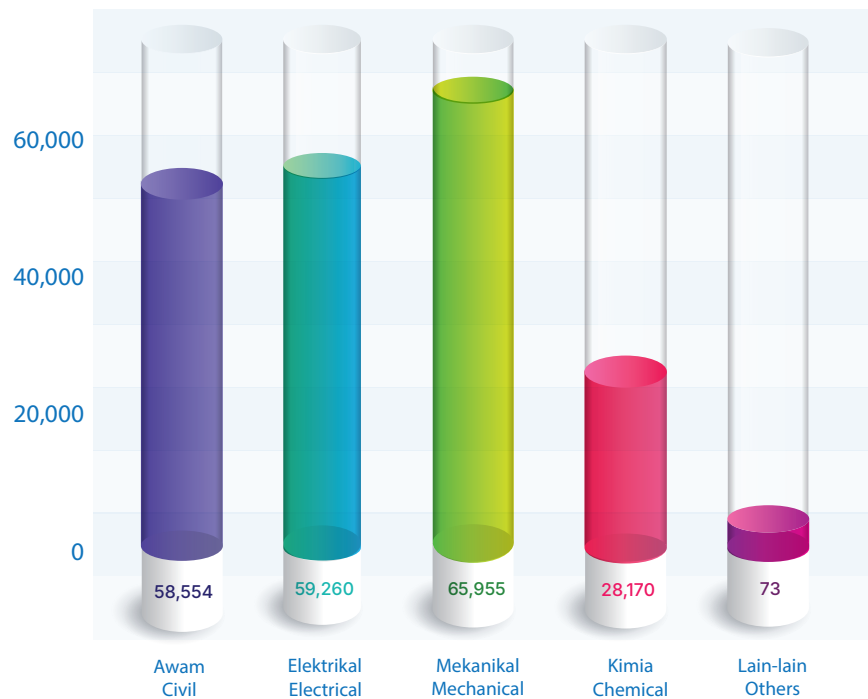
BILANGAN PEMERIKSA TAPAK BERDAFTAR MENGIKUT TAHUN (2015-2024)
NUMBER OF REGISTERED INSPECTOR OF WORKS BY YEAR (2015-2024)



PERATUSAN ORANG BERDAFTAR MENGIKUT JANTINA SEHINGGA 31.12.2024
PERCENTAGE OF REGISTERED PERSON BY GENDER AS AT 31.12.2024



BILANGAN JURUTERA SISWAZAH BERDAFTAR MENGIKUT DISIPLIN (2010-2024)
NUMBER OF REGISTERED GRADUATE ENGINEER BY DISCIPLINE (2010-2024)



Kategori:

PEPC: Jurutera Profesional dengan Perakuan Amalan / Professional Engineer with Practising Certificate

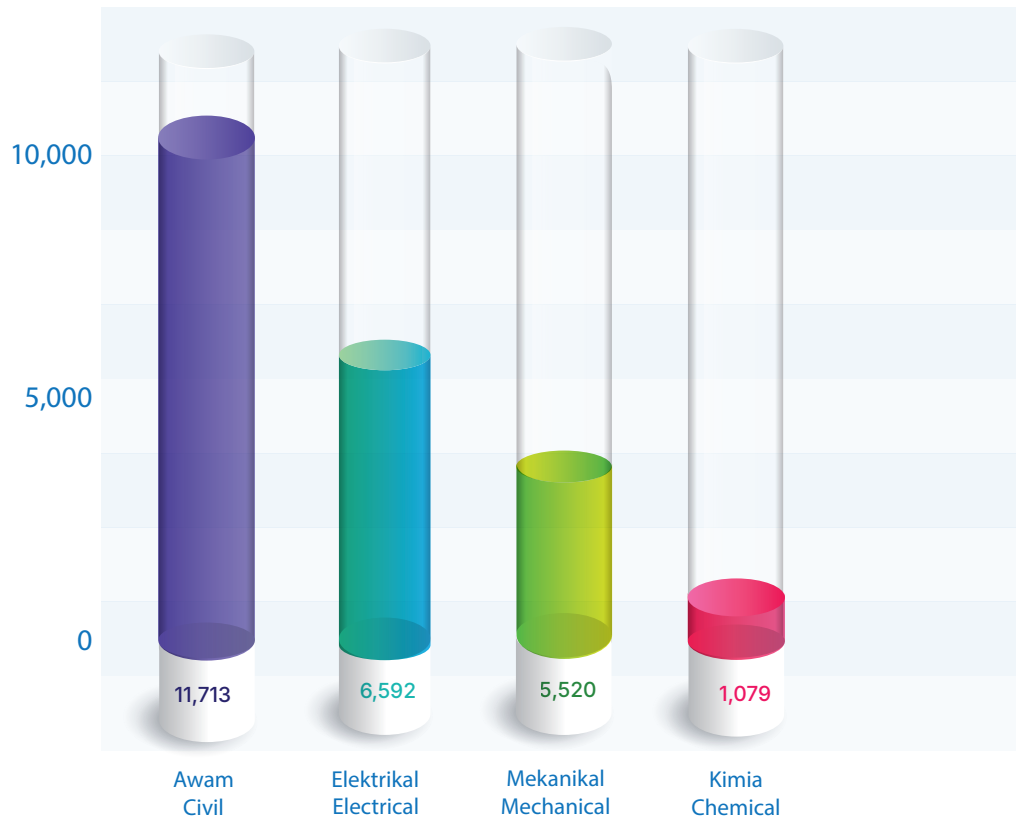
PE: Jurutera Profesional / Professional Engineer

GE: Jurutera Siswazah / Graduate Engineer

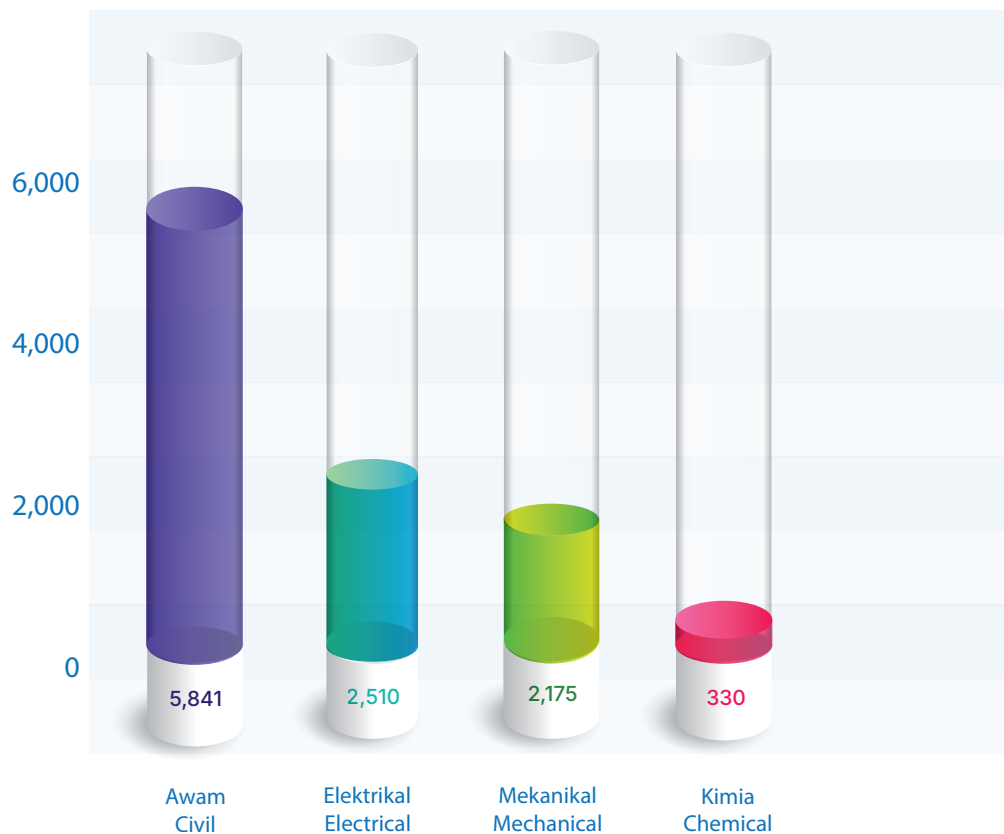
ET: Teknologis Kejuruteraan / Engineering Technologist

IOW: Pemeriksa Tapak / Inspector of Works

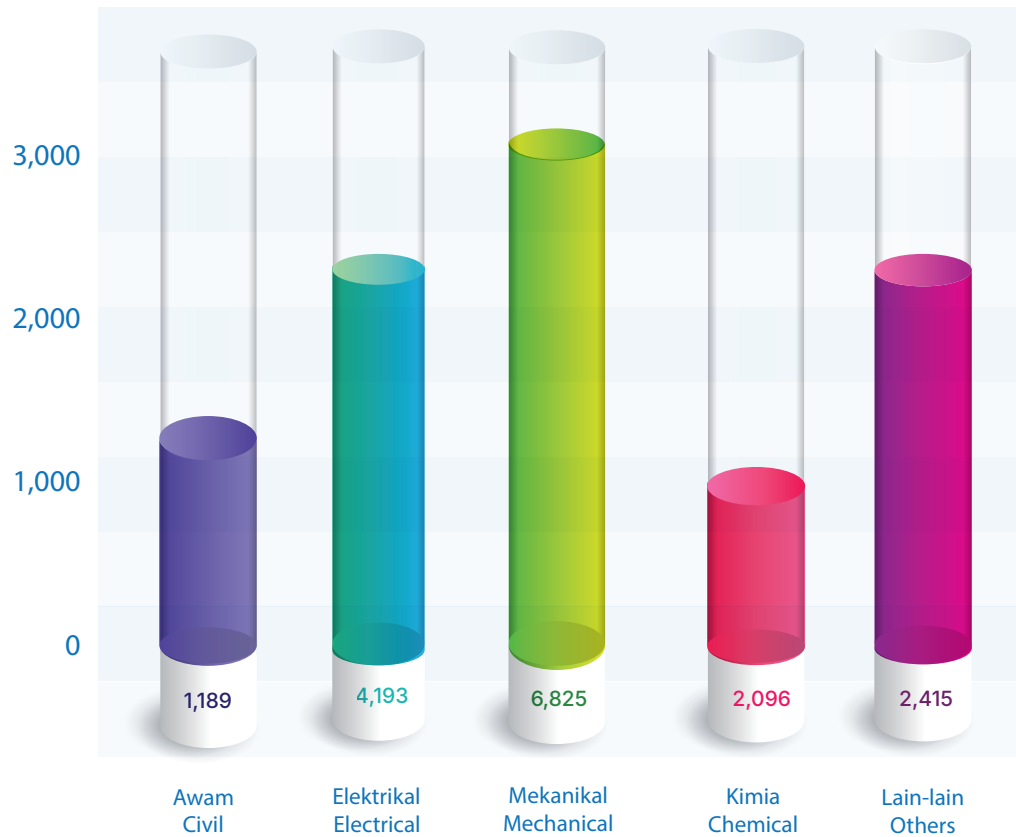
BILANGAN JURUTERA PROFESIONAL BERDAFTAR MENGIKUT DISIPLIN (2010-2024)
NUMBER OF REGISTERED PROFESSIONAL ENGINEER BY DISCIPLINE (2010-2024)



BILANGAN JURUTERA PROFESIONAL DENGAN PERAKUAN AMALAN BERDAFTAR MENGIKUT DISIPLIN
(2015-2024)
*NUMBER OF REGISTERED PROFESSIONAL ENGINEER WITH PRACTISING CERTIFICATE BY DISCIPLINE
(2015-2024)*



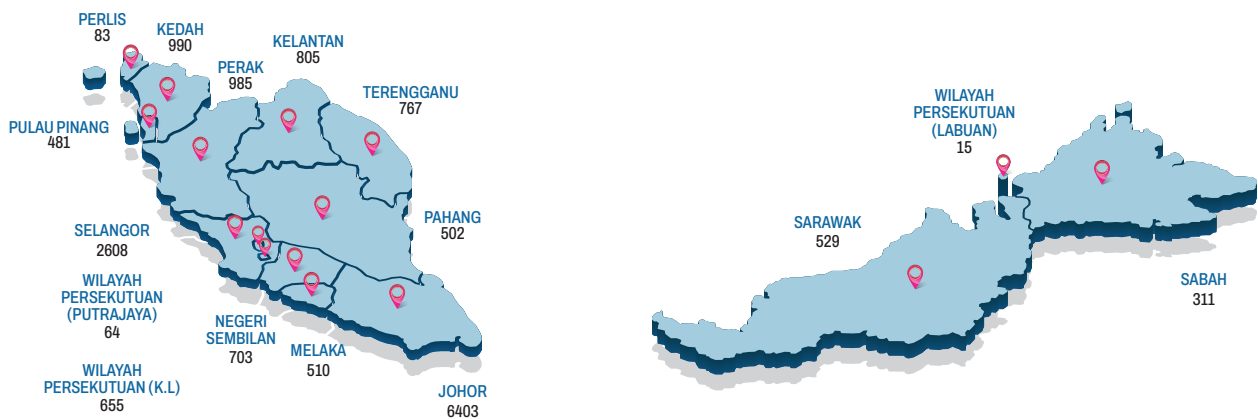
BILANGAN TEKNOLOGIS KEJURUTERAAN BERDAFTAR MENGIKUT DISIPLIN (TAHUN 2010-2024)
NUMBER OF REGISTERED ENGINEERING TECHNOLOGIST BY DISCIPLINE (FOR YEAR 2010-2024)



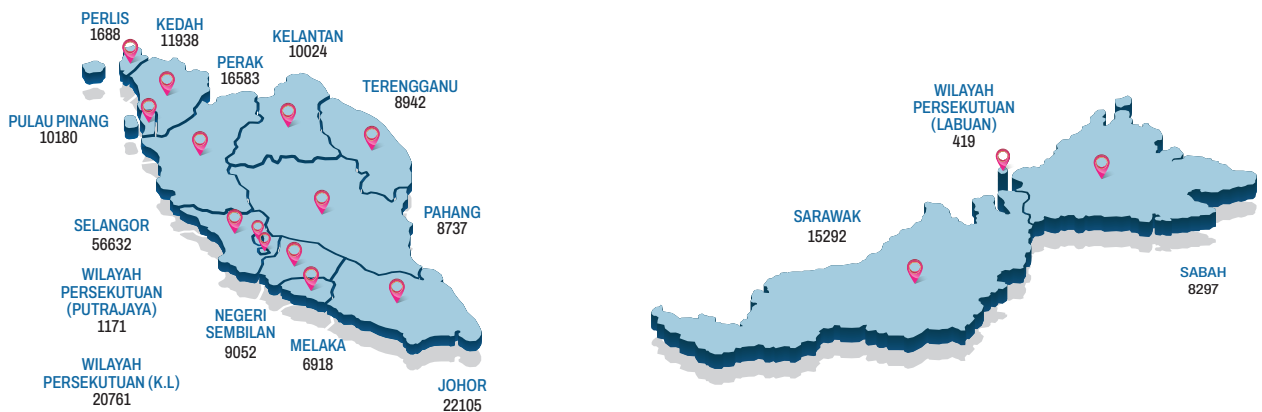
BILANGAN PEMERIKSA BERTAULIAH BERDAFTAR MENGIKUT NEGERI SEHINGGA 31.12.2024
NUMBER OF REGISTERED ACCREDITED CHECKER BY STATES AS AT 31.12.2024

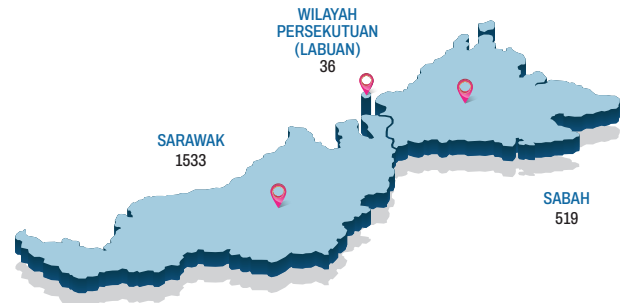
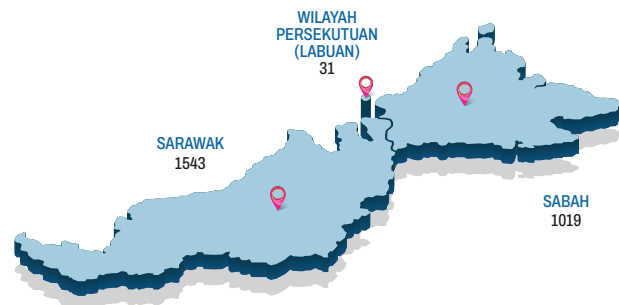
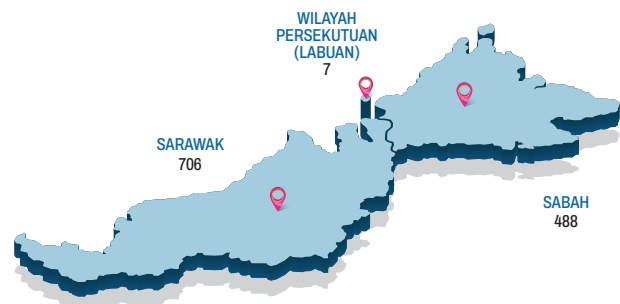


BILANGAN TEKNOLOGIS KEJURUTERAAN BERDAFTAR MENGIKUT NEGERI SEHINGGA 31.12.2024
NUMBER OF REGISTERED ENGINEERING TECHNOLOGIST BY STATES AS AT 31.12.2024



BILANGAN JURUTERA SISWAZAH BERDAFTAR MENGIKUT NEGERI SEHINGGA 31.12.2024
NUMBER OF REGISTERED GRADUATE ENGINEER BY STATES AS AT 31.12.2024



BILANGAN PEMERIKSA TAPAK BERDAFTAR MENGIKUT NEGERI SEHINGGA 31.12.2024
NUMBER OF REGISTERED INSPECTOR OF WORKS BY STATES AS AT 31.12.2024**BILANGAN JURUTERA PROFESIONAL BERDAFTAR MENGIKUT NEGERI SEHINGGA 31.12.2024**
NUMBER OF REGISTERED PROFESSIONAL ENGINEER BY STATES AS AT 31.12.2024**BILANGAN JURUTERA PROFESIONAL DENGAN PERAKUAN AMALAN BERDAFTAR MENGIKUT NEGERI SEHINGGA 31.12.2024**
NUMBER OF REGISTERED PROFESSIONAL ENGINEER WITH PRACTISING CERTIFICATE BY STATES AS AT 31.12.2024

ADUAN (TATA KELAKUAN) TERHADAP ORANG BERDAFTAR
YANG DITERIMA DALAM TAHUN 2024
*COMPLAINT (CODE OF CONDUCT) AGAINST REGISTERED PERSON
RECEIVED IN YEAR 2024*

ADUAN DITERIMA DALAM TAHUN 2024
COMPLAINT RECEIVED IN YEAR 2024

Kes Tatalaku <i>Code of Conduct Cases</i>			
Kes Baru <i>New Cases</i>	Prima Facie <i>(untuk siasatan/for investigation)</i>		Dalam Proses <i>Under Process</i>
	Tidak <i>No</i>	Ya <i>Yes</i>	
43	19	17	7

Status/Keputusan Penyiasatan Tahun 2024 <i>Status/Decision of Investigating Committee in 2024</i>			Perbicaraan oleh Jawatankuasa Disiplin Tahun 2024 <i>Hearing by Disciplinary Committee in 2024</i>		Rayuan Kepada Lembaga Rayuan Tahun 2024 <i>Appeal to Appeal Board in 2024</i>	
Tiada Kes <i>No Case</i>	Dicadangkan untuk Perbicaraan <i>Recommend for Hearing</i>	Dalam Proses <i>Under Process</i>	Bersalah <i>Guilty</i>	Tidak Bersalah <i>Not Guilty</i>	Dikekalkan <i>Upheld</i>	Diterima <i>Accepted</i>
5	6	4	10	4	2	-

Angka tersebut merangkumi kes yang dibawa ke hadapan dari tahun-tahun sebelumnya dan tidak semestinya termasuk semua kes prima facie yang dimuktamadkan oleh Jawatankuasa Amalan Ikhtisas tetapi tidak disahkan oleh Lembaga pada tahun berakhir.

The figure includes cases brought forward from previous years and may not necessarily include all prima facie cases concluded by Professional Practice Committee but not endorsed by the Board by year end.

PENGIKTIRAFAN PROGRAM KEJURUTERAAN ACCREDITATION OF ENGINEERING PROGRAMMES

EAC mempunyai sebanyak 251 program kejuruteraan yang aktif pada 31 Disember 2024 seperti yang tertera dalam Jadual 1. Program ini adalah setara dengan semua program kejuruteraan di peringkat WA.

Pada tahun 2024, EAC telah mengadakan penilaian akreditasi di 51 buah IPT, melibatkan sebanyak 85 program kejuruteraan. Semua penilaian telah berjalan secara fizikal dan secara desktop review.

The EAC has a total of 251 active engineering programmes as of December 31, 2024 as shown in Table 1. These programmes have met the equivalent engineering standards at the WA level.

In 2024, EAC has conducted accreditation to 51 IHL involving 85 engineering programmes. All reviews were conducted physically and in desktop modes.

Jadual 1: Program Kejuruteraan yang Aktif pada 31 Disember 2024
Table 1: Active Engineering Programmes as at 31 December 2024

Bil. No.	Universiti Awam/ Public University	Bil. Program No. of Programmes
1.	University Islam Antarabangsa Malaysia (UIAM - IIUM)	9
2.	Universiti Teknologi MARA (UiTM), Penang	4
3.	Universiti Teknologi MARA (UiTM), Shah Alam	6
4.	Universiti Kebangsaan Malaysia (UKM)	5
5.	Universiti Malaya (UM)	5
6.	Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)	12
7.	Universiti Malaysia Sabah (UMS)	6
8.	Universiti Malaysia Perlis (UNIMAP)	18
9.	Universiti Malaysia Sarawak (UNIMAS)	5
10.	Universiti Putra Malaysia (UPM)	8
11.	Universiti Pertahanan Nasional Malaysia (UPNM)	4
12.	Univesiti Sains Malaysia (USM, Penang)	11
13.	Universiti Sains Islam Malaysia (USIM)	2
14.	Universiti Teknikal Malaysia Melaka (UTEM)	5
15.	Universiti Tun Hussein Onn Malaysia (UTHM)	4
16.	Universiti Teknologi Malaysia (UTM)	24
17.	Malaysia-Japan Internasional Institute of Technology (MJIIT) –UTM	3
Bil. No.	Universiti Swasta/ Private University	Bil. Program No. of Programme
18.	AIMST University	1
19.	Asia Pacific University of Technology & Innovation (APU)	5
20.	Curtin University Malaysia	6
21.	Heriot-Watt University Malaysia Campus	4
22.	INTI International University	2
23.	Infrastructure University Kuala Lumpur	3
24.	UOW Malaysia KDU University College, Utropolis Glenmarie	3
25.	MAHSA University	2
26.	Manipal International University (MIU)	5
27.	Multimedia University (MMU), Cyberjaya	5

Bil. No.	Universiti Swasta/ Private University	Bil. Program No. of Programme
28.	Multimedia University (MMU), Melaka	3
29.	Monash University Malaysia	5
30.	SEGi University	4
31.	Southern University College	1
32.	Swinburne University of Technology	5
33.	Tunku Abdul Rahman University College (TARC)	4
34.	Taylor's University	3
35.	UCSI University	8
36.	University of Technology Sarawak (UTS)	3
37.	University of Nottingham (UNM)	6
38.	Universiti Selangor (UNISEL)	3
39.	Universiti Tenaga Nasional (UNITEN)	5
40.	Universiti Tunku Abdul Rahman (UTAR), Sg. Long	9
41.	Universiti Tunku Abdul Rahman (UTAR), Kampar, Perak	4
42.	Universiti Teknologi Petronas (UTP)	7
43.	Universiti Kuala Lumpur - British Malaysian Institute (UNIKL- BMI)	1
44.	Universiti Kuala Lumpur - Malaysian Institute of Chemical and Bio-Engineering Technology- (UNIKL MICET)	1
45.	Universiti Kuala Lumpur - Malaysia France Institute (UNIKL MFI)	1
46.	Universiti Kuala Lumpur - Malaysia Spanish Institute (UNIKL MSI)	1
47.	Quest International University (QIU)	1
48.	Limkokwing University of Creative Technology (LUCT)	1
49.	Xiamen University	2
50.	University Malaysia of Computer Science & Engineering (UNIMY)	1
51.	City University	2
52.	First City University College (FCUC)	2
Jumlah Keseluruhan Grand Total		251

PENGIKTIRAFAN PROGRAM TEKNOLOGI KEJURUTERAAN & PROGRAM JURUTEKNIK KEJURUTERAAN

ACCREDITATION OF ENGINEERING TECHNOLOGY PROGRAMMES & ENGINEERING TECHNICIAN PROGRAMMES

ETAC mempunyai sebanyak 95 program ijazah teknologi kejuruteraan dan 281 program diploma kejuruteraan yang aktif pada 31 Disember 2024 seperti yang tertera dalam Jadual 1. Program ini adalah setara dengan semua program kejuruteraan di peringkat SA dan DA.

Pada tahun 2024, ETAC telah mengadakan penilaian akreditasi di 55 buah institusi pengajian tinggi yang melibatkan 41 program ijazah teknologi kejuruteraan dan 126 program diploma kejuruteraan. Semua penilaian akreditasi telah berjalan secara fizikal dan secara desktop review.

The ETAC has a total of 95 active engineering technology degree programmes and 281 active engineering diploma programmes as of December 31, 2024 as shown in Table 1. These programmes have met the equivalent engineering standards at the SA and DA level.

In 2024, ETAC has conducted the accreditation assessment to 55 IHL involving 41 engineering technology degree programmes and 126 engineering diploma programmes. All accreditation assessment were conducted physically and in desktop modes.

Jadual 1: Program Ijazah Teknologi Kejuruteraan yang Aktif pada 31 Disember 2024
Table 1: Active Engineering Technology Degree Programmes as at 31 December 2024

Bil. No.	Institusi Pengajian Tinggi/ Institution of Higher Learning	Bil. Program No. of Programme
1.	Lincoln University College (LUC)	4
2.	Politeknik Sultan Salahuddin Abdul Aziz Shah (PSA)	1
3.	Politeknik Sultan Azlan Shah (PSAS)	1
4.	Politeknik Ungku Omar (PUO)	2
5.	Universiti Malaysia Perlis (UniMAP)	13
6.	Universiti Tun Hussein Onn Malaysia (UTHM)	12
7.	Universiti Teknikal Malaysia Melaka (UTeM)	15
8.	Universiti Kuala Lumpur Kampus Cawangan Malaysia France Institute (UniKL MFI)	7
9.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Spanish Institute (UniKL MSI)	5
10.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Marine Engineering Technology (UniKL MIMET)	4
11.	Universiti Kuala Lumpur Malaysian Institute of Information Technology (UniKL MIIT)	2
12.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Industrial Technology (UniKL MITEC)	4
13.	Universiti Kuala Lumpur Kampus Cawangan British Malaysian Institute (UniKL BMI)	4
14.	Universiti Kuala Lumpur Kampus Cawangan Malaysia Italy Design Institute (UniKL MIDI)	5
15.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Chemical and Bioengineering Technology (UniKL MICET)	5
16.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Aviation Technology (UniKL MIAT)	2
17.	Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)- Pekan Campus	2
18.	Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)- Gambang Campus	4
19.	Tunku Abdul Rahman University College (TAR UC) Penang	1
20.	University of Cyberjaya (UoC)	1
21.	Universiti Sains Malaysia (USM)	1
Jumlah Keseluruhan Grand Total		95

Jadual 1: Program Diploma Kejuruteraan yang Aktif pada 31 Disember 2024
Table 1: Active Engineering Diploma Programmes as at 31 December 2024

Bil. No.	Institusi Pengajian Tinggi/ <i>Institution of Higher Learning</i>	Bil. Program <i>No. of Programme</i>
1.	Institut Kemahiran Mara (IKM) Bintulu	3
2.	Institut Kemahiran Mara (IKM) Johor Bahru	3
3.	Institut Kemahiran Mara (IKM) Seberang Perai Utara	2
4.	Kolej Yayasan Pelajaran Johor (KYPJ)	1
5.	Kolej Kemahiran Tinggi Mara (KKTm) Petaling Jaya	1
6.	Kolej Kemahiran Tinggi Mara (KKTm) Sri Gading	7
7.	Kolej Kemahiran Tinggi Mara (KKTm) Kemaman	6
8.	Kolej Kemahiran Tinggi Mara (KKTm) Lenggong	2
9.	Kolej Kemahiran Tinggi Mara (KKTm) Balik Pulau	5
10.	Kolej Kemahiran Tinggi Mara (KKTm) Masjid Tanah	4
11.	Kolej Kemahiran Tinggi Mara (KKTm) Pasir Mas	5
12.	Kolej Kemahiran Tinggi Mara (KKTm) Kuantan	5
13.	Kolej Kemahiran Tinggi Mara (KKTm) Ledang	5
14.	Lincoln University College (LUC)	1
15.	MARA-Japan Industrial Institute (MJII)	5
16.	Politeknik Banting Selangor (PBS)	3
17.	Politeknik Kota Kinabalu (PKK)	7
18.	Politeknik Kuala Terengganu (PKT)	2
19.	Politeknik Muadzam Shah (PMS)	4
20.	Politeknik Port Dickson (PPD)	10
21.	Politeknik Sultan Salahuddin Abdul Aziz Shah (PSA)	7
22.	Politeknik Sultan Azlan Shah (PSAS)	9
23.	Politeknik Ungku Omar (PUO)	9
24.	Politeknik Melaka (PMK)	3
25.	Politeknik Tuanku Sultanah Bahiyah (PTSB)	8
26.	Politeknik Seberang Perai (PSP)	7
27.	Politeknik Sultan Abdul Halim Mu'adzam Shah (POLIMAS)	9
28.	Politeknik Sultan Idris Shah (PSIS)	4
29.	Politeknik Tuanku Syed Sirajuddin (PTSS)	4
30.	Politeknik Sultan Mizan Zainal Abidin (PSMZA)	8
31.	Politeknik Kota Bharu (PKB)	8
32.	Politeknik Merlimau (PMM)	7
33.	Politeknik Sultan Haji Ahmad Shah (POLISAS)	6
34.	Politeknik Mukah (PMU)	4
35.	Politeknik Kuching Sarawak (PKS)	9
36.	Politeknik Ibrahim Sultan (PIS)	7
37.	Politeknik Nilai (PNS)	2
38.	Politeknik Tun Syed Nasir Syed Ismail (PTSN)	4
39.	Politeknik Mersing (PMJ)	2
40.	Universiti Tun Hussein Onn Malaysia (UTHM)	4

Jadual 1: Program Diploma Kejuruteraan yang Aktif pada 31 Disember 2024
Table 1: Active Engineering Diploma Programmes as at 31 December 2024

Bil. No.	Institusi Pengajian Tinggi/ <i>Institution of Higher Learning</i>	Bil. Program <i>No. of Programme</i>
41.	Universiti Teknologi MARA (UiTM) Bukit Besi	2
42.	Universiti Teknologi MARA (UiTM) Dungun	2
43.	Universiti Teknologi MARA (UiTM) Pasir Gudang	5
44.	Universiti Teknologi MARA (UiTM) Permatang Pauh	4
45.	Universiti Teknologi MARA (UiTM) Jengka	1
46.	Universiti Teknologi MARA (UiTM) Samarahan 2	1
47.	Universiti Teknologi MARA (UiTM) Samarahan	2
48.	Universiti Malaysia Sabah (UMS)	1
49.	Universiti Teknikal Malaysia Melaka (UTeM)	4
50.	City University (City U)	1
51.	Disted College	0
52.	German-Malaysian Institute (GMI)	5
53.	INTI International College Penang (IIICP)	2
54.	INTI International College Subang (IICS)	1
55.	INTI International University (INTI IU)	2
56.	MAHSA University	3
57.	Manipal International University (MIU)	2
58.	Multimedia University (MMU) Malacca	2
59.	Quest International University (QIU)	1
60.	Southern University College (SUC)	1
61.	Universiti Kuala Lumpur Kampus Cawangan British Malaysian Institute (UniKL BMI)	2
62.	Universiti Kuala Lumpur Kampus Cawangan Malaysia France Institute (UniKL MFI)	3
63.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Chemical and Bioengineering Technology (UniKL MICET)	2
64.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Marine Engineering Technology (UniKL MIMET)	4
65.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Industrial Technology (UniKL MITEC)	1
66.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Spanish Institute (UniKL MSI)	4

Jadual 1: Program Diploma Kejuruteraan yang Aktif pada 31 Disember 2024
Table 1: Active Engineering Diploma Programmes as at 31 December 2024

Bil. No.	Institusi Pengajian Tinggi/ <i>Institution of Higher Learning</i>	Bil. Program <i>No. of Programme</i>
67.	Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Aviation Technology (UniKL MIAT)	3
68.	Universiti Tenaga Nasional	2
69.	UOW Malaysia KDU University College (UOWKDU)	1
70.	Global Institute of Studies (GIS)	1
71.	Tunku Abdul Rahman University College (TAR UC) Kuala Lumpur	3
72.	Tunku Abdul Rahman University College (TAR UC) Penang	1
73.	Universiti Malaysia Pahang Al-Sultan Abdullah (UMPASA)- Pekan Campus	2
74.	Universiti Malaysia Pahang Al-Sultan Abdullah (UMPASA)- Gambang Campus	2
75.	Nilai University	1
76.	Universiti Teknologi Malaysia (UTM)	5
Jumlah Besar <i>Grand Total</i>		281



PENCAPAIAN KELULUSAN PEPERIKSAAN KECEKAPAN PROFESSIONAL (PCE) *PROFESSIONAL COMPETENCY EXAMINATION (PCE) PASSED ACHIEVEMENT*

Bilangan Calon Lulus PCE dari Tahun 2016 hingga 2023
Number of Candidates who Passed PCE from 2016 to 2023

Tahun / Bidang	Bilangan Calon <i>Number of candidates</i>			Bilangan Calon Lulus PCE <i>No. of Candidates Passed PCE</i>					
Year / Branch	Baru <i>New</i>	Ulangan <i>Re-sit</i>	Jumlah <i>Total</i>	Baru <i>New</i>	%	Ulangan <i>Re-sit</i>	%	Jumlah <i>Total</i>	%
AWAM (CIVIL)									
2023	63	106	169	10	16%	26	25%	36	21%
2023	63	106	169	10	16%	26	25%	36	21%
2022	77	90	167	8	10%	26	29%	34	20%
2021	86	80	166	8	9%	10	13%	18	11%
2019	67	65	132	8	12%	4	6%	12	9%
2018	61	41	102	5	8%	3	7%	8	8%
2017	52	27	79	10	19%	9	33%	19	24%
2016	47	0	47	3	6%			3	6%
ELEKTRIK (ELECTRICAL)									
2023	45	54	99	4	9%	10	19%	14	14%
2022	35	49	84	0	0%	12	24%	12	14%
2021	61	45	106	3	5%	8	18%	11	10%
2019	43	40	83	2	5%	4	10%	6	7%
2018	36	41	77	0	0%	7	17%	7	9%
2017	46	23	69	3	7%	4	17%	7	10%
2016	41	0	41	2	5%			2	5%
MEKANIKA (MECHANICAL)									
2023	36	40	76	3	8%	11	28%	14	18%
2022	37	34	71	8	22%	12	35%	20	28%
2021	31	30	61	0	0%	1	3%	1	2%
2019	42	23	65	4	10%	3	13%	7	11%
2018	22	14	36	4	18%	3	21%	7	19%
2017	21	6	27	6	29%	1	17%	7	26%
2016	16	0	16	1	6%			1	6%
KIMIA (CHEMICAL)									
2023	2	0	3	0	0%	0	0%	0	0%
2022	1	1	2	0	0%	1	100%	1	50%
2021	4	1	5	0	0%	0	0%	0	0%
2019	1	2	3	0	0%	2	100%	2	67%
2018	3	0	3	0	0%			0	0%
2017	1	0	1	1	100%			1	100%

Tahun / Bidang	Bilangan Calon Number of candidates			Bilangan Calon Lulus PCE No. of Candidates Passed PCE					
Year / Branch	Baru New	Ulangan Re-sit	Jumlah Total	Baru New	%	Ulangan Re-sit	%	Jumlah Total	%
ALAM SEKITAR (ENVIRONMENTAL)									
2023	3	0	4	0	0%	0	0%	0	0%
2022	1	0	1	0	0%	0	0%	0	0%
2021	1	1	2	0	0%	1	100%	1	50%
2019	0	1	1	0	0%	0	0%	0	0%
2017	1	0	1	0	0%			0	0%
GEOTEKNIK (GEOTECHNICAL)									
2023	2	1	3	1	50%	0	0%	1	33%
2021	1	1	2	0	0%	0	0%	0	0%
2019	0	1	1	0	0%	0	0%	0	0%
2018	1	0	1	0	0%			0	0%
PELOMBONGAN (MINING)									
2023	0	5	5	0	0%	1	20%	1	20%
2022	2	4	6	0	0%	0	0%	0	0%
2021	2	2	4	0	0%	0	0%	0	0%
2019	1	2	3	0	0%	0	0%	0	0%
2018	4	0	4	0	0%			0	0%
PENGANGKUTAN (TRANSPORTATION)									
2023	4	0	4	0	0%	0	0%	0	0%

Nota: PCE tidak dapat diadakan pada tahun 2020 disebabkan Perintah Kawalan Pergerakan Covid-19.

Note: PCE was not held in year 2020 due to Covid-19 Movement Control.

Bilangan Calon Lulus PCE Mengikut Bidang (2023)
Number of Candidates Pass Professional Competency Examination by Branch (2023)

Bidang Branch	Jumlah calon Total Candidates	Kertas Am Common Paper						
		Bil. Calon No. of candidates	Kertas 1 Paper 1	%	Kertas 2 Paper 2	%	Semua All	%
Civil	254	211	104	49%	91	43%	70	33%
Electrical	128	102	39	38%	25	25%	21	21%
Mechanical	95	75	35	47%	28	37%	23	31%
Geotechnical	7	6	5	83%	5	83%	4	67%
Chemical	5	5	0	0%	3	60%	0	0%
Environmental	4	4	1	25%	2	50%	1	25%
Mining	5	5	4	80%	3	60%	3	60%
Transportation	6	6	2	33%	4	67%	1	17%
Structural	2	2	1	50%	1	50%	1	50%
TOTAL	506	416	191	46%	162	39%	124	30%

Bidang Branch	Kertas Teknikal Technical Paper							Keseluruhan Overall	
	Bil. Calon No. of candidates	Kertas 1 Paper 1	%	Kertas 2 Paper 2	%	Semua All	%	Bil. Lulus No. of pass	%
Civil	232	122	53%	56	24%	47	20%	44	17%
Electrical	113	78	69%	29	26%	29	26%	22	17%
Mechanical	89	40	45%	41	46%	35	39%	28	29%
Geotechnical	7	6	86%	4	57%	4	57%	3	43%
Chemical	5	3	60%	3	60%	3	60%	0	0%
Environmental	2	2	100%	2	100%	2	100%	1	25%
Mining	1	1	100%	1	100%	1	100%	3	60%
Transportation	2	0	0%	1	50%	0	0%	1	17%
Structural	2	1	50%	1	50%	1	50%	1	50%
TOTAL	451					121	27%	103	20%

Nota: Pemohon menduduki peperiksaan pada tahun 2023. Keputusan peperiksaan akan dikeluarkan pada bulan Februari 2024.
 Note: The candidates sat for examination in 2023. The result was released in February 2024.

LAPORAN TAHUNAN 2024

ANNUAL REPORT



PERISTIWA PENTING 2024

HIGHLIGHTS OF 2024

PERISTIWA PENTING 2024

HIGHLIGHTS OF 2024

KUNJUNGAN HORMAT SEPANJANG TAHUN 2024

Selaras dengan Pelan Strategik LJM 2021–2025, khususnya di bawah teras strategik untuk mempertingkatkan imej dan penjenamaan LJM, LJM melalui Jawatankuasa Komunikasi Korporat telah melaksanakan beberapa siri kunjungan hormat sepanjang tahun 2024 yang bertujuan untuk:

- Meningkatkan martabat profesion kejuruteraan melalui pengukuhan kehadiran dan keterlihatan LJM dalam kalangan pihak berkepentingan utama dalam ekosistem kejuruteraan.
- Menjalin hubungan dengan syarikat kejuruteraan utama, badan profesional serta institusi pendidikan bagi mempromosikan pendaftaran profesional dan pematuhan terhadap REA 1967
- Mewujudkan kerjasama dan peluang perkongsian strategik dengan rakan industri bagi melaksanakan inisiatif bersama, program pembangunan profesional, serta aktiviti libat urus yang menyokong pertumbuhan profesion kejuruteraan di Malaysia.
- Menjalin hubungan dengan organisasi dan agensi media bagi meningkatkan keterlihatan dan profil awam LJM.
- Memperoleh maklumat dan pandangan industri berhubung cabaran semasa, trend sektor, serta keperluan tenaga kerja bagi memastikan dasar, garis panduan, dan usaha promosi LJM kekal relevan serta responsif terhadap perkembangan sektor kejuruteraan.
- Mengukuhkan jaringan hubungan dan kerjasama strategik dengan memupuk komunikasi dua hala yang terbuka antara LJM dan komuniti kejuruteraan.

Sepanjang tahun 2024, sebanyak 19 lawatan kunjungan hormat telah diadakan melibatkan agensi kerajaan, badan profesional, syarikat swasta serta organisasi media.

Lawatan tersebut telah menjadi platform penting untuk memperkukuh kerjasama, meneroka peluang sinergi serta mempromosikan peranan dan inisiatif LJM dalam memperkasakan profesion kejuruteraan di negara ini.

COURTESY VISITS THROUGHOUT 2024

In line with the BEM Strategic Plan 2021–2025, particularly under the strategic pillar to enhance BEM's image and branding, BEM, through its Corporate Communication Committee, has carried out a series of courtesy visits throughout 2024 aimed at:

- Elevate the stature of the engineering profession by strengthening BEM's presence and visibility among key stakeholders in the engineering ecosystem.
- Engage with major engineering companies, professional bodies, and educational institutions to promote professional registration and compliance with the REA 1967.
- Foster closer collaboration and partnership opportunities with strategic industry players for joint initiatives, programmes, and outreach activities that support the professional development of engineers in Malaysia.
- Foster relationships with media organisations and agencies to enhance BEM's visibility and public profile.
- Gain insights into current challenges, industry trends, and workforce needs to ensure BEM's policies, guidelines, and promotional efforts remain relevant and responsive to the engineering sector's growth.
- Strengthen networking and stakeholder relations by promoting open dialogue and mutual understanding between BEM and the engineering community.

In 2024, a total of 19 courtesy visits were conducted, encompassing engagements with key government agencies, professional bodies, private corporations, and media organisations.

These visits provided valuable platforms to enhance cooperation, explore potential collaborations, and further promote BEM's roles and initiatives within the engineering profession.

Senarai Kunjungan Hormat Tahun 2024*List of Courtesy Visits 2024*

No	Organisasi / Organisation	Tarikh / Date
1.	Sin Chew Media Corporation Berhad	12 Januari 2024 (12 January 2024)
2.	Petronas Research Sdn Bhd	14 Februari 2024 (14 February 2024)
3.	BERNAMA	15 Februari 2024 (15 February 2024)
4.	The New Straits Times Press (Malaysia) Bhd	11 Mac 2024 (11 March 2024)
5.	Radio Television Malaysia (RTM)	8 Mei 2024 (8 May 2024)
6.	Tenaga Nasional Berhad (TNB)	8 Mei 2024 (8 May 2024)
7.	Jabatan Bomba Dan Penyelamat Malaysia (JBPM)	13 Mei 2024 (13 May 2024)
8.	PHN Industry Sdn Bhd (HICOM)	21 Mei 2024 (21 May 2024)
9.	Construction Industry Development Board (CIDB)	31 Mei 2024 (31 May 2024)
10.	Media Mulia	12 Jun 2024 (12 June 2024)
11.	Institusi Jurutera Malaysia (IEM)	27 Jun 2024 (27 June 2024)
12.	Master Builders Association Malaysia (MBAM)	11 Julai 2024 (11 July 2024)
13.	Putrajaya Holdings	15 Julai 2024 (15 July 2024)
14.	Gabungan Jurutera Perunding Bumiputera Sarawak (GJPBS)	23 Julai 2024 (23 July 2024)
15.	Kementerian Peralihan Tenaga dan Transformasi Air (PETRA)	26 Julai 2024 (26 July 2024)
16.	Honda Malaysia Sdn Bhd	31 Julai 2024 (31 July 2024)
17.	Airod Sdn Bhd	19 September 2024
18.	Civil Aviation Authority of Malaysia (CAAM)	26 September 2024
19.	Malaysia International Shipping Corporation Berhad	17 Disember 2024 (17 December 2024)



PROGRAM JANGKAUAN DAN PENDAFTARAN BERPANDU

Pada tahun 2024, LJM telah melaksanakan sebanyak 11 Program Jangkauan dan Pendaftaran Berpandu bersama pelbagai organisasi. Inisiatif ini adalah selaras dengan Pelan Strategik LJM 2021–2025, Tema 1, Inisiatif M1.4.2, yang bertujuan untuk:

- Menguatkuasakan pendaftaran jurutera, ahli teknologi kejuruteraan dan juruteknik kejuruteraan dengan LJM bagi memastikan keselamatan awam terpelihara; dan
- Meningkatkan bilangan profesional berdaftar di bawah LJM dengan ketara.

OUTREACH AND REGISTRATION DRIVE PROGRAMME

In 2024, BEM conducted a total of 11 Outreach and Registration Drive programmes with various organisations. These initiatives are aligned with BEM's Strategic Plan 2021–2025, Theme 1, Initiative M1.4.2, which seeks to:

- Enforce the registration of engineers, engineering technologists, and engineering technicians with BEM in order to safeguard public safety; and
- Significantly increase the number of registered professionals with BEM.

Senarai Program Jangkauan dan Pendaftaran Berpandu Tahun 2024

List of Outreach and Registration Drive Programme 2024

No	Organisasi / Organisation	Tarikh / Date
1	Radio Television Malaysia (RTM)	14 Mei 2024
2	PHN Industry Sdn Bhd (DRB-Hicom)	21 Mei 2024
3	Petronas Research Sdn Bhd (PRSB)	27 Mei 2024
4	The National Cyber Security Agency (Nacsa Cyber Security Summit 2024)	30 Jul – 2 Ogos 2024
5	Master Builders Association Malaysia (MBAM Onebuild 2024 Exhibition)	28-30 Ogos 2024
6	Jabatan Bomba dan Penyelamat Malaysia (JBPM)(Bomba)	4 September 2024
7	The Institution of Engineers Malaysia (IEM Engineer Convention 2024)	18-21 Sept. 2024
8	Telekom Malaysia	23 Oktober 2024
9	Isuzu Hicom Malaysia Sdn Bhd	29 Oktober 2024
10	Hari Profesion Teknikal Negara (HPTN) 2024	11 – 12 Disember 2024
11	Perodua Manufacturing Sdn Bhd	24 Disember 2024



Ir. Dr. Megat Zuhairy bin Megat Tajuddin, Pendaftar LJM menyampaikan ucapan.
Ir. Dr. Megat Zuhairy bin Megat Tajuddin, BEM Registrar delivering his speech.



The National Cyber Security Agency (NACSA Cyber Security Summit 2024)



Hari Profesion Teknikal Negara (HPTN) 2024



Sebahagian Peserta Telekom Malaysia yang mengikuti Program Jangkauan dan Pendaftaran LJM
Some Telekom Malaysia participants taking part in the BEM Outreach and Registration Program.



Program di Isuzu Hicom Malaysia Sdn Bhd
At Isuzu Hicom Malaysia Sdn Bhd



Kunjungan Hormat ke PHN Industry pada 21.5.2024.
Courtesy visit fto PHN Industry on 21.5.2024.

MESYUARAT JAWATANKUASA PENYELARAS PERKHIDMATAN ASEAN

1. Mesyuarat ke-106, Bandung Indonesia, 26 Februari – 1 Mac 2024
2. Mesyuarat ke-107, Siem Reap, Kemboja 4 – 7 Jun 2024
3. Mesyuarat ke-108, Jakarta, Indonesia 21 – 25 Oktober 2024

LJM selaku badan yang mengawal selia profesion kejuruteraan di Malaysia telah menghantar wakil menghadiri mesyuarat di atas dan mesyuarat-mesyuarat lain yang diadakan sempena Mesyuarat Jawatankuasa Penyelaras Perkhidmatan. Di bawah naungan Jawatankuasa Penyelaras Perkhidmatan, terdapat beberapa mesyuarat berdasarkan Perkhidmatan contohnya Perkhidmatan Kejuruteraan, Arkitek, Juruukur dan lain-lain.

Untuk bidang perkhidmatan kejuruteraan, Malaysia (melalui LJM) menghadiri Mesyuarat Jawatankuasa Penyelaras Jurutera Profesional ASEAN (ACPECC) yang dianggotai oleh kesemua 10 Negara ASEAN. Mesyuarat ini telah dipengerusikan oleh Malaysia. Pengerusi dilantik secara giliran setiap 2 tahun dan tempoh pelantikan Malaysia sebagai Pengerusi ACPECC bermula 1 Januari 2023 sehingga 31 Disember 2024.

Sepanjang tahun 2024, ACPECC dalam mesyuaratnya telah meluluskan Jurutera Profesional Bertauliah ASEAN seperti di Jadual 1 dan telah mendaftarkan Jurutera Profesional Asing Berdaftar sebagaimana Jadual 2:

ASEAN COORDINATING COMMITTEE MEETING ON SERVICES:

1. 106th Meeting, Bandung Indonesia, 26th February – 1st March 2024
2. 107th Meeting, Siem Reap, Cambodia 4th – 7th June 2024
3. 108th Meeting, Jakarta, Indonesia 21st – 25th October 2024

BEM as the body regulating engineering profession in Malaysia had sent representatives to attend all meetings of the above. Under the auspices of the CCS Meeting, there are a number of meeting-based services such as Engineering services, Architectural, Surveying and others.

For engineering services, Malaysia (through BEM) attended the ASEAN Chartered Professional Engineer Coordinating Committee Meeting (ACPECC) which comprises of all 10 ASEAN Member States. The meeting was chaired by Malaysia. The Chairman is appointed on a rotating basis every 2 years and the appointment period of Malaysia as Chairman of ACPECC starts from 1 January 2023 until 31 December 2024.

Throughout 2024, ACPECC at its meeting had approved ASEAN Chartered Professional Engineer as in Table 1 and has registered Registered Foreign Professional Engineer as in Table 2:

AMS	Cumulative		53rd ACPECC			Cumulative		ACPEs Balance
	(52 nd ACPECC)					(53 rd ACPECC)		
	Approved Application	Deregistered & Deceased	Applications Received	Approved Application	Deregistered & Deceased	Approved Application	Deregistered & Deceased	
Brunei Darussalam	36	0	0	0	0	36	0	36
Cambodia	124	4	14	14	0	138	4	134
Indonesia	1,568	20	60	60	0	1,628	20	1,608
Lao PDR	18	0	0	0	0	18	0	18
Malaysia	3,344	10	284	284	0	3,628	10	3,618
Myanmar	634	12	8	8	0	642	12	630
Philippines	1,012	0	85	85	0	1,097	0	1,097
Singapore	352	4	4	4	0	356	4	352
Thailand	245	0	5	5	0	250	0	250
Viet Nam	362	0	0	0	0	362	0	362
Total	7,695	50	460	460	0	8,155	50	8,105

Jadual 1: Statistik ASEAN Chartered Professional Engineer (ACPE) sehingga 31.12.2024

RFPE	Professional Regulatory Authority (PRA)											
		BN	CA	ID	LA	MY	MM	PH	SG	TH	VN	Total
	BN	-				1						1
	CA		-									0
	ID			-		1						1
	LA				-							0
	MY		6			-	2	0	1			9
	MM					0	-		0	0		0
	PH			1		3		-				4
	SG		1			5	1		-			7
	TH		6			1	2			-		9
	VN										-	0
	Total	0	13	1	0	11	5	0	1	0	0	31

Jadual 2: Statistik Registered Foreign Professional Engineer (RFPE) sehingga 31.12.2024

YBhg. Datuk Ir. Mohd Adnan bin Mohd Nor mewakili Malaysia mempengerusikan Mesyuarat ACPECC ke-107 di Siem Reap, Kemboja pada 4 Jun 2024

YBhg. Datuk Ir. Mohd Adnan bin Mohd Nor represented Malaysia in chairing the 107th ACPECC Meeting held in Siem Reap, Cambodia on 4 June 2024.



MESYUARAT JAWATANKUASA KERJA BUSINESS SERVICES SECTORAL (BSSWG) PADA 27 FEBRUARI 2024, 5 JUN 2024 DAN 22 OKTOBER 2024

Malaysia juga turut menghadiri Mesyuarat Jawatankuasa Kerja Business Services Sectoral (BSSWG) pada 27 Februari 2024, 5 Jun 2024 dan 22 Oktober 2024.

Mesyuarat ini telah dipengerusikan oleh Malaysia. Pengerusi dilantik secara giliran setiap 2 tahun dan tempoh pelantikan Malaysia sebagai Pengerusi BSSWG bermula 1 Januari 2023 sehingga 31 Disember 2024.

Mesyuarat BSSWG membincangkan Laporan Mesyuarat APCECC, Mesyuarat ASEAN Architect Council (AAC), Mesyuarat ASEAN Chartered Professional Accountant Coordinating Committee (ACPACC) dan Mesyuarat ASEAN Competent Authority Committee on Surveying (ACACS)

Laporan Mesyuarat BSSWG akan dibentangkan ke peringkat Mesyuarat Jawatankuasa Penyelaras Perkhidmatan (CCS) ASEAN untuk makluman, tindakan dan kelulusan.

YBhg. Datuk Wira Ir. Md Sidek bin Ahmad mewakili Malaysia mempengerusikan Mesyuarat BSSWG di Siem Reap, Kemboja pada 5 Jun 2024

YBhg. Datuk Wira Ir. Md Sidek bin Ahmad represented Malaysia in chairing the BSSWG Meeting held in Siem Reap, Cambodia on 5 June 2024.

BUSINESS SERVICES SECTORAL WORKING GROUP MEETING (BSSWG) ON 27TH FEBRUARY 2024, 5TH JUNE 2024 AND 22ND OCTOBER 2024

Malaysia had also attended the Business Services Sectoral Working Group Meeting (BSSWG) on 27th February 2024, 5th June 2024 and 22nd October 2024.

The meeting was chaired by Malaysia. The Chairman is appointed on a rotating basis every 2 years and the appointment period of Malaysia as Chairman of BSSWG starts from 1 January 2023 until 31 December 2024.

The BSSWG meeting discussed the APCECC Meeting, the ASEAN Architect Council (AAC) Meeting, the ASEAN Chartered Professional Accountant Coordinating Committee (ACPACC) Meeting and the ASEAN Competent Authority Committee on Surveying (ACACS) Meeting Reports.

The BSSWG Meeting Report will be presented to the ASEAN Coordinating Committee on Services (CCS) Meeting for information, action and approval.



Sebahagian wakil daripada Malaysia
Some of the representatives from Malaysia

MESYUARAT PERIKATAN KEJURUTERAAN ANTARABANGSA

7 - 14 JUN 2024

HARYANA, INDIA

Mesyuarat Perikatan Kejuruteraan Antarabangsa (IEA) menjadi penampung kepada 4 Perjanjian dan 3 Persefahaman sebagaimana berikut:

1. Perjanjian Jurutera APEC
2. Perjanjian Jurutera Professional Antarabangsa
3. Perjanjian Teknologis Kejuruteraan Antarabangsa
4. Perjanjian Juruteknik Kejuruteraan Antarabangsa
5. Permuafakatan Washington (WA)
6. Permuafakatan Sydney (SA)
7. Permuafakatan Dublin (DA)

Malaysia telah melibatkan diri dalam Mesyuarat Perikatan Kejuruteraan Antarabangsa sejak tahun 1999 dengan menandatangani Perjanjian Jurutera Professional Antarabangsa pada tahun tersebut, Jurutera APEC pada tahun 2000, Permuafakatan Washington pada tahun 2009 dan Permuafakatan Sydney serta Permuafakatan Dublin pada tahun 2018.

Sebagai anggota penuh penandatanganan, Malaysia telah menyertai semua mesyuarat-mesyuarat berkaitan iaitu Mesyuarat Permuafakatan Washington, Permuafakatan Sydney dan Permuafakatan Dublin.

Mesyuarat Perikatan Kejuruteraan Antarabangsa 2024 telah diadakan di The Leela Ambience Gurugram Hotels and Residences, Haryana, India dari 7 hingga 14 Jun 2024. Dalam mesyuarat kali ini Malaysia telah menghantar lima (5) orang wakil.

Malaysia melalui Ir. Megat Johari bin Megat Mohd Noor, Ahli Lembaga LJM telah dilantik sebagai Timbalan Pengerusi Permuafakatan Dublin bermula Jun 2023 sehingga Jun 2025.

Untuk rekod, Permuafakatan Washington adalah perjanjian antarabangsa antara badan-badan yang bertanggungjawab untuk menilai program akademik Kejuruteraan, Permuafakatan Sydney adalah perjanjian antarabangsa antara badan-badan yang bertanggungjawab untuk menilai program akademik kejuruteraan teknologi dan Permuafakatan Dublin pula adalah Perjanjian Antarabangsa yang mewujudkan dasar pendidikan yang dikehendaki untuk Juruteknik Kejuruteraan.

Mesyuarat IEA tahun hadapan (2025) dijadualkan berlangsung di Merida, Mexico pada 8 – 15 Jun 2025.

INTERNATIONAL ENGINEERING ALLIANCE MEETING

7 – 14 JUNE 2024

HARYANA, INDIA

Under the auspices of International Engineering Alliance (IEA) Meeting there are 4 Agreements and 3 Accords as follows:

1. APEC Engineer Agreement
2. International Professional Engineer Agreement
3. International Engineering Technologist Agreement (IETA)
4. Agreement for International Engineering Technicians (AIET)
5. Washington Accord (WA)
6. Sydney Accord (SA)
7. Dublin Accord (DA)

Malaysia has been involved in the International Engineering Alliance Meeting since 1999 by signing the International Professional Engineer Agreement, APEC Engineer Agreement in year 2000, a signatory of Washington Accords in the year 2009 and Sydney and Dublin Accords in year 2018.

As full signatory, Malaysia has participated in Washington Accord, Sydney Accord and Dublin Accord Meetings.

IEA Meeting 2024 was held at The Leela Ambience Gurugram Hotels and Residences in Haryana, India from 7 until 14 June 2024. In this meeting, Malaysia sent five (5) representatives.

Malaysia through Ir. Megat Johari bin Megat Mohd Noor, BEM Board Member has been appointed as Deputy Chair of the Dublin Accord from June 2023 until June 2025.

For the record, Washington Accord is an international agreement between bodies responsible for accrediting engineering academic programmes, Sydney Accord is an international agreement between bodies responsible for accrediting engineering technology academic programmes and Dublin Accord is an international agreement establishing the required educational base for engineering technicians.

The next IEAM 2025 will be held at Merida, Mexico, on 8 – 15 June 2025.



Wakil Malaysia ke Mesyuarat IEA di Haryana, India
Malaysia's representatives to IEA Meeting in Haryana, India



RANGKAIAN BADAN-BADAN AKREDITASI UNTUK PENDIDIKAN KEJURUTERAAN DI ASIA (NABEEA)

13 Jun 2024

LJM mewakili Malaysia sebagai Anggota Majlis Rangkaian Badan-Badan Akreditasi untuk Pendidikan Kejuruteraan di Asia (NABEEA). NABEEA ditubuhkan pada 2006 di Tokyo sempena symposium JABEE (Lembaga Pentauliahan Pendidikan Kejuruteraan Jepun). NABEEA adalah satu rangkaian badan akreditasi untuk pendidikan kejuruteraan antara negara-negara Asian.

Tahun ini Perhimpunan Agung NABEEA telah diadakan pada 13.6.2024 semasa Mesyuarat Perikatan Kejuruteraan Antarabangsa di Pearl Ballroom, The Leela Ambience Gurugram Hotels and Residences, Haryana, India.

MESYUARAT PERMUAFAKATAN SEOUL 15 – 17 JUN 2024 HARYANA, INDIA.

Permuafakatan Seoul adalah perjanjian pelbagai sisi antara agensi-agensi yang bertanggungjawab untuk akreditasi atau pengiktirafan pengkomputeran peringkat tinggi dan kelayakan berkaitan IT.

LJM telah menyertai mesyuarat permuafakatan Seoul atas kapasiti pemerhati yang diadakan pada 15 – 17 Jun 2024 semasa Mesyuarat Perikatan Kejuruteraan Antarabangsa di The Leela Ambience Gurugram Hotels and Residences, Haryana, India..

NETWORK OF ACCREDITATION BODIES FOR ENGINEERING EDUCATION IN ASIA (NABEEA)

13 June 2024

BEM representing Malaysia as Council Member of the Network of Accreditation Bodies for Engineering Education in Asia (NABEEA). NABEEA was formed in 2006 during Japan Accreditation Board for Engineering Education (JABEE) Symposium. NABEEA should be a loose network of accreditation bodies for engineering education among the ASIAN Countries.

This year NABEEA General Assembly was conducted on 13.6.2024 back to back with the International Engineering Alliance Meeting at the Pearl Ballroom, The Leela Ambience Gurugram Hotels and Residences, Haryana, India.

SEOUL ACCORD MEETING 15 – 17 JUNE 2024 HARYANA, INDIA.

Seoul Accord is a multilateral agreement between the agencies responsible for the accreditation or recognition of high-level computing and IT-related qualifications.

BEM participated in the Seoul Accord meeting in the capacity as an observer which was held on 15 – 17th June 2024 during the International Engineering Alliance Meeting at The Leela Ambience Gurugram Hotels and Residences, Haryana, India..

BENGKEL PENYEDIAAN KERTAS SIASATAN

28 – 29 OGOS 2024

Lembaga Jurutera telah menganjurkan Bengkel Penyediaan Kertas Siasatan selama 2 hari khusus untuk ahli Jawatankuasa Penyiasatan LJM dan Ahli Lembaga pada 28-29 Ogos 2024.

Dua (2) penceramah dari Institut Latihan Kehakiman dan Perundangan (ILKAP) telah diundang untuk:

- memberi taklimat dan menjelaskan kepada peserta tentang teknik menjalankan penyiasatan;
- mendedahkan peserta kepada teknik menulis laporan dan menyediakan kertas siasatan; dan
- memastikan peserta dapat menjalankan siasatan dengan cekap dan mempunyai keupayaan untuk menentukan penguatkuasaan selaras dengan kesalahan yang diperuntukkan di bawah Akta dan Peraturan berkaitan.

WORKSHOP ON PREPARING INVESTIGATION PAPER

28 - 29 AUGUST 2024

The Board organised a 2 days Workshop on Preparing Investigation Paper for BEM Investigation Committee members and board members from 28 -29 August 2024.

Two (2) speakers from Institut Latihan Kehakiman dan Perundangan (ILKAP) were invited to:

- brief and clarify the participants on technique of conducting an investigation;
- expose the participants to report writing technique and preparing the investigation paper; and
- ensure the participants are able to conduct the investigation efficiently and have the ability to determine the enforcement in line with the offences provided under relevant Act and Regulation.



Bengkel Penyediaan Kertas Siasatan selama dua hari ini sangat interaktif dan memberikan manfaat yang besar kepada para peserta.

The two-day Investigation Paper Preparation Workshop was very interactive and provided significant benefits to the participants.

KERJASAMA DENGAN PETRONAS 2024

LJM telah bekerjasama dengan Petronas bagi berkongsi pengalaman kerja mereka dengan LJM dan begitu juga, mereka ingin mendapatkan maklumat terkini daripada LJM mengenai dasar-dasar seperti penyerahan CCC.

Beberapa mesyuarat telah diadakan oleh LJM dan Petronas untuk membincangkan beberapa isu seperti:

- Pengemukaan CCC secara dalam talian untuk projek PETRONAS.
- Memahami skop kerja/penyerahan PE/PEPC dalam projek PETRONAS.
- PETRONAS melatih graduan TVET dalam industri O&G
- Laluan ke PE dengan LJM untuk jurutera PETRONAS
(Beberapa PAE- Laluan B telah dijalankan di Petronas untuk Jurutera Petronas)
- Promosi Pembangunan Teknologi PETRONAS yang dibentangkan pada konvensyen LJM 2024 kepada orang berdaftar LJM.

Lebih banyak penglibatan akan diadakan untuk membincangkan bidang kepentingan bersama

COLLABORATION WITH PETRONAS 2024

BEM has been in collaboration with Petronas to share their work experience with BEM and likewise, they wish to get updated by BEM on practising policies such as CCC submission.

Few meetings had been held hosted by BEM and Petronas to discuss on several issues such as:

- CCC online submission for PETRONAS projects.
- Understanding scope of works/submission of PE/PEPC in PETRONAS project.
- PETRONAS training TVET graduates in O&G industry
- Route to PE with BEM for PETRONAS engineers
(Few PAE- Route B has been conducted at Petronas for Petronas Engineers)
- Promotion of PETRONAS Technology Development presented at BEM convention 2024 to BEM registered person.

More engagements will be held to discuss common area of interest.



Salah satu daripada libat urus dengan PETRONAS
One of the engagements with PETRONAS

**KONVENSYEN LEMBAGA JURUTERA
MALAYSIA 2024****1 – 2 OKTOBER 2024****MENARA FELDA, PLATINUM PARK,
KUALA LUMPUR**

Konvensyen LJM 2024 telah berjaya dianjurkan dari 1 hingga 4 Oktober 2024 di Menara FELDA, Kuala Lumpur, dan telah disempurnakan oleh YAB Dato' Sri Haji Fadillah bin Haji Yusof, Timbalan Perdana Menteri Malaysia. Program ini menghimpunkan para profesional, pengawal selia serta pemimpin industri bagi membincangkan masa depan kejuruteraan, penglibatan global dan kecemerlangan profesional.

Hari Pertama memberi tumpuan kepada pencapaian BEM, inovasi serta kerjasama antarabangsa.

Sorotan Utama:

- Majlis Pelancaran Konvensyen LJM 2024 dan Majlis Menandatangani MoU Pendaftaran Graduan Kejuruteraan Secara Pukul bersama Institusi Pengajian Tinggi yang disaksikan oleh Timbalan Perdana Menteri.
- Pembentangan mengenai Kemajuan dan Pencapaian LJM oleh Ir. Hamzah bin Hashim, Setiausaha BEM.
- Ucaptama daripada SIRIM dan Perkongsian Global dan International Engineering Alliance (IEA).
- Sesi mengenai Mobiliti Serantau dan Pendaftaran Jurutera Profesional ASEAN.
- Anugerah Kecemerlangan Inovasi Kejuruteraan (EIEA) 2023 dan Pameran Projek Inovatif oleh PETRONAS Research.

Hari Kedua menumpukan kepada pembangunan profesional, pematuhan peraturan dan kelestarian industri.

Sorotan Utama:

- Forum Perkhidmatan Profesional ke Peringkat Global yang menampilkan kejayaan firma kejuruteraan tempatan di arena antarabangsa.
- Kemas Kini Keselamatan dan Pematuhan mengenai DOSH Construction Work Design and Management Regulation.
- Perbincangan tentang Etika dalam Kejuruteraan, Pindaan Perundangan (REA 1967) dan Skala Yuran LJM.
- Dialog mengenai Gaji Permulaan Jurutera dan Amalan Pampasan yang Adil.

**BOARD OF ENGINEERS MALAYSIA
CONVENTION 2024****1-2 OCTOBER 2024****MENARA FELDA, PLATINUM PARK,
KUALA LUMPUR**

The BEM Convention 2024 was successfully held from 1 - 4 October 2024 at Menara FELDA, Kuala Lumpur, officiated by YAB Dato' Sri Haji Fadillah bin Haji Yusof, Deputy Prime Minister of Malaysia. The event gathered professionals, regulators, and industry leaders to discuss the future of engineering, global engagement, and professional excellence.

Day 1 focused on BEM's milestones, innovation, and international collaboration.

Highlights:

- Official Launch of BEM Convention 2024 & MoU Signing Ceremony on Engineering Graduate Bulk Registration with Institutions of Higher Learning witnessed by the Deputy Prime Minister.
- Presentation on BEM's Progress and Achievements by Ir. Hamzah bin Hashim, Secretary of BEM.
- Keynote Address from SIRIM & Global Insights from and the International Engineering Alliance (IEA).
- Sessions on Regional Mobility and ASEAN Professional Engineer Registration.
- Engineering Innovation Excellence Award (EIEA) 2023 and Innovative Project Showcase by PETRONAS Research.

Day 2 emphasized professional development, regulatory compliance, and industry sustainability.

Highlights:

- Forum on Exporting Professional Services featuring success stories from global engineering firms.
- Safety & Compliance Updates on DOSH Construction Work Design and Management Regulation.
- Discussions on Ethics in Engineering, Legislative Updates (REA 1967), and BEM Scale of Fees.
- Dialogue on Improving Engineers' Starting Salary and Fair Compensation Practices.

Hari Ketiga – Keempat: Pengiktirafan Profesional & Pembangunan Keupayaan

Sesi selari dan bengkel khas memperkukuh usaha pendidikan, capaian masyarakat serta tadbir urus profesional.

Sorotan Utama:

- Majlis Pentauliahkan Jurutera Profesional Baharu dan Majlis Graduasi Program Kepimpinan & Pengurusan LJM.
- Pertandingan STEM yang disertai oleh beberapa sekolah di Wilayah Persekutuan Kuala Lumpur dan Program TVET untuk guru.
- Bengkel Pelan Anti-Rasuah Organisasi (OACP) dan Peraturan Construction Design Management (CDM) 2024.

Konvensyen LJM 2024 telah menjadi platform dinamik bagi memperkukuh piawaian profesional, memperkasakan tadbir urus beretika, meningkatkan daya saing global serta menginspirasi generasi baharu jurutera di Malaysia.

Day 3 - 4: Professional Recognition & Capacity Building

Parallel sessions and workshops strengthened education outreach and governance.

Highlights:

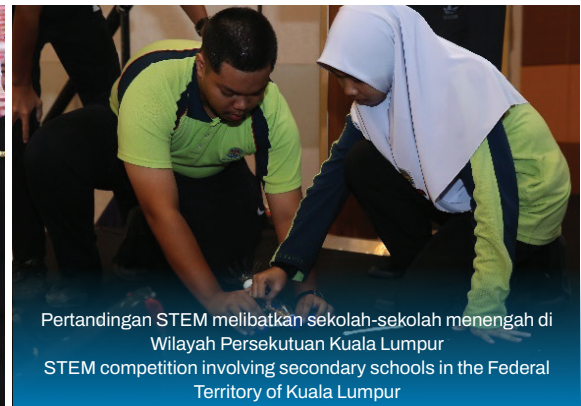
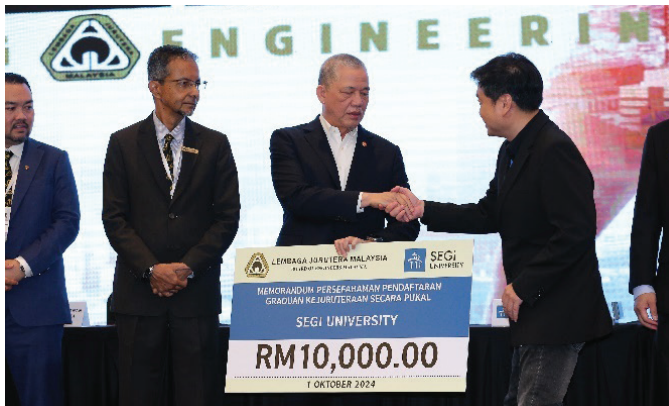
- Professional Engineers (PE) Conferment Ceremony and BEM Leadership & Management Program Graduation.
- STEM Competition Programme for selected Secondary Schools in Wilayah Persekutuan Kuala Lumpur and TVET Teachers' Programme.
- Workshops on Organizational Anti-Corruption Plan (OACP) and Construction Design Management (CDM) Regulations 2024.

The BEM Convention 2024 served as a dynamic platform to advance professional standards, strengthen ethical governance, enhance global competitiveness, and inspire the next generation of engineers in Malaysia.





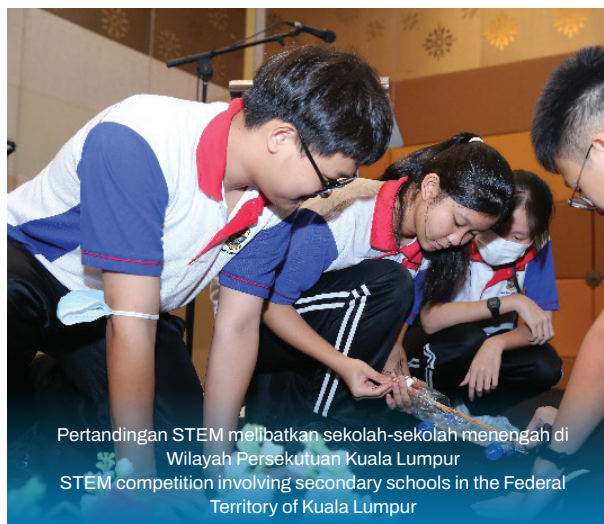
YAB Dato' Sri Haji Fadillah bin Haji Yusof, Timbalan Perdana Menteri melawat Pertandingan STEM
YAB Dato' Sri Haji Fadillah bin Haji Yusof, Deputy Prime Minister visited the STEM Competition



Pertandingan STEM melibatkan sekolah-sekolah menengah di Wilayah Persekutuan Kuala Lumpur
STEM competition involving secondary schools in the Federal Territory of Kuala Lumpur



Sesi bacaan doa bagi memberkati Konvensyen LJM 2024
Prayer recitation session to bless the BEM Convention 2024.



Pertandingan STEM melibatkan sekolah-sekolah menengah di Wilayah Persekutuan Kuala Lumpur
STEM competition involving secondary schools in the Federal Territory of Kuala Lumpur



YBhg. Datuk Ir. Ahmad Redza Ghulam Rasool, Yang Dipertua LJM
meyampaikan ucapan
YBhg. Datuk Ir. Ahmad Redza Ghulam Rasool, BEM President, delivering his speech.

MAJLIS PENTAULIAHAN LJM 2024 & GRADUASI PROGRAM KEPIMPINAN DAN PENGURUSAN LJM

2 OKTOBER 2024

DEWAN 3, MENARA FELDA, PLATINUM PARK, KUALA LUMPUR

Majlis Pentaualiahan LJM 2024 dan Graduasi Program Kepimpinan dan Pengurusan LJM telah berlangsung pada 2 Oktober 2024 di Dewan 3, Menara FELDA, Kuala Lumpur.

Majlis tersebut telah disempurnakan oleh YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool, Yang Dipertua Lembaga Jurutera Malaysia (LJM), yang turut menyampaikan pentaualiahan kepada peserta kedua-dua program tersebut.

Seramai 24 peserta telah berjaya menamatkan Program Kepimpinan dan Pengurusan LJM, yang bertujuan memperkukuh keupayaan kepimpinan, kemahiran pengurusan, serta pemikiran strategik dalam kalangan jurutera yang memegang peranan penting dalam organisasi masing-masing.

Majlis Pentaualiahan Jurutera Profesional (PE Conferment Ceremony) pula telah melibatkan 155 jurutera profesional baharu yang berjaya berdaftar di bawah seksyen 10, REA 1967.

Majlis ini dilaksanakan dalam dua sesi dan telah disempurnakan oleh YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool serta YBhg. Dato' Indera Ir. Dr. Haji Ahmad Sabirin bin Arshad, Pengerusi Majlis Akreditasi Kejuruteraan (EAC).

Majlis ini mencerminkan komitmen berterusan LJM dalam menegakkan piawaian profesional, mengiktiraf kecemerlangan kejuruteraan serta melahirkan pemimpin berwibawa yang berupaya memacu kemajuan profesion kejuruteraan di Malaysia.

BEM PROFESSIONAL CONFERMENT CEREMONY 2024 & BEM LEADERSHIP AND MANAGEMENT PROGRAMME GRADUATION

2 OCTOBER 2024

DEWAN 3, MENARA FELDA, PLATINUM PARK, KUALA LUMPUR

The BEM Conferment Ceremony 2024 and BEM Leadership and Management Program Graduation, took place on 2 October 2024 at Dewan 3, Menara FELDA, Kuala Lumpur.

The ceremony was officiated and led by YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool, President of the Board of Engineers Malaysia (BEM), and witnessed the conferment of professional recognition to participants from both programmes.

A total of 24 participants successfully completed the BEM Leadership and Management Program, an initiative aimed at enhancing leadership capability, management competency, and strategic thinking among engineers holding leadership roles in the profession.

The Professional Engineer (PE) Conferment Ceremony saw the participation of 155 newly registered Professional Engineers under section 10, REA 1967.

The ceremony was conducted in two sessions and conferred by YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool and YBhg. Dato' Indera Ir. Dr. Haji Ahmad Sabirin bin Arshad, Chairman of the Engineering Accreditation Council (EAC).

The event symbolised BEM's continued commitment to upholding professional standards, recognising engineering excellence, and nurturing capable leaders who contribute to the advancement of the engineering profession in Malaysia.

Sekitar Majlis Pentauliahian LJM 2024 & Graduasi Program Kepimpinan & Pengurusan LJM yang berlangsung pada 2 Oktober 2024 di Dewan 3, Menara Felda, Platinum Park, Kuala Lumpur

Around BEM Professional Conferment Ceremony 2024 & BEM Leadership & Management Programme Graduation held on 2 October 2024 at Dewan 3, Menara Felda, Platinum Park, Kuala Lumpur



**MAJLIS MAKAN MALAM DAN
PENGANUGERAHAN LJM 2024****3 OKTOBER 2024****MENARA FELDA, PLATINUM PARK, KUALA
LUMPUR**

Majlis Makan Malam dan Penghargaan LJM 2024 telah diadakan pada 3 Oktober 2024 bertempat di Menara FELDA dan telah disempurnakan oleh YB Dato Sri Alexander Nanta Linggi, Menteri Kerja Raya.

Merupakan sebahagian inisiatif LJM bagi meraikan sumbangan serta pencapaian cemerlang warga kejuruteraan di negara ini, majlis ini merupakan sebuah wadah penghargaan bagi:

- (i) mengiktiraf dan menghargai Jurutera Malaysia yang telah memberikan sumbangan penting kepada fraterniti kejuruteraan, masyarakat dan negara, di peringkat kebangsaan dan antarabangsa,
- (ii) mengiktiraf organisasi yang telah memperlihatkan keaslian dan keberanian untuk menginovasikan teknologi, sambil memastikan impak positif terhadap masyarakat, ekonomi, dan kelestarian alam sekitar; dan.
- (iii) mengiktiraf Amalan Perunding Kejuruteraan yang secara proaktif mengambil bahagian, mengamalkan, dan meningkatkan prestasi SHE dalam penyampaian perkhidmatan serta konsistensi dalam mengamalkan aspek Keselamatan & Kesihatan dan Alam Sekitar di tempat kerja.

Kemuncak majlis adalah penyampaian anugerah kejuruteraan kebangsaan 2024 serta beberapa anugerah berprestij lain kepada penerima yang telah dipilih berdasarkan kecemerlangan dan sumbangan mereka terhadap industri kejuruteraan negara, seperti berikut:

Anugerah Tokoh Kejuruteraan Negara 2024
YBhg. Datuk Paduka Ir. Dr. Keizrul bin Abdullah

Tokoh Muda Kejuruteraan Negara 2024
Prof. Madya Ir. Dr. Hassimi bin Abu Hassan

Anugerah Kecemerlangan Inovasi Kejuruteraan 2024
Petroliam Nasional Berhad (PETRONAS)

Anugerah Kecemerlangan Keselamatan, Keselamatan, Kesihatan dan Alam Sekitar BEM-ECP 2024
Opus Consultants (M) Sdn Bhd

Majlis ini turut menjadi medan untuk mengukuhkan hubungan strategik antara LJM dan pihak berkepentingan industri serta menzahirkan penghargaan atas sokongan berterusan dalam usaha memperkasa profesion kejuruteraan di Malaysia.

**BEM AWARDS AND APPRECIATION DINNER
2024****3 OCTOBER 2024****MENARA FELDA, PLATINUM PARK, KUALA
LUMPUR**

The BEM Award and Appreciation Dinner 2024 was held on 3 October 2024 at Menara FELDA and was graced by YB Dato Sri Alexander Nanta Linggi, Minister of Works.

Organised as part of the Board's initiative to celebrate outstanding contributions and achievements within the engineering fraternity, the event served as a platform to:

- (i) recognise and honour Malaysian engineers who have made significant contributions to the engineering fraternity, society and the nation at both national and international levels;
- (ii) recognise organisations that have demonstrated originality and courage in innovating technology while ensuring a positive impact on society, the economy, and environmental sustainability; and
- (iii) recognise Engineering Consultancy Practices that proactively participate in, implement, and enhance SHE (Safety, Health and Environment) performance in service delivery, while consistently upholding safety, health, and environmental standards in the workplace.

The highlight of the evening was the presentation of prestigious awards to recognise excellence in various categories, as follows:

National Engineering Icon Award 2024
YBhg. Datuk Paduka Ir. Dr. Keizrul bin Abdullah

National Young Engineering Icon Award 2024
Prof. Madya Ir. Dr. Hassimi bin Abu Hassan

Engineering Innovation Excellence Award (IEIA) 2024
Petroliam Nasional Berhad (PETRONAS)

BEM-ECP Safety, Health and Environmental Excellence Award (BESHEXA) 2024
Opus Consultants (M) Sdn Bhd

The dinner also provided an opportunity to appreciate the continuous support of BEM stakeholders and to strengthen professional relationships among engineers, policymakers, and industry representatives.



Peperiksaan Kompetensi Profesional (PCE) 2024
Professional Competency Examination 2024
(22 – 23 OKTOBER 2024)

Negeri (State)	Tempat (Venue)	Jumlah Calon (Total Candidates)
Semenanjung Malaysia	Dewan 2 & 3, Bangunan Peperiksaan University Malaya, Kuala Lumpur	414
Sabah	Pusat Ltihan JKR Sabah, Kota Kinabalu.	43
Sarawak	Swinburne University of Technology, Sarawak Campus	49
Jumlah Keseluruhan		506



Sekitar Peperiksaan Kompetensi Profesional (PCE) 2024 di Universiti Malaya
Professional Competency Examination (PCE) 2024 at Universiti Malaya

JERAYAWARA LJM 2024**13 – 14 NOVEMBER 2024****HOTEL WATERFRONT KUCHING,
SARAWAK****&****19 – 20 NOVEMBER 2024****SUTERA HARBOUR, KOTA KINABALU,
SABAH**

Jerayawara LJM 2024 telah berjaya dilaksanakan di Kuching dan Kota Kinabalu, menghimpunkan jurutera, pengamal industri serta pihak pengawal selia bagi memperkukuh amalan profesional, etika serta tadbir urus dalam kalangan warga kejuruteraan.

Hari Pertama menampilkan Seminar berkaitan kemas kini peraturan serta etika profesional, dan Bengkel untuk pemeriksa bagi Peperiksaan Penilaian Profesional Berasaskan Hasil (PAE).

Sorotan Utama:

- Perkongsian mengenai Certificate of Completion and Compliance (CCC) dan Akta Pendaftaran Jurutera 1967 (REA)
- Perbincangan mengenai Etika Profesional dan Skala Yuran Perkhidmatan Perunding Kejuruteraan
- Bengkel Pemeriksa PAE merangkumi modul praktikal, kajian kes dan kaedah penilaian

Hari Kedua memberi tumpuan kepada pembangunan kerjaya, tadbir urus serta peraturan keselamatan pembinaan yang baharu.

Sorotan Utama:

- Perbincangan mengenai gaji permulaan jurutera dan laluan pendaftaran ASEAN/APEC
- Sesi mengenai Pendaftaran Juruaudit Keselamatan Jalan Raya, Seksyen 17A Akta SPRM, serta keperluan CPD wajib
- Bengkel mengenai Peraturan Construction Design Management (CDM) yang menekankan tanggungjawab dan patuhan oleh pereka bentuk

Program ini telah menjadi platform yang berkesan bagi perkongsian ilmu, jaringan profesional dan pementapan tadbir urus yang baik dalam komuniti kejuruteraan Malaysia.

BEM ROADSHOW 2024**13 – 14 NOVEMBER 2024****WATERFRONT HOTEL, KUCHING,
SARAWAK****&****19 – 20 NOVEMBER 2024****SUTERA HARBOUR, KOTA KINABALU,
SABAH**

The BEM Roadshow 2024 was successfully held in Kuching and Kota Kinabalu, bringing together engineers, industry practitioners, and regulators to strengthen professional practice, ethics, and governance within the engineering fraternity.

Day 1 featured a Seminar on regulatory updates and professional ethics, and a Workshop for examiners on the Outcome-Based Professional Assessment Examination (PAE).

Key Highlights:

- Updates on the Certificate of Completion and Compliance (CCC) and Registration of Engineers Act 1967 (REA)
- Discussions on Professional Ethics and Scale of Fees for Professional Engineering Services
- PAE Examiner Workshop covering practical modules, case studies and assessment methodology

Day 2 focused on professional growth, governance, and new construction safety regulations.

Key Highlights:

- Addressing engineers' starting salary and ASEAN/APEC registration pathways
- Sessions on Road Safety Auditor Registration, Section 17A MACC Act, and Mandatory CPD Requirements
- Workshop on Construction Design Management (CDM) Regulations, emphasizing designer responsibilities and compliance

The Roadshow provided an effective platform for knowledge sharing, professional networking, and promoting good governance among Malaysia's engineering community.

Sekitar Program Jerayawara LJM 2024 di Sabah dan Sarawak

Around BEM Roadshow 2024 in Sabah and Sarawak



Dewan utama jerayawara LJM 2024 di Sabah
Main hall for BEM Roadshow 2024 in Sabah



Bengkel Pemeriksa PAE
PAE Examiner Workshop



HARI TERBUKA LJM 2024**13 – 14 NOVEMBER 2024****HOTEL WATERFRONT KUCHING,
SARAWAK****&****19 – 20 NOVEMBER 2024****HOTEL PACIFIC SUTERA, KOTA
KINABALU, SABAH**

LJM dengan bangganya telah menganjurkan Hari Terbuka LJM 2024 di Sarawak dan Sabah bagi meraikan profesion kejuruteraan, memberi inspirasi kepada jurutera masa depan, serta memperkukuh hubungan dengan para pemegang taruh di Malaysia Timur.

Program selama dua hari di setiap lokasi ini menampilkan kehebatan dan kepentingan bidang kejuruteraan melalui sesi perkongsian oleh pakar, aktiviti interaktif, pameran, dan pertandingan STEM. Para peserta, yang terdiri daripada pelajar hingga ke golongan profesional, berpeluang memperoleh pendedahan mengenai peluang kerjaya serta perkembangan dalam bidang kejuruteraan, di samping terlibat dalam aktiviti praktikal yang mencetuskan rasa ingin tahu dan kreativiti.

Objektif program:

- (i) Memberi pendedahan kepada peserta mengenai proses pendaftaran wajib dengan LJM serta fungsi pengawalseliaannya.
- (ii) Memberikan panduan mengenai laluan kerjaya dan peluang baharu dalam profesion kejuruteraan.
- (iii) Menggalakkan kreativiti dan pendidikan STEM melalui pertandingan serta aktiviti interaktif.
- (iv) Menyediakan platform rangkaian antara jurutera profesional, pelajar, pemimpin industri, dan penggubal dasar.
- (v) Memberi inspirasi kepada generasi muda dengan menonjolkan potensi dalam sektor kejuruteraan dan teknologi.

Hari Terbuka LJM 2024 di Sarawak dan Sabah berlangsung dengan penuh interaksi dan jayanya Program dimulakan dengan ucapan alu-aluan oleh Ir. Dr. Sherliza binti Zaini Sooria, yang menekankan kepentingan melahirkan bakat muda dalam bidang kejuruteraan, diikuti ceramah kejuruteraan oleh Ir. Dr. Megat Zuhairy bin Megat Tajuddin, yang menyoroti peranan penting jurutera dalam memacu Malaysia ke arah Revolusi Perindustrian 4.0.

BEM OPEN DAY 2024**13 – 14 NOVEMBER 2024****WATERFRONT HOTEL, KUCHING,
SARAWAK****&****19 – 20 NOVEMBER 2024****PACIFIC SUTERA HOTEL, KOTA
KINABALU, SABAH**

BEM proudly hosted its Open Day 2024 in Sarawak and Sabah to celebrate the engineering profession, inspire future engineers, and strengthen ties with stakeholders in East Malaysia.

This two-day event in each location showcased the transformative power of engineering through expert-led talks, interactive activities, exhibitions, and STEM competitions. Participants, ranging from students to professionals, gained insights into career opportunities and advancements in engineering while engaging in hands-on experiences designed to spark curiosity and creativity.

Proramme Objectives:

- (I) Educate participants on the mandatory registration process with BEM and its regulatory functions.
- (II) Provide insights into career pathways and emerging opportunities in the engineering profession.
- (III) Promote creativity and STEM education through interactive competitions and activities.
- (IV) Facilitate networking among engineering professionals, students, industry leaders, and policymakers.
- (V) Inspire future engineers by showcasing the possibilities within the engineering and technological sectors.

v

The BEM Open Day 2024 in Sarawak and Sabah was an engaging two-day event designed to celebrate the engineering profession and inspire the next generation of engineers. The programme began with welcoming remarks by Ir. Dr. Sherliza binti Zaini Sooria, who emphasised the importance of nurturing young engineering talent, followed by a presentation by Ir. Dr. Megat Zuhairy bin Megat Tajuddin, who highlighted the pivotal role of engineers in leading Malaysia through Industrial Revolution 4.0.

Hari pertama menampilkan sesi perbincangan panel yang memberi tumpuan kepada prospek kerjaya dalam bidang kejuruteraan, laluan menjadi jurutera profesional, serta pemilihan kelayakan yang sesuai.

Antara panelis ternama ialah Prof. Lau Hieng Ho, Ir. Dr. Angelia Liew San Chuin, dan YBhg. Datu Ir. Haji Zuraimi Haji Sabki, yang berkongsi pandangan berharga tentang trend industri dan kesediaan graduan.

Pameran Kejuruteraan turut menampilkan projek inovatif daripada UNIMAS, Swinburne University of Technology Sarawak, dan UMS, manakala Majlis Penganugerahan Profesional mengiktiraf 65 Jurutera Profesional berdaftar baharu atas pencapaian mereka.

Hari kedua pula memberi tumpuan kepada aktiviti pendidikan interaktif seperti pertandingan STEM yang menggalakkan kreativiti dan penyelesaian masalah melalui cabaran seperti pembinaan jambatan dan reka bentuk kereta getah gelang.

Sesi “Sembang Chillex Kejuruteraan” pula menyediakan ruang santai untuk pelajar berinteraksi dengan jurutera profesional serta memahami peluang kerjaya dalam bidang ini.

Program diakhiri dengan Majlis Penyampaian Hadiah bagi menghargai inovasi dan penyertaan cemerlang para peserta. Secara keseluruhannya, Hari Terbuka LJM 2024 berjaya menggabungkan elemen pendidikan, inspirasi, dan penghargaan, sekali gus memperkukuh hubungan antara pelajar, profesional, dan pemegang taruh serta mempromosikan profesion kejuruteraan di Malaysia Timur.

Day 1 featured insightful panel discussions covering topics such as career prospects in engineering, pathways to becoming a professional engineer, and choosing the right qualifications.

Renowned panellists, including Prof. Lau Hieng Ho, Ir. Dr. Angelia Liew San Chuin, and YBhg. Datu Ir. Haji Zuraimi Haji Sabki, shared valuable perspectives on industry trends and graduate readiness.

The Engineering Exhibition showcased innovative projects from UNIMAS, Swinburne University of Technology Sarawak, and UMS, while the Professional Conferment Ceremony honoured 65 newly registered Professional Engineers for their professional accomplishments.

Day 2 focused on interactive and educational activities, including STEM competitions that encouraged creativity and problem-solving among students through hands-on challenges like bridge construction and rubber band car design.

The “Sembang Chillex Kejuruteraan” session offered an informal platform for students to engage with professional engineers and explore potential career pathways.

The event concluded with a Prize-Giving Ceremony recognising outstanding innovation and participation. Overall, BEM Open Day 2024 successfully blended education, inspiration, and celebration, strengthening connections among students, professionals, and stakeholders while promoting the engineering profession in East Malaysia.

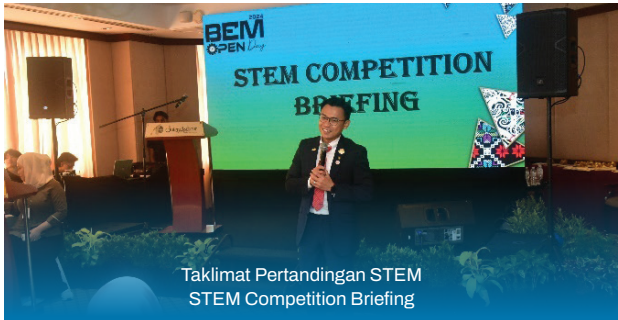


Sesi pendaftaran para peserta
Participants registration session



Penganugerahan Jurutera Profesional baharu di Sabah
Professional Engineer Conferment Ceremony in Sabah

Sekitar Sesi Taklimat kepada Mahasiawa Institusi Pengajian Tinggi dan Pemegang Ijazah Kejuruteraan Bakal Berdaftar serta Pertandingan STEM Sabah & Sarawak
Highlights from the briefing session for Higher Education Institution students and prospective engineering degree holders, as well as the Sabah & Sarawak STEM Competition.



HARI PROFESION TEKNIKAL NEGARA 2024

PUSAT KONVENSYEN PICCA, BUTTERWORTH, PULAU PINANG 11-12 NOVEMBER 2024

LJM merupakan rakan strategik aktif bagi Hari Profesional Teknikal Negara (HPTN) 2024 dan telah memainkan peranan penting dalam memastikan kejayaan pelaksanaan program berkenaan.

Selaras dengan komitmen LJM untuk memartabatkan profesion kejuruteraan, LJM telah membuka ruang pameran, menjalankan program jangkauan dan pendaftaran serta menganjurkan program Bicara Poket Kejuruteraan HPTN pada 11 Disember 2024 di Pusat Konvensyen PICCA, Butterworth, Pulau Pinang. Program Bicara Poket Kejuruteraan HPTN ini telah menarik penyertaan lebih 100 pelajar kejuruteraan daripada pelbagai institusi pengajian tinggi di wilayah utara.

Majlis dimulakan dengan ucapan alu-aluan oleh Ir. Fam Yew Hin, Pengerusi Jawatankuasa Komunikasi Korporat LJM, diikuti dengan tayangan video HPTN 2024 dan video korporat LJM.

Seterusnya, satu Majlis Pentauliahkan Profesional telah diadakan bagi meraikan jurutera profesional yang baru berdaftar, termasuk Jurutera Profesional (PE) dan, Jurutera Profesional dengan Perakuan Amalan (PEPC).

Program diteruskan dengan siri sesi ceramah dan forum panel yang dikendalikan oleh tokoh-tokoh terkemuka seperti Ir. Dr. Megat Zuhairy bin Megat Tajuddin, YBhg. Dato' Indera Ir. Dr. Ahmad Sabirin bin Arshad, dan YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool, yang berkongsi pandangan dan pengalaman mengenai pembangunan kerjaya, pendaftaran profesional serta hala tuju masa depan profesion kejuruteraan.

Program diakhiri dengan Majlis Penyampaian Sijil yang disempurnakan oleh YBhg. Dato' Ir. Ibrahim bin Esa, Pengerusi Jawatankuasa Penganjur HPTN, diikuti dengan ucapan penutup oleh YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool, Bekas Presiden LJM. Program ini telah berjaya menyediakan platform bagi pelajar untuk memahami dengan lebih mendalam peranan LJM sebagai badan pengawal selia, meneroka laluan kerjaya profesional, serta berinteraksi secara langsung dengan pemimpin industri dan pembuat dasar - sekali gus mengukuhkan peranan LJM dalam melahirkan generasi jurutera masa depan di Malaysia.

NATIONAL PROFESION TECHNICAL DAY 2024

PICCA, BUTTERWORTH, PULAU PINANG 11-12 NOVEMBER 2024

The Board of Engineers Malaysia (BEM) was an active strategic partner for Hari Profesional Teknikal Negara (HPTN) 2024 and played a significant role in ensuring the success of its programmes.

In line with BEM's commitment to elevating the engineering profession, BEM set up an exhibition booth, conducted outreach and registration activities, and organised the HPTN Mini Pocket Engineering Talk on 11 December 2024 at the PICCA Convention Centre, Butterworth, Penang. The HPTN Mini Pocket Engineering Talk programme attracted the participation of over 100 engineering students from various higher learning institutions in the northern region.

The event began with welcoming remarks by Ir. Fam Yew Hin, Chairman of the BEM Corporate Communication Committee, followed by video presentations on HPTN 2024 and BEM's corporate initiatives.

The session continued with a Professional Conferment Ceremony to honour newly registered Professional Engineers (PE) and PE with Practising Certificates (PEPC).

A series of insightful talks and panel sessions were conducted, including presentations by Ir. Dr. Megat Zuhairy bin Megat Tajuddin, YBhg. Dato' Indera Ir. Dr. Ahmad Sabirin bin Arshad, YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool, and other distinguished speakers who shared valuable perspectives on career development, professional registration, and the evolving landscape of the engineering profession.

The programme concluded with a certificate presentation ceremony by YBhg. Dato' Ir. Ibrahim bin Esa, Chairman of the HPTN Organising Committee, followed by closing remarks by YBhg. Datuk Ir. Ahmad Redza bin Ghulam Rasool, Past President of BEM. The event successfully provided a platform for students to gain deeper understanding of BEM's regulatory role, explore professional career pathways, and engage directly with industry leaders and policymakers, reaffirming BEM's dedication to nurturing future engineering talents in Malaysia.



Majlis Pentauliahn Profesional
PE Conferment Ceremony



Majlis Pentauliahn Profesional
PE Conferment Ceremony



Ruang pameran LJM di HPTN 2024
BEM booth for HPTN 2024



Para peserta yang menghadiri Bicara Poket Kejuruteraan HPTN
Participants in attendance at the Mini Pocket Engineering Talk



Para peserta yang terdiri daripada para pelajar institusi pengajian tinggi di utara Malaysia yang menghadiri Bicara Poket Kejuruteraan HPTN
Participants comprising students from Institutions of Higher Learnings in Northern Malaysia attending the Mini Pocket Engineering Talk

SEKITAR AKTIVITI EAC & ETAC (EAD) AROUND THE EVENT EAC & ETAC (EAD)



EAC Accreditation Decision Meeting (EAC-ADM), 8 Jan 2024



Sesi Libat Urus Majlis Pengurusan Kualiti (MPQ) Universiti Awam bersama EAD, BEM, 30 Jan 2024



Engagement Session EAC with Evaluation Panel 2024, 25 September 2024



Engagement Session EAC with Institutions of Higher Learning (IHL), 09 October 2024



Training on Accreditation Report Writing-Do's & Don'ts, 19 & 20 November 2024



LAPORAN TAHUNAN 2024

ANNUAL REPORT

PENYATA KEWANGAN 2024

FINANCIAL STATEMENT 2024



LEMBAGA JURUTERA MALAYSIA
TINGKAT 11 & 17, BLOK F, IBU PEJABAT JKR
JALAN SULTAN SALAHUDDIN, 50580 KUALA LUMPUR

TEL : +603-26912090
FAX : +603-26925017
EMAIL : ENQUIRY@BEM.ORG.MY
WEB : WWW.BEM.ORG.MY