

THE INSTITUTION OF ENGINEERS, MALAYSIA INSTITUSI JURUTERA MALAYSIA





→ TABLE OF CONTENTS Isi Kandungan



IEM Past Presidents	2
IEM Distinguished Honorary Fellows	2
IEM Honorary Fellows	2
IEM Honorary Members	3
IEM Functions	4
Council Members for Session 2021/2022	5
Notice of 63 rd Annual General Meeting	6
Executive Committee of Council	7
Board of Management – IEM Education Fund	7
Board of Management – IEM Benevolent Fund	7
External Auditors and Honorary Internal Auditors	7
Standing Committees	8 - 10
Sub-Committees / Ad Hoc Committees / Special Committees	11 - 19
Technical Divisions and Groups	20 - 26
Regional Branches	27 - 29
Organising Committees / Task Forces	30 - 31
IEM Outside Bodies Representation (OBR)	32 - 41
Engineering Hall of Fame	42
IEM Top Membership Awards	43 - 44
IEM Outstanding Engineering Achievement Award	45 - 46
IEM Award for Contribution to Engineering Profession in Malaysia	47 - 48
IEM Special Merit Award	48
IEM Woman Engineer Award	49
IEM Young Engineer Award	49
The ASEAN Outstanding Engineering Achievement Award	49 - 51
FEIAP Engineer of the Year Award	51
World Federation of Engineering Organisations (WFEO) Award	51
Minutes of 62 nd Annual General Meeting	52 - 64
List of Attendance for 62 nd Annual General Meeting	65 - 70
Minutes of 62 nd Annual General Meeting (Bahasa Malaysia translation)	71 - 83
Structure of Council for Session 2021/2022	84
Council Members for Session 2021/2022	85
Executive Committee for Session 2021/2022	86
IEM Secretariat	86
Sanpshots of Activities held in Session 2021/2022	87 - 88
Organisation Chart – Session 2021/2022	89
63 rd Annual Report – Session 2021/2022	90 - 141
Summary Sheet of Activities for Year 2021	142 - 152
Financial Statements for the Year Ended 31 December 2021	153 - 182
Pie Charts	183
IFM Education Fund	186 - 105





→ PAST PRESIDENT Bekas Yang Dipertua



Sessions	Past Presidents
1959/62	Allahyarham Tan Sri Ir. (Dr.) Haji Yusoff bin Haji Ibrahim
1962/64	Allahyarham Raja Tan Sri Ir. Zainal bin Raja Sulaiman
1964/66	Late Ir. Thean Lip Thong
1966/68	Late Tan Sri Datuk Ir. Prof. Dr. Chin Fung Kee
1968/69	Late Ir. Ow Yang Hong Chiew
1969/70	Late Ir. Chan Peng Khuen
1970/72	Allahyarham Tan Sri Dato' (Dr.) Ir. Haji Abu Zarim bin Haji Omar
1972/74	Late Academician Tan Sri Ir. (Dr.) J. G. Daniel
1974/75	Allahyarham Tan Sri Datuk Ir. Haji Halaluddin bin Mohd. Ishak
1975/77	Late Ir. Chan Khee Pok
Apr-Dec 1977	Allahyarham Tan Sri Datuk Ir. Mahfoz bin Khalid
1977/79	Allahyarham Ir. Tuan Haji Mohd. Razali bin Bidin
1979/81	Late Ir. Wong Kin Hong
1981/82	Late Ir. Chiam Teong Tee
1982/84	Allahyarham Tan Sri Datuk Ir. Haji Mohd Hassan bin Abdul Wahab
1984/86	Late Y.Bhg. Dato' Ir. Pang Leong Hoon
1986/88	Allahyarham Ir. Tuan Haji Abdul Rahman bin Yaacob

Sessions	Past Presidents
1988/90	Y.Bhg. Academician Dato' Ir. Lee Yee Cheong
1990/92	Allahyarham Dato' Ir. Mustafa bin Ahmad
1992/93	Ir. Chong Pick Eng (P.E. Chong)
1993/95	Y.Bhg. Dato' Ir. Abdul Rashid bin Ahmad
1995/97	Ir. Dr. Ting Wen Hui
1997/99	Allahyarham Ir. Haji Mohd. Mazlan bin Md. Ismail Merican
1999/01	Y.Bhg. Academician Tan Sri Datuk Ir. (Dr.) Haji Ahmad Zaidee bin Laidin
2001/03	Y.Bhg. Dato' Ir. Dr. Gue See Sew
2003/05	Y.Bhg. Dato' Ir. Prof. Abang Abdullah bin Abang Ali
2005/07	Y.Bhg. Datuk Ir. Prof. Dr. Ow Chee Sheng
2007/09	Y.Bhg. Dato' Paduka Ir. Prof. (Dr.) Haji Keizrul bin Abdullah
2009/11	Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik
2011/13	Ir. Vincent Chen Kim Kieong
2013/14	Ir. Choo Kok Beng
2014/16	Y.Bhg. Dato' Ir. Lim Chow Hock
2016/18	Ir. Dr. Tan Yean Chin
2018/20	Ir. David Lai Kong Phooi



IEM DISTINGUISHED HONORARY FELLOW Fellow Kehormat Tertinggi, IEM ←



Year	Name Of Recipient
2003	Y.A.Bhg. Tun Dr. Mahathir bin Mohamed

Year	Name Of Recipient
2010	Y.Bhg. Academician Dato' Ir. Lee Yee Cheong



IEM HONORARY FELLOW Fellow Kehormat, IEM



Year	Name Of Recipient
1981	Allahyarham Tan Sri Ir. (Dr.) Haji Yusoff bin Haji Ibrahim
1981	Allahyarham Raja Tan Sri Ir. Zainal bin Raja Sulaiman
1981	Late Ir. Thean Lip Thong
1981	Late Tan Sri Datuk Ir. Prof. Dr. Chin Fung Kee
1982	Allahyarham Tan Sri Dato' (Dr.) Ir. Haji Abu Zarim bin Haji Omar
1982	Late Academician Tan Sri Ir. (Dr.) J. G. Daniel
1984	Y.A.Bhg. Tun Dr. Mahathir bin Mohamed (transferred to Grade of Distinguished Hon Fellow in 2004)
1986	Late Ir. Chiam Teong Tee
1986	Allahyarham Tan Sri Datuk Ir. Haji Mohd. Hassan bin Abdul Wahab
1988	Allahyarham Tun Hussein Onn

Year	Name Of Recipient
1989	Al-Marhum Paduka Seri Sultan Azlan Muhibbuddin Shah Ibni al-Marhum Sultan Yussuf Izzuddin Shah Ghafarullahu-Lah
1991	Late Y.Bhg. Dato' Ir. Pang Leong Hoon
1991	Prof. Dr. Ing. B. J. Habibie
1993	Allahyarham Dato' Ir. Mustafa bin Ahmad (posthumous)
1993	Y.Bhg. Tan Sri Dato' Ir. (Dr.) Shamsuddin bin Abdul Kadir
1993	Y.Bhg. Academician Dato' Ir. Lee Yee Cheong (transferred to Grade of Distinguished Hon Fellow in 2010)
1994	Al-Marhum Tuanku Ja'afar Ibni al-Marhum Tuanku Abdul Rahman
1995	Y.Bhg. Datuk Amar (Dr.) Leo Moggie
1998	Y.A.Bhg. Tun Daim Zainuddin



Year	Name Of Recipient
2001	Y.A.Bhg. Dato' Seri Abdullah bin Haji Ahmad Badawi
2003	Y.Bhg. Dato' Seri Law Hieng Ding
2004	Y.Bhg. Datuk Tham Nyip Shen
2006	Late Ir. Teoh Cheng Hock (Ir. C.H. Teoh) (posthumous)
2007	Y.Bhg. Tan Sri Dato' Ir. Haji Zaini bin Omar
2008	Y.A.Bhg. Pehin Seri Tan Sri Dr. Haji Abdul Taib bin Mahmud
2008	Y.A.Bhg. Datuk Seri Panglima Musa bin Haji Aman
2008	Y.A.Bhg. Dato' Seri Ir. Hj. Mohammad Nizar bin Jamaluddin
2009	Y.Bhg. Dato' Sri Ir. Mohd Zin bin Mohamed
2012	Y.Bhg. Dato' Ir. Donald Lim Siang Chai
2012	Ir. Dr. Ooi Teik Aun
2012	Late Ir. Ow Yang Hong Chiew (posthumous)
2012	Late Ir. Chan Peng Khuen (posthumous)
2012	Allahyarham Tan Sri Datuk Ir. Haji Halaluddin bin Mohd Ishak <i>(posthumous)</i>
2012	Late Ir. Chan Khee Pok (posthumous)
2012	Allahyarham Tan Sri Datuk Ir. Mahfoz bin Khalid (posthumous)
2012	Allahyarham Ir. Haji Mohd. Razali bin Bidin (posthumous)
2012	Late Ir. Wong Kin Hong (posthumous)
2012	Allahyarham Ir. Haji Abdul Rahman bin Yaacob
2012	Ir. Chong Pick Eng (P.E. Chong)
2012	Y.Bhg. Dato' Ir. Abdul Rashid bin Ahmad
2012	Ir. Dr. Ting Wen Hui

Year	Name Of Recipient
2012	Allahyarham Ir. Haji Mohd Mazlan bin Md. Ismail Merican
2012	Y.Bhg. Academician Tan Sri Datuk Ir. (Dr.) Haji Ahmad Zaidee bin Laidin
2012	Y.Bhg. Dato' Ir. Dr. Gue See Sew
2012	Y.Bhg. Dato' Ir. Prof. Abang Abdullah bin Abang Ali
2012	Y.Bhg. Datuk Ir. Prof. Dr. Ow Chee Sheng
2012	Y.Bhg. Dato' Paduka Ir. Prof. (Dr.) Haji Keizrul bin Abdullah
2013	Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik
2013	Y.Bhg. Dato' Seri Ir. Mohd Noor bin Yaakob
2014	Ir. Vincent Chen Kim Kieong
2014	Y.Bhg. Dato' Sri Ir. Dr. Judin bin Abdul Karim
2014	Y.Bhg. Tan Sri Dato' Ir. Dr. Gan Thian Leong
2014	Allahyarham Dato' Ir. Prof. Dr. Radin Umar bin Radin Sohadi <i>(posthumous)</i>
2015	Y.Bhg. Tan Sri Dato' Seri Jeffrey Cheah Fook Ling AO
2016	Y.Bhg. Dato' Ir. Donald Lim Siang Chai
2016	Ir. Choo Kok Beng
2017	Mr. Antonio Guterres
2017	Professor Dr. Shahbaz Khan
2018	Ir. Khoo Choong Keow
2019	Late Ir. M. C. Hee (posthumous)
2019	Y.Bhg. Dato' Ir. Lim Chow Hock
2020	Ir. Dr. Tan Yean Chin
2021	Y.Bhg. Datuk Ir. Mohd Zulkefly bin Sulaiman



IEM HONORARY MEMBER Ahli Kehormat, IEM



Year	Name Of Recipient
2009	Late Master Yeoh Tong Eng
2012	En. Mohd. Annuar bin Taib
2012	Y.Bhg. Dato' Hj. Abd. Halim bin Hj. Abd. Latif
2012	Y.Bhg. Dato' Baharudin bin Sariman
2012	Y.Bhg. Dato' Gan Boon Khuay
2012	Puan Salmah binti Mohd Taufik
2013	Y.Bhg. Dato' Prof. Dr. Mohd Noh bin Dalimin

Year	Name Of Recipient
2013	Y.Bhg. Dato' Dr. Mohamad bin Hashim
2014	Y.Bhg. Dato' Lau Siu Wai
2014	Y.Bhg. Datuk Dr. Abu Bakar bin Mohamad Diah
2015	Y.Bhg. Datuk Professor Dr. Shahrin bin Sahib @ Sahibuddin
2017	Y.Bhg. Dato' Emeritus Professor Dr. Hassan Said
2019	Y.Bhg. Dato' Abdul Karim bin Mohd Tahir
2019	Mr. Lim Swee Ee



IEM DISTINGUISHED MEMBER Ahli Tertinggi, IEM



Year	Name Of Recipient
2013	Y.Bhg. Tan Sri Dato' Ir. Teo Chiang Kok



IEM'S VISION

The Institution of Engineers, Malaysia aims to be the premier learned engineering society championing the adoption of ethics and professional best practices in all sectors of the industry.

IEM'S MISSION

IEM shall promote sound professional engineering practice in support of the socio-economic development objectives of the nation.

IEM shall service the needs and interests of its members and the public and uphold the social standing and image of the engineering profession.

IEM shall contribute towards nation building and shall strive to enhance society's consciousness of science, engineering and technology.

IEM'S FUNCTIONS

IEM is a society established to promote and advance the Science and Profession of Engineering in any or all its disciplines and to facililate the exchange of information and ideas related to Engineering.

IEM'S OBJECTIVES

The objectives of The Institution as set out in the Constitution shall include the following:-

- to hold meetings, exhibitions and visits, and such other activities as The Institution may deem incidental or conducive to the promotion or attainment of the profession of engineering;
- (b) to raise the character and status and advance the interests of the profession of engineering and those engaged therein;
- (c) to communicate to members information on all matters affecting the profession of engineering and to print, publish, issue and circulate such publications as may seem conducive to any of the objectives of The Institution; and
- (d) to do such other things as the Institution may think incidental or conducive to the attainment of the objectives of The Institution.





IEM COUNCIL MEMBERS SESSION 2021/2022 Ahli Majlis IEM Sesi 2021/2022



Position	Name				
President	Ir. Ong Ching Loon				
Deputy President	Ir. Prof. Dr. Norlida binti Buniyamin				
Vice Presidents	Ir. Prof. Dr. Leong Wai Yie	Ir. Mohd Khir bin Muhammad			
	Ir. Prof. Dr. Ruslan bin Hassan	Ir. Yau Chau Fong			
	Ir. Mohd Aman bin Hj. Idris	Y.Bhg. Dato' Ir. Ahmad Murad bin Omar			
	Ir. Chen Harn Shean				
Honorary Secretary	Ir. Assoc. Prof. Dr. David Chuah Joon Huan	g			
Honorary Treasurer	Ir. Fam Yew Hin				
Immediate Past President	Ir. David Lai Kong Phooi				
Past Presidents	Y.Bhg. Academician Tan Sri Datuk Ir. (Dr.) I	lj. Ahmad Zaidee bin Laidin			
	Y.Bhg. Dato' Paduka Ir. Keizrul bin Abdullah				
	Y.Bhg. Academician Tan Sri Dato' Ir. Prof. [Dr. Chuah Hean Teik			
	Y.Bhg. Dato' Ir. Lim Chow Hock				
	Ir. Dr. Tan Yean Chin				
Council Member - Civil Rep	Ir. Yap Soon Hoe				
Council Member - Mechanical Rep	Ir. Dr. Aidil bin Chee Tahir				
Council Member - Electrical Rep	Ir. Francis Xavier Jacob				
Council Member - Structural Rep	Ir. Gunasagaran a/l Kristnan				
Council Member - Chemical Rep	Ir. Dr. Chong Chien Hwa				
Council Member - Other Disciplines Rep	Ir. Bhuvendhraa Rudrusamy				
Council Member - Multimedia Rep	Ir. Jeewa Vengadasalam				
Council Members - Ordinary Rep	Ir. Dr. Tan Kuang Leong	Ir. Mah Siew Kien			
	Y.Bhg. Dato' Ir. Mohd Azmi bin Ismail	Ir. Ng Yong Kong			
	Ir. Dr. Mui Kai Yin	Y.Bhg. Dato' Ir. Noor Azmi bin Jaafar			
	Ir. Ting Chek Choon	Ir. Sukhairul Nizam bin Abdul Razak			
	Ir. Lai Sze Ching	Y.Bhg. Dato' Ir. Dr. Ahmad Anuar bin Othman			
	Ir. Dr. Chan Swee Huat	Ir. Ellias bin Saidin			
	Ir. Mohd Radzi bin Salleh	Dato' Ir. Hj. Anuar bin Yahya			
	Ir. Dr. Teo Fang Yenn	Ir. Prof. Dr. Jeffrey Chiang Choong Luin			
	Ir. Dr. Siti Hawa binti Hamzah	Ir. Prof. Dr. Tan Chee Fai			
	Ir. Mah Way Sheng	Ir. Prof. Dr. Zuhaina binti Zakaria			
	Ir. Lee Cheng Pay	Ir. Dr. Kannan a/I M. Munisamy			
	Ir. Dr. Siow Chun Lim	Ir. Wong Chee Fui			
	Ir. Dr. Hum Yan Chai	Ir. Tiong Ngo Pu			
Council Member by Invitation	Ir. Gopal Narian Kutty				
	Ir. Yam Teong Sian				
	Ir. Sundraraj A. Krishnasamy				
Women Engineers Representative	Ir. Rusnida binti Talib				
Young Engineers Representatives	Mr. Kuugan Thangarajoo				
	Mr. Lim Yiren				
	Mr. Naveen Kumar				
	Ms. Anis Akilah binti Ameer Ali				
	Mr. Muhd. Ashiq Marecan bin Hamid Marec	an			
Branch Representatives	Ir. Bernard Lim Kee Weng	(Penang Branch)			
	Ir. Wong Yee Foong	(Southern Branch)			
	Ir. Loh Ban Ho	(Perak Branch)			
	Ir. Ahmad Kamal bin Kunji	(Pahang Branch)			
	Y.Bhg. Dato' Ir. Wan Nazai bin Wan Jusoh	(Terengganu Branch)			
	Ir. Chong Chee Yen	(Negeri Sembilan Branch)			
	Ir. Puvanasvaran a/I Perumal	(Melaka Branch)			
	Ir. Janang Anak Bongsu	(Sarawak Branch)			
	Ir. Jeffrey Ng Vun Ping	(Sabah Branch)			
	Ir. Wong Siong Ung	(Miri Branch)			
	Ir. Mohamad Shaiful Ashrul bin Ishak	(Kedah-Perlis Branch)			
	Ir. Shaipuddin bin Shapii	(Kelantan Branch)			
	Chaipadain Sin Onapii	(aman Branon)			





THE INSTITUTION OF ENGINEERS, MALAYSIA

Lots 60 & 62, Jalan 52/4, P. O. Box 223, Jalan Sultan, 46720 Petaling Jaya Tel: 03-79684001 Fax: 03-79577678 e-mail: sec@iem.org.my

10 March 2022 Ref No: IEM22/HQ/082/AGM (w) CPD: 4

To all members of The Institution of Engineers, Malaysia

NOTICE OF 63rd ANNUAL GENERAL MEETING (VIRTUAL MEETING) SATURDAY, 16 APRIL 2022 at 9.00 am

In accordance with Section 7.5 of the Bylaws, notice is hereby given that the 63rd Annual General Meeting of The Institution of Engineers, Malaysia shall be held on **Saturday**, **16 April 2022** at **9.00 am**.

In order to adhere to the SOPs and the physical distancing requirements and also in consideration of the safety and health of our members, we would like to hereby announce that the 63rd Annual General Meeting will be conducted via virtual platform similar to the Annual General Meeting of 2021.

The AGENDA for the virtual Annual General Meeting is as follows:-

- 1. Welcome Address by the President for Session 2021/2022.
- 2. Confirmation of Minutes of the 62nd Annual General Meeting held on 17 April 2021.
- 3. Matters Arising.
- 4. Annual Report / Financial Statements for Session 2021/2022.
- 5. Discussion on written issues from members of which written notice is submitted to reach IEM Secretariat by 9 April 2022. Please note that no matters under this item shall be discussed, unless prior written notice is received by 9 April 2022. This is in accordance to the IEM Constitution & Bylaws.
- 6. Presentation of Results of Election for Council Session 2022/2023.
- 7. Presidential Address 2022/2023.

In order to cater for the virtual AGM, kindly be informed that the following SOPs are hereby instituted:

a) Annual Report

A soft copy of Annual Report will be sent to all members via email blast prior to the AGM. Members who wish to have a hard copy may collect from IEM HQ on a first come first served basis as only a small number would be printed so as to be cost efficient and minimize wastage;

b) Pre-Registration

As the AGM will be conducted via an online platform, members are required to <u>pre-register</u> to attend the AGM. A link to join the virtual meeting will be emailed to the registered member prior to the AGM date. Members can click on the link to join the meeting on the given date and time of the AGM.

c) Submission of Questions/Queries

Due to the limitation and constraints of the virtual platform, we may not be able to handle questions being posed on the spot during the AGM. Members are therefore requested to submit question(s)/queries <u>at least seven (7) days</u> before the AGM. Response, if deemed necessary, will be provided during the AGM.

d) Valid Contact Details for e-Voting

In view of the number of attendees at the AGM and the constraints of the online platform, any voting during the AGM will be conducted via IEM's e-voting module. As such, members are advised to ensure that your **mobile number in** the IEM database is valid and to perform first time log-in prior to the AGM. During the e-voting, a Security Code will be sent by SMS to your mobile phone for you to access the portal to cast your vote. Kindly update your latest contact details in the IEM web-portal.

Thank you for your kind attention.

Yours sincerely,

Ir. Assoc. Prof. Dr. David Chuah Joon Huang

Hon. Secretary





JAWATANKUASA KERJA (EXECUTIVE COMMITTEE OF COUNCIL)



Yang Dipertua

Ir. Ong Ching Loon

Timbalan Yang Dipertua

Ir. Prof. Dr. Norlida binti Buniyamin

Naib Yang Dipertua

Ir. Prof. Dr. Leong Wai Yie

Ir. Mohd Khir bin Muhammad

Ir. Prof. Dr. Ruslan bin Hassan

Ir. Yau Chau Fong

Ir. Mohd Aman bin Hj. Idris

Y.Bhg. Dato' Ir. Ahmad Murad bin Omar

Ir. Chen Harn Shean

Setiausaha Kehormat

Ir. Assoc. Prof. Dr. David Chuah Joon Huang

Bendahari Kehormat

Ir. Fam Yew Hin

Ahli-Ahli

Ir. Dr. Jeffrey Chiang Choong Luin

Ir. Prof. Dr. Tan Chee Fai

Ir. Dr. Bhuvendhraa Rudrusamy

Ir. Gunasagaran a/I Kristnan

Ir. Lai Sze Ching

Ir. Dr. Aidil bin Chee Tahir

Ir. Prof. Dr. Zuhaina binti Zakaria

Ir. Dr. Teo Fang Yenn



LEMBAGA TABUNG PENDIDIKAN IEM

(BOARD OF MANAGEMENT - IEM EDUCATION FUND)



Pengerusi

Ir. Ong Ching Loon

Timbalan Pengerusi

Ir. Prof. Dr. Norlida binti Buniyamin

Setiausaha Kehormat

Ir. Assoc. Prof. Dr. David Chuah Joon Huang

Bendahari Kehormat

Ir. Fam Yew Hin

Ahli-Ahli

Ir. Prof. Dr. Leong Wai Yie

Ir. Mohd Khir bin Muhammad

Ir. Prof. Dr. Ruslan bin Hassan

Ir. Yau Chau Fong

Ir. Mohd Aman bin Hj. Idris

Y.Bhg. Dato' Ir. Ahmad Murad bin Omar

Ir. Chen Harn Shean



LEMBAGA TABUNG BENEVOLENT

(BOARD OF MANAGEMENT - IEM BENEVOLENT FUND)



Tidak dilantik (No appointment)

Ex-Officio

Timbalan Yang Dipertua, IEM

Pengerusi, Jawantakuasa Tetap Kebajikan dan Hal Ehwal

Perkhidmatan

Setiausaha Kehormat, IEM Bendahari Kehormat, IEM



JURUAUDIT LUAR DAN JURUAUDIT DALAM KEHORMAT

(EXTERNAL AUDITORS AND HONORARY INTERNAL AUDITORS)



Juruaudit Luar CHI-LLTC Juruaudit Dalam Kehormat

Ir. Steven Toh Chin Kok

Ir. Sreedaran Raman





JAWATANKUASA TETAP

(STANDING COMMITTEES)



JAWATANKUASA TETAP KEWANGAN

(Standing Committee on Finance)

Pengerusi

Ir. Prof. Dr. Norlida binti Buniyamin

Naib Pengerusi

Ir. Assoc. Prof. Dr. David Chuah Joon Huang

Setiausaha

Ir. Fam Yew Hin

Ahli-Ahli

Ir. Chen Harn Shean

Ir. Prof. Dr. Jeffrey Chiang Choong Luin

Ir. S. Kumar a/I S. Subramaniam

Ir. Tiong Ngo Pu

Ir. Dr. Aidil bin Chee Tahir

Ir. Gunasagaran a/l Kristnan

Ir. Mah Siew Kien

Ir. Dr. Tan Yean Chin

Ir. Ting Chek Choon

Ir. Dr. Tan Kuang Leong

Ir. Sreedaran Raman

Ir. Dr. Chan Swee Huat

ir. Dr. Chong Chien Hwa

Ir. Dr. Hum Yan Chai

Ir. Dr. Kannan a/I M. Munisamy

Ir. Mah Way Sheng

Ir. Sukhairul Nizam Abdul Razak

JAWATANKUASA TETAP PEPERIKSAAN DAN KELAYAKAN

(Standing Committee on Examinations and Qualifications)

Pengerusi

Ir. Hj. Mohd Aman bin Haji Idris

Naib Pengerusi

Ir. Dr. Aidil bin Chee Tahir

Setiausaha

Ir. Muhammad Farris bin Khyasudeen

Ex-Officio

Ir. Assoc. Prof. Dr. David Chuah Joon Huang

Ahli-Ahli

Ir. Emeritus Prof. Dr. Zainal Abidin bin Ahmad

Ir. Fam Yew Hin

Ir. Dr. Tan Chee Fai

Ir. Tu Yong Eng

Ir. Mah Siew Kien

Ir. Ng Yong Kong

Ir. Dr. Mui Kai Yin

Ir. Prof. Ishak bin Abdul Rahman

Ir. Juares Rizal bin Abd. Hamid

Ir. Dr. Siti Hawa binti Hamzah

Ir. Dr. Hum Yan Chai

JAWATANKUASA TETAP KEMASUKAN DAN LATIHAN PRAKTIKAL

(Standing Committee on Admissions and Practical Training)

Pengerusi

Ir. Chen Harn Shean

Naib Pengerusi

Ir. Prof. Dr. Tan Chee Fai

Setiausaha

Ir. Dr. Hum Yan Chai

Ex-Officio

Ir. Assoc. Prof. Dr. David Chuah Joon Huang

Ahli-Ahli

Ir. Dr. Lee Yun Fook

Ir. Dr. Siow Chun Lim

Ir. Hj. Mohd Radzi bin Salleh

Ir. Hj. Mohamed Ali Yusoff

Ir. Gunasagaran a/l Kristnan

Ir. Dr. Ahmad Kamil bin Arshad

Ir. Dr. Aminuddin bin Mohd Baki

Ir. Li Thang Fai

Ir. Dr. Jayaseelan Nadarajah

Ir. Lim Kim Ten

Ir. Sundraraj a/l A.Krishnasamy

Ir. Mohd Azha bin Abu Samah

Ir. Dr. Aidil bin Chee Tahir

Ir. Dr. Mui Kai Yin

Ir. Dr. Chan Swee Huat

Ir. Dr. Lai Khin Wee

Ir. Dr. Ng Soon Ching

Ir. Yam Teong Sian

Ir. Yim Hon Wa

Ir. Yap Soon Hoe

Ir. Lee Cheng Pay

Ir. Tu Yong Eng

Ir. Ng Yong Kong

Ms. Ong Ye Shian, Grad. IEM (Wakil YES)

Ms. Anis Akilah binti Ameer Ali, Grad. IEM (Wakil YES)

JAWATANKUASA TETAP AMALAN PROFESIONAL

(Standing Committee on Professional Practice)

Pengerusi

Y.Bhg. Dato' Ir. Ahmad Murad bin Omar

Naib Pengerusi

Ir. Gunasagaran a/l Kristnan

Setiausaha

Ir. Ting Chek Choon

Ahli-Ahli

Y.Bhg. Dato' Paduka Ir. Dr. Keizrul Abdullah

Y.Bhg. Dato' Ir. Nor Hisham Mohd Ghazali

Y.Bhg. Dato' Ir. Mohd Azmi Ismail



- Ir. Dr. Chong Chien Hwa
- Ir. Wong Chee Fui
- Ir. Yam Teong Sian
- Ir. Arul Hisham bin Abdul Rahim
- Ir. Hj. Mohd Radzi bin Salleh
- Ir. Prof. Dr. Wan Mahmood bin Wan Abdul Majid
- Ir. Wan Norbadi bin Wan Nik
- Ir. Mohd Jamil bin Ali
- Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik
- Ir. Dr. Bhuvendhraa Rudrusamy
- Ir. Jeewa a/I Vengadalasam
- Ir. Francis Xavier Jacob
- Ir. Mohd Azha bin Abu Samah
- Ir. Sundraraj a/I A. Krishnasamy
- Ir. Gunasagaran a/l Kristnan
- Ir. Vincent Chen Kim Kieong
- Ir. Prof. Dr. Jeffrey Chiang Choong Luin
- Y.Bhg. Dato' Ir. Hj. Noor Azmi bin Jaafar
- Ir. Assoc. Prof. Hj. Shamil bin Abu Hassan
- Ir. Ting Chek Choon
- Ir. Prof. Dr. Zuhaina binti Zakaria
- Y.Bhg. Dato' Ir. Ahmad Murad bin Omar (Observer)
- Ir. Chen Harn Shean (Observer)
- Mr. Naveen Kumar a/I Apparao (Wakil YES)

JAWATANKUASA TETAP AKTIVITI

(Standing Committee on Activities)

Pengerusi

Ir. Yau Chau Fong

Naib Pengerusi

Ir. Dr. Teo Fang Yenn

Setiausaha

Ir. Sukhairul Nizam bin Abdul Razak

Ahli-Ahli

- Ir. Gunasagaran a/I Kristnan
- Ir. Ting Chek Choon
- Ir. Gopal Narian Kutty
- Ir. Francis Xavier Jacob
- Ir. Dr. Siow Chun Lim
- Ir. Lee Cheng Pay
- Ir. Vasan Mariappan (Wakil Pertanian dan Makanan)
- Ir. Cha Hoong Kum (Wakil Khidmat Bangunan)
- Ir. Dr. Teow Yeit Han (Wakil Kimia)
- Ir. Low Kai Wah (Wakil Awam dan Struktur)
- Ir. M. Ravindra (Wakil Perunding)
- Mr. Alex Looi Tink Huey, Grad. IEM (Wakil Elektrikal)
- Ir. Dr. Lee Choo Yong (Wakil Elektronik)
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(Wakil YES)





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(Sub Committee on "Street, Drainage And Building Act 1974 (Act 133) and Uniform Building Bylaws (Revised) 1984

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Y.Bhg. Dato' Kapten Ir. Haji Anuar Yahya (Rtd)

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Pengerusi

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AMALAN PROFESIONAL

Jawatankuasa Kecil Pengurusan Pemasalahan (Sub Committee on Dispute Avoidance and Resolution Practice)

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Ahli-Ahli

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Ir. Shanmugaraj CT Pillai

Ir. Ang Kok Keng

Ir. PE Chong (May - July 2021)

KEBAJIKAN DAN PERKHIDMATAN

Jawatankuasa Kecil Skim Insurans

(Sub Committee on Service Benefits/Insurance Scheme)

Pengerusi

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KEBAJIKAN DAN PERKHIDMATAN

Jawatankuasa Kecil "Pengurusan Dana Kebajikan" (Sub Committee on Benevolent Fund Management)

Pengerusi

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Jawatankuasa Kecil ENGINEER2022

(Sub Committee on ENGINEER2022)

Pengerusi

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(IEM – AFEO Local Co-ordinating Committee)

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Ir. Ong Ching Loon

Ir. Prof. Dr. Norlida binti Buniyamin

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Officers of International Secretariat

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(IEM representation on AFEO)

Wakil IEM

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Ir. Assoc. Prof. Dr. David Chuah Joon Huang (Setiausaha Kehormat)

Ir. Prof. Dr. Norlida binti Buniyamin (Wakil Pengganti Yang Dipertua)

Wakil IEM di jawatan AFEO

Ir. Mohd Khir bin Muhammad (Setiauasaha Agung AFEO)

Ir. Assoc. Prof. Dr. David Chuah Joon Huang (Bendahari Kehormat AFEO)

Ir. Yau Chau Fong (Ketua Suruhanjaya Pendaftaran AER) Y.Bhg. Dato' Ir. Lim Chow Hock (Penasihat AFEO)

Wakil IEM di jawatan YEAFEO

Mr. Kuugan Thangarajoo (Setiauasaha Agung YEAFEO)

Mr. Naveen Kumar (Wakil Pengganti IEM) wef 26/6/2021

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Jawatankuasa Kecil Skim "Jurutera Wargamas" (Sub Committee on "Jurutera Wargamas Scheme")

Pengerusi

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Nasional APEC Engineer/IntPE

(IEM Reviewers for IntPE/APEC Engineer National

Monitoring Committee)

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Ir. Chen Harn Shean

Ir. Prof. Megat Johari bin Megat Mohd Noor

Jawatankuasa Kecil IPEA/APEC Review (Sub Committee on IPEA/APEC Review)

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Naib Pengerusi

Ir. Hoo Choon Sean

Penasihat

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Ir. Dr. Bhuvendhraa Rudrusamy

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Profesional Antarabangsa

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Ir. Anuar bin Mohd Aris

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Ir. Prof. Dr. Leong Wai Yie

Ir. Prof. Dr. Tan Chee Fai

Ir. Mohd Aman bin Idris

Ir. Dr. Bhuvendhraa Rudrusamy



Wakil IEM di jawatan WE-AFEO

Ir. Rusnida binti Talib (Setiausaha Agung WE-AFEO) until 21/8/2021

Ir. Noorfaizah binti Hamzah (Setiausaha Agung WE-AFEO) w.e.f. 22/8/2021

Ir. Dr. Zahiraniza binti Mustaffa

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(IEM Contact Point for IntPE/APEC Engineers National Monitoring Committee for Agreement)

Wakil IEM

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Ir. Assoc. Prof. Dr. David Chuah Joon Huang

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(ASEAN Engineers Register Executive Committee)

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Ex-Officio

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Bendahari / Setiausaha

Ir. Tuan Hj. Mohamed Ali bin Yusoff

Ahli-Ahli

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Mr. Alex Looi Tink Huey

Ir. Dr. Siow Chun Lim

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Wakil IEM ke FEIAP

(IEM representation on FEIAP)

Bekas Yang Dipertua FEIAP

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Setiausaha Agung FEIAP

Ir. Dr. Tan Yean Chin

Ir. Dr. Teo Fang Yenn

Ir. Ng Yong Kong

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Ir. Prof. Megat Johari bin Megat Mohd Noor

Ir. Mohd Azha bin Abu Samah

Ir. Benny Lau Eng Kee

Ir. Arul Hisham bin Abdul Rahim

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Jawatankuasa Tempatan Pengawasan dan Ko-ordinasi Hal-Ehwal WFEO dan CEC

(IEM-WFEO/CEC Local Co-ordinating Committee)

Pengerusi

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Ahli-Ahli

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Wakil Luar Negeri/Overseas Representation

Wakil IEM ke WFEO/CEC

(IEM representation on WFEO/CEC)

Yang Dipertua sebagai Wakil IEM

Ir. Ong Ching Loon

Setiausaha Kehormat Wakil IEM

Ir. Assoc. Prof. Dr. David Chuah Joon Huang

Wakil IEM Pengganti

Ir. Prof. Dr. Norlida binti Buniyamin

Wakil IEM di APCChE

Ir. Prof. Dr. Dominic Foo Chwan Yee

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(IEM-FEIIC Local Co-ordinating Committee)

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Ahli-Ahli

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Wakil IEM

Ir. Mohd Khir bin Mohammad

Ir. Prof. Dr. Ruslan bin Hassan

Ir. Prof. Dr. Norlida binti Buniyamin



Wakil IEM

Ir. Ong Ching Loon

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Wakil IEM

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Ir. Prof. Dr. Norlida binti Buniyamin

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(Special Committee on Amendments to the IEM Constitution and Bylaws)

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Ir. Gopal Narian Kutty

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Dr. Ooi Beng Lee, Grad. IEM (Co-opted)

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Timbalan Pengerusi

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Setiausaha / Bendahari

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Penasihat

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Ahli-Ahl

Ir. Tajul Ariffin bin Mohamed Nori

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Dr. Sara Lee Kit Yee, Grad. IEM

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Timbalan Pengerusi

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Setiausaha / Bendahari

Ir. Sofia Johari

Penasihat

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Timbalan Pengerusi

Ir. Assoc. Prof. Edwin Goh Boon Hoe

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Ir. Foo Kam Fai

Penasihat

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Ir. Fong Chong Yit

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Setiausaha / Bendahari

Ir. Assoc. Prof. Dr. Nik Rosli bin Abdullah

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Mr. Dinesh Manoharan, Grad. IEM

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(Co-opted)

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Timbalan Pengerusi

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Ir. Muhamad Her bin Hj. Jantan

Penasihat

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Ahli-Ahli

Ir. Fadhli Shazlan bin Abdul Rahman

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Ir. Al-Khairi bin Mohd Daud

Ir. Juna Azleen bin Abdul Ghani

Ir. Nur Azhani binti Mohamad Rosli

Ir. Razmahwata bin Mohamad Razalli

Ir. Ahmad Rafidi Mohayiddin (Co-opted)

Ir. Look Keman Sahari (Co-opted)

Ir. Thamim Anser bin Habibullah Khan (Co-opted)

Ir. Mohd Azwira Mohd Azmi (Co-opted)

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Ir. Ghazali bin Safie (Observer)

Mr. Naveen Kumar a/l Apparao, Grad. IEM (Observer)

Ir. Danaraj a/l Chandrasegaran (Observer)

Ir. Azizul Azuan bin Sahrum @ Md. Daud (Observer)



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Timbalan Pengerusi

Ir. Dr. Dhakshyani Ratnadurai

Setiausaha

Ir. Yong Hong Lee

Penasihat

Ir. Prof. Dr. Mohamed Tharig bin Haji Hameed Sultan

Ahli-Ahli

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Ir. Dr. Shahruddin bin Muslimin

Ir. Sukhairul Nizam bin Abdul Razak

Ir. Dr. Lohgheswary a/p Nagarethinam

Ir. Zainon Sharmila Shamsuddin

Ir. Ainon Shakila Shamsuddin

Ir. Mathan Sambu (Co-opted)

Ir. Dr. Baljit Singh (Co-opted)

Ir. Assoc. Prof. Dr. Jeevan a/l Kanesan @ Ganeshamorty,

Grad. IEM (Co-opted)

Mr. Nagentrau a/I Muniandy, Grad. IEM (Co-opted)

Ir. Kumaresan Magaswaran, Grad. IEM (Co-opted)

Ir. Assoc. Prof. Dr. Saiddi Ali Firdaus bin Mohamed Ishak

(Observer)

BAHAGIAN TEKNIK KEJURUTERAAN PENGURUSAN PROJEK

(Project Management Technical Division)

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Timbalan Pengerusi

Ir. Dr. Harris bin Abd Rahman Sabri

Setiausaha / Bendahari

Ir. Assoc. Prof. Dr. Syuhaida Ismail

Penasihat

Ir. Vincent Wong Khien Ngie

Ahli-Ahli

Ms. Ainarull Assikin binti Abdul Hadi, Grad. IEM

Ir. Noor Iziddin Abdullah bin Ghazali

Ir. Faizal Abdullah Sanusi

Ir. Wan Rizaluddin Abdullah bin Wan Ali

Mr. Chitdrakantan a/I Subramaniam, Grad. IEM

Ir. Dr. Zarabizan bin Zakaria

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Assoc. Prof. Dr. Abdul Rahman bin Abdul Rahim, Grad. IEM

(Co-opted)

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IEM OUTSIDE BODIES REPRESENTATION (OBR) MASTER LISTS 2021 (1 JANUARY 2021 - 31 DECEMBER 2021) FOR IEM ANNUAL REPORT 2021



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
(1) Balai ikhtisas Malaysia (BIM) / Malaysian Professional Centre							
ngs:		02/02/2021 5.00 pm	Zoom Online Meeting	Ir. Gunasagaran a/l Kristnan	1/1	Excomm	
	The Board of Management Meeting (2) 2020/2021 (BOM)			Ir. Ng. Yong Khong	1/1	Excomm	
		·	_	Ir. Dr. Bhuvendhraa Rudrusamy	1/1	Excomm	
Dialogue / Meetings:	The Special Board of	28/04/2021 5.00 pm	Zoom Online Meeting	Ir. Gunasagaran a/l Kristnan	1/1	Excomm	
dne '	Management Meeting 2020/2021 (BOM)			Ir. Ng. Yong Khong	1/1	Excomm	
Dialo	(BOW)			Ir. Dr. Bhuvendhraa Rudrusamy	1/1	Excomm	
		15/07/2021	Zoom Online	Ir. Gunasagaran a/l Kristnan	1/1	Excomm	
	The Annual 48th General Meeting	2.30 pm	Meeting	Ir. Dr. Bhuvendhraa Rudrusamy	1/1	Excomm	
	Discussion on Letter of Appeal to MITI - PROFESSIONALS TO	05/07/2021	Zoom Online	Ir. Gunasagaran a/l Kristnan	1/1	Excomm	
	OPERATE DURING THE MCO	10.00 am	Meeting	Ir. Dr. Bhuvendhraa Rudrusamy	1/1	Excomm	
(2) CIDB Ma	alaysia						
	Mesyuarat Jawatankuasa Teknikal Pembangunan Standard Industri Pembinaan (CIS 22 & 23) Bil. 2	26/02/2021 3.00 - 5.00 pm	Zoom Online	Ir. Lee Kee Bau	1/1	CSETD	
	Mesyuarat Jawatankuasa Teknikal Pembangunan Standard Industri Pembinaan (CIS 22 & 23) Bil. 3	18/03 - 19/03/2021 9.00 am - 5.00 pm	Tingkat 9, Bilik Emerald, Sunway Putra Hotel, Kuala Lumpur	Ir. Lee Kee Bau	1/1	CSETD	
	Mesyuarat Jawatankuasa Teknikal Pembangunan Standard Industri Pembinaan (CIS 22 & 23) Bil. 4	16/08/2021 10.00 am - 1.30 pm	Zoom Online	Ir. Lee Kee Bau	1/1	CSETD	
	Mesyuarat Technical Committee Standard Industri Pembinaan (CIS XX: Elevated Construction Works-Falling Object Prevention)	25/02/2021 9.00 am - 12.00 pm	Webex Online	Ir. Gunasagaran a/l Kristnan	1/1	CSETD	
ie / Meetings:	Mesyuarat Technical Committee Standard Industri Pembinaan (CIS XX: Elevated Construction Works-Falling Object Prevention) Part 2	09/03/2021 2.30 - 5.00 pm	Bilik Diamond, Tingkat 23, Sunway Putra Tower	Ir. Gunasagaran a/I Kristnan	1/1	CSETD	
Dialogue / N	Mesyuarat Technical Committee bagi CIS 28: Elevated Construction Works - Prevention of Falling Objects and Road User's Safety Nearby Construction Site	25/03/2021 9.00 am - 5.00 pm	Bilik Seminar, CIDB MyBIM Centre, Tingkat 11, Sunway Putra Tower, Kuala Lumpur	Ir. Gunasagaran a/I Kristnan	1/1	CSETD	
	Mesyuarat Technical Committee bagi CIS 28: Elevated Construction Works - Prevention of Falling Objects and Road User's Safety Nearby Construction Site	28/05/2021 9.00 am - 12.00 pm	Webex Online	Ir. Gunasagaran a/l Kristnan	1/1	CSETD	
	Jawatankuasa Teknikal Pembangunan Industri Pembinaan Negara (JPIPN-T) di bawah Majlis Pembangunan Industri Pembinaan Negara (MPIPN)	05/04/2021 10.00 am - 12.00 pm	Bilik Mesyuarat Lembaga, CIDB Malaysia, Tingkat 25, Menara Dato' Onn, Pusat Dagangan Dunia Kuala Lumpur	Ir. Jimmy Wan Yoon Hin	1/1	CSETD	
	Mesyuarat Jawatankuasa Teknikal Standard Industri Pembinaan CIS 20 Bil. 1/2021	30/09/2021 8.30 am - 12.00 pm	Webex Online	Ir. Chong Chew Fan	1/1	EETD	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
/ Lectures / Workshop:	1st Technical Workshop of Subject Matter Expert (SME) bagi Pembangunan CIS bagi Pengukuran Produktiviti Projek Pembinaan Bangunan	22/06/2021 9.30 - 11.30 am	Microsoft Teams	Ir. Hooi Wing Chuen	1/1	CSETD	
Conferences / Events / Forums / Lectures / Seminars / Talks / Trainings / Workshop:	The Workshop for The Development of Construction Industry Standard (CIS) for Productivity Measurement of Building Construction Projects (Group 2)	05/07/2021 9.30 am	Microsoft Teams	Ir. Hooi Wing Chuen	1/1	CSETD	
ences / E	Cadangan Kajian Baseline Pengukuran Tahap Produktiviti Professional Sektor Pembinaan	25/08/2021 10.30 - 11.30 am	Online	Ir. Hooi Wing Chuen	1/1	CSETD	
Confer	Sesi Bengkel Semakan Semula CIDB Standard Form of Contract (2000 Edition)	22/12 - 23/12/2021 9.00 am - 4.30 pm	Hotel DoubleTree by Hilton Putrajaya Lakeside	Ir. Hooi Wing Chuen	1/1	CSETD	
(3) Constru	ction Industry Development Board	d [CIDB] Malaysia					
Dialogue / Meetings:	Mesyuarat Jawatankuasa Semakan Semula CIDB Standard Form of Contract (2000 Edition) Bil. 1/2021	22/11/2021 2.30 - 4.00 pm	Bilik Mesyuarat Lembaga, CIDB Malaysia, Tingkat 25, Menara Dato Onn, Pusat Dagangan Dunia Kuala Lumpur	Ir. Hooi Wing Chuen	1/1	CSETD	
(4) Constru	ction Research Institute of Malays	sia (CREAM)					
Conferences/Events / Forums / Lectures / Seminars / Talks / Trainings / Workshop:	Jemputan Menghadiri Bengkel Validasi bagi Kajian Pembangunan Sistem Penilaian Bersepadu yang Melibatkan Skor Produktiviti, Skor IBS dan Skor Qlassic bagi Projek Perumahan	18/08/2021 10.00 am - 12.00 pm	Microsoft Teams	Ir. Gunasagaran a/l Kristnan	1/1	CSETD	
(5) Dewan I	Bandaraya Kuala Lumpur (DBKL)						
Dialogue / Meetings:	Kajian Awal Draf Pelan Tempatan Kuala Lumpur 2040 (PTKL 2040) - Sesi Maklumbalas Pihak Berkepentingan Focus Group Discussion (FGD)	25/02/2021 9.00 am - 12.00 pm	Google Meet	Dato' Paduka Ir. Prof. (Dr.) Keizrul bin Abdullah	1/1	Excomm	
(6) Departn	nent of Standards Malaysia (DSM)						
	Meeting on Working Group on Multilayer Pipes (WG/J/2-9) Bil. 1/2021	04/01/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Dr. Tan Chee Fai	1/1	BSTD	
	Meeting of Working Group on Polyethylene (PE) Pipes and Fittings (WG/J/2-1) Bil. 1/2021	09/02/2021 9.30 am - 2.00 pm	Zoom Meeting	Ir. Ung Ah Hock	1/1	BSTD	
	Meeting of Working Group on Polyethylene (PE) Pipes and Fittings (WG/J/2-1) Bil. 2/2021	09/03/2021 9.30 am - 2.00 pm	Microsoft Teams	Ir. Ung Ah Hock	1/1	BSTD	
	Meeting of Working Group on Polyethylene (PE) Pipes and Fittings (WG/J/2-1) Bil. 3/2021	12/04/2021 9.30 am - 1.00 pm	Microsoft Teams	Ir. Ung Ah Hock	1/1	BSTD	
Meetings	Meeting of Working Group on Polyethylene (PE) Pipes and Fittings (WG/J/2-1) Bil. 4/2021	18/05/2021 9.30 am - 1.00 pm	Microsoft Teams	Ir. Ung Ah Hock	1/1	BSTD	
Dialogue / Meetings:	Meeting of Working Group on Polyethylene (PE) Pipes and Fittings (WG/J/2-1) Bil. 5/2021	17/06/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Gary Lim Eng Hwa	1/1	BSTD	
ā	Meeting of Working Group on Polyethylene (PE) Pipes and Fittings (WG/J/2-1) Bil. 7/2021	26/08/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Gary Lim Eng Hwa	1/1	BSTD	
	Meeting of Working Group on Polyethylene (PE) Pipes and Fittings (WG/J/2-1) Bil.10/2021	23/11/2021 2.00 - 5.00 pm	Zoom Meeting	Ir. Gary Lim Eng Hwa	1/1	BSTD	
	Meeting of Working Group on Polypropylene (PP) Pipes and Fittings (WG/J/2-7) Bil. 8/2021	28/09/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Gary Lim Eng Hwa	1/1	BSTD	
	Meeting of Working Group on Polypropylene (PP) Pipes and Fittings (WG/J/2-7) Bil. 9/2021	28/10/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Gary Lim Eng Hwa	1/1	BSTD	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
	Meeting of Working Group on Polypropylene (PP) Pipes and Fittings (WG/J/2-7) Bil. 10/2021	23/11/2021 2.00 - 5.00 pm	Zoom Meeting	Ir. Gary Lim Eng Hwa	1/1	BSTD	
	Joint Meeting on Technical Committee of Plastic Pipes and Fittings (TC/J/2) & Working Group on Multilayer Pipes (WG/J/2-9)	26/01/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Dr. Tan Chee Fai	1/1	BSTD	
	Joint Meeting on Technical Committee of Plastic Pipes and Fittings (TC/J/2) & Working Group on Multilayer Pipes (WG/J/2-9) Bil. 2/2021	20/04/2021 9.30 am	Zoom Meeting	Ir. Dr. Tan Chee Fai	1/1	BSTD	
	Meeting of Working Group on Code of Practice for Glass (WG/D/9-6) Bil. 1/2021	18/01/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Working Group on Code of Practice for Glass (WG/D/9-6) Bil. 2/2021	22/02/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Working Group on Code of Practice for Glass (WG/D/9-6) Bil. 3/2021	15/03/2021 10.00 am - 1.00 pm	Bilik mesyuarat Utama, Tingkat 3, Menara DBKL 3	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Working Group on Code of Practice for Glass (WG/D/9-6) Bil. 4/2021	29/03/2021 9.30 am - 5.30 pm	Bilik mesyuarat Utama, Tingkat 3, Menara DBKL 3	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Working Group on Code of Practice for Glass (WG/D/9-6) Bil. 7/2021	21/06/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Tu Yong Eng Ir. Yasotha Chetty	1/1 1/1	CSETD CSETD	
	Meeting of Working Group on Code of Practice for Glass (WG/D/9-6) Bil. 8/2021	16/08/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Tu Yong Eng Ir. Yasotha Chetty	1/1 1/1	CSETD CSETD	
	Meeting of Working Group on Code of Practice for Glass (WG/D/9-6) Bil. 9/2021	05/10/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
:: ::	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 1/2021	02/02/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
Dialogue / Meetings:	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 2/2021	09/03/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
gue / h	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 3/2021	27/04/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
Dialoç	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 4/2021	25/05/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 5/2021	29/06/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 6/2021	15/07/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 7/2021	05/08/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting of WG - Protection Relay Devices (WG/E/7-5) Bil. 9/2021	16/11/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting of Technical Committee on Mechanical Safety for Consumer Use (TC/F/24) Bil. 1/2021	08/02/2021 10.30 am - 1.00 pm	Zoom Meeting	Mr. Nor Azilan bin Jaafar	1/1	METD	
	Meeting of Technical Committee on Mechanical Safety for Consumer Use (TC/F/24) Bil. 2/2021	24/05/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Fam Yew Hin	1/1	METD	
	Meeting of Technical Committee on Mechanical Safety for	30/11/2021 2.30 - 5.30 pm	Zoom Meeting	Ir. Fam Yew Hin	1/1	METD	
	Consumer Use (TC/F/24) Bil. 3/2021			Mr. Nor Azilan bin Jaafar	1/1	METD	
	Meeting of Technical Committee on Fasteners and Screw Threads (TC/F/12) Bil. 1/2021	15/03/2021 9.30 am - 1.00 pm	Zoom Meeting	Dr. Lim Chin Seong	1/1	METD	
	Meeting of Technical Committee on Fasteners and Screw Threads (TC/F/12) Bil. 2/2021	25/05/2021 2.45 - 4.45 pm	Zoom Meeting	Dr. Lim Chin Seong	1/1	METD	postponed from 5.5.21
	Meeting of Technical Committee on Code of Practice for Medical Devices and Healthcare Facilities (TC/R/10) Bil. 1/2021	26/01/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Lim Kim Ten	1/1	METD	
	Meeting of Technical Committee on Code of Practice for Medical Devices and Healthcare Facilities (TC/R/10) Bil. 2/2021	09/02/2021 9.00 am	Zoom Meeting	Ir. Lim Kim Ten	1/1	METD	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
	Meeting of Technical Committee on Code of Practice for Medical Devices and Healthcare Facilities (TC/R/10) Bil. 3/2021	18/02/2021 9.30 am	Zoom Meeting	Ir. Lim Kim Ten	1/1	METD	
	Meeting of Technical Committee on Code of Practice for Medical Devices and Healthcare Facilities (TC/R/10) Bil. 4/2021	25/02/2021 2.30 pm	Zoom Meeting	Ir. Lim Kim Ten	1/1	METD	
	Meeting of Technical Committee on Code of Practice for Medical Devices and Healthcare Facilities (TC/R/10) Bil. 5/2021	26/04/2021 9.30 am	Zoom Meeting	Ir. Lim Kim Ten	1/1	METD	
	Meeting of Technical Committee of Passive Fire Protection System (TC/M/2) Bil. 1/2021	15/02/2021 2.30 - 5.00 pm	Zoom Meeting	Ir. Thin Choon Chai	1/1	FAB	
	Meeting of Technical Committee of Passive Fire Protection System (TC/M/2) Bil. 2/2021	15/03/2021 2.30 - 2.00 pm	Zoom Meeting	Ir. Tan Chew	1/1	FAB	
	Meeting of Technical Committee on Passive Fire Safety Design (NSC M/ TC 2) Bil. 3/2021	23/07/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Tan Chew Ir. Thin Choon Chai	1/1 1/1	FAB FAB	
	Meeting on Technical Committee on Wet Fire Protection System (TC/M/3) Bil. 1/2021	18/02/2021 2.30 - 5.00 pm	Zoom Meeting	Ir. Thin Choon Chai	1/1	FAB	
	Meeting on Technical Committee on Wet Fire Protection System (TC/M/3) Bil. 2/2021	18/03/2021 2.30 - 5.00 pm	Zoom Meeting	Ir. Thin Choon Chai	1/1	FAB	
	Meeting on Technical Committee on Wet Fire Protection System (TC/M/3) Bil. 3/2021	30/04/2021 9.30 am - 12.15 pm	Zoom Meeting	Ir. Thin Choon Chai	1/1	FAB	
	Meeting of Technical Committee of Fire Properties of Building Material (TC/M/6) Bil. 1/2021	11/03/2021 2.30 - 5.00 pm	Zoom Meeting	Ir. Tan Chew	1/1	FAB	
etings:	Meeting of Technical Committee of Fire Properties of Building Material (TC/M/6) Bil. 2/2021	03/06/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Loo Chee Kin	1/1	FAB	
Dialogue / Meetings:	Meeting of Working Group on Fire Rated Lift Landing Door (NSC M/ TC 6/ WG 1) Bil.1/2021	25/06/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Loo Chee Kin	1/1	FAB	
Dialo	Meeting of Working Group on Fire Rated Lift Landing Door (NSC M/ TC 6/ WG 1) Bil.2/2021	03/09/2021 9.30 am - 12.15 pm	Zoom Meeting	Ir. Loo Chee Kin	1/1	FAB	
	Mesyuarat Ringkas Technical Committee on Fire Properties of Building Material (NSC M/TC 6) Berkenaan Undian (Ballots) Bagi ISO/TC_92/SC_2 Fire containment	13/08/2021 11.00 am	Zoom Meeting	Ir. Loo Chee Kin	1/1	FAB	
	Meeting on Working Group on Actions During Execution No. 1/2021	03/02/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Dr. Kwong Kok Zee	1/1	CSETD	
	Meeting on Technical Committee on Pipeline Transportation (TC/H/7) Bil. 1/2021	18/02/2021 10.30 am - 12.00 pm	Microsoft Teams	Ir. Sylvia Presenna a/p Samuel Inbaraj	0/1	CETD	
	Meeting on Technical Committee on Lighting, Lamps and Accessories (TC/S/3) Bil. 1/2021	02/03/2021 9.30 am	Zoom Meeting	Ir. Lim Kim Ten	0/1	EETD	
	Meeting on Technical Committee on Lighting, Lamps and Accessories (TC/S/3) Bil. 2/2021	15/04/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Lim Kim Ten	0/1	EETD	
	Meeting on Technical Committee on Lighting, Lamps and Accessories (TC/S/3) Bil. 3/2021	17/06/2021 9.30 am	Zoom Meeting	Ir. Lim Kim Ten	0/1	EETD	
	Meeting on Technical Committee on Lighting, Lamps and Accessories (TC/S/3) Bil. 4/2021	18/06/2021 9.30 am	Zoom Meeting	Ir. Lim Kim Ten	0/1	EETD	
	Meeting on Technical Committee on Lighting, Lamps and Accessories (TC/S/3) Bil. 5/2021	29/11/2021 9.30 am	Zoom Meeting	Ir. Lim Kim Ten	1/1	EETD	
	Meeting of Technical Committee on Smart Manufacturing (TC/S/15) Bil. 1/2021	22/03/2021 2.30 - 5.00 pm	Zoom Meeting	Ir. Dr. Tan Chee Fai	0/1	CESIG	
	Meeting of Working Group on UHPFRC Structures (WG/D/21-8) BIL. 1/2021	21/10/2021 2.30 - 4.30 pm	Zoom Meeting	Ir. Dr. Kwong Kok Zee	1/1	CSETD	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
	Meeting of Working Group on UHPFRC Structures (WG/D/21-8) BIL. 2/2021	30/11/2021 2.30 - 4.30 pm	Zoom Meeting	Ir. Dr. Kwong Kok Zee	1/1	CSETD	
	Meeting of Jawatankuasa Kebangsaan Standard NSC D - Building, Construction and Civil Engineering Bil. 1/2021	16/03/2021 10.00 m - 1.00 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Jawatankuasa Kebangsaan Standard NSC D - Building, Construction and Civil Engineering Bil. 2/2021	01/11/2021 2.30 - 4.30 pm	InterContinental Kuala Lumpur	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Technical Committee on Lightning Protection (TC/E/13) Bil. 1/2021	16/03/2021 2.30 - 5.00 pm	Zoom Meeting	Ir. Lim Kim Ten	0/1	EETD	
	Meeting on Working Group of Road Lighting (WG/S/3-3) Bil. 1/2021	24/03/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting on Working Group of Road Lighting (WG/S/3-3) Bil. 3/2021	24/06/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting on Working Group of Road Lighting (WG/S/3-3) Bil. 5/2021	26/08/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting on Working Group of Road Lighting (WG/S/3-3) Bil. 6/2021	30/09/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting on Working Group of Road Lighting (WG/S/3-3) Bil. 7/2021	15/11/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Chong Chew Fan	1/1	EETD	
	Meeting of Working Group on Cables (WG/E/15-1) Bil. 1/2021	22/03/2021 9.30 am	Zoom Meeting	Mr. Chan Chi Yen	1/1	EETD	
	Meeting of Working Group on Cables (WG/E/15-1) Bil. 3/2021	03/08/2021 9.30 am	Zoom Meeting	Mr. Chan Chi Yen	1/1	EETD	
ngs:	Meeting of Working Group on Cables (WG/E/15-1) Bil. 4/2021	12/10/2021 9.30 am	Zoom Meeting	Mr. Chan Chi Yen	1/1	EETD	
Meeti	Meeting of Working Group on Cables (WG/E/15-1) Bil. 5/2021	18/11/2021 9.30 am	Zoom Meeting	Mr. Chan Chi Yen	1/1	EETD	
Dialogue / Meetings:	Meeting of Working Group on Fire Detection and Fire Alarm Systems (WG/M/1-2) Bil. 1/2021	29/03/2021 9.30 am - 12.00 pm	Microsoft Teams	Ir. Lim Kim Ten	1/1	FAB	
ā	Meeting of Working Group on Guidelines for Fire Detection and Fire Alarm System (NSC M/ TC 1/ WG 1-2) Bil.3/2021	29/07/2021 10.00 am - 12.30 pm	Zoom Meeting	Ir. Loo Chee Kin	1/1	FAB	
	Meeting of Electrical Installation, Protection and Insulation Practice (TC/E/14) Bil. 1/2021	14/04/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Lim Kim Ten	0/1	EETD	
	Meeting of Working Group on Smoke and Heat Control Systems (WG/M/4-3) Bil. 1/2021	08/04/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Tan Chew	1/1	FAB	
	Working Group on Smoke and Heat Control Systems (NSC M/ TC 4/WG 4-3) Bil. 2/2021	21/07/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Yim Hon Wa	1/1	FAB	
	Working Group on Smoke and Heat Control Systems (NSC M/ TC 4/WG 4-3) Bil. 3/2021	06/10/2021 9.30 am - 12.15 pm	Zoom Meeting	Ir. Yim Hon Wa	1/1	FAB	
	Meeting of Technical Committee on Cement (TC/D/25) Bil. 1/2021	22/04/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Hooi Wing Chuen	1/1	CSETD	
	Meeting of Technical Committee on Cement (TC/D/25) Bil. 3/2021	24/06/2021 10.00 am - 1.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting of Technical Committee on Cement (TC/D/25) Bil. 4/2021	06/08/2021 9.30 am - 12.30 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting of Technical Committee on Bricks and Blocks (TC/D/13) - BIL.1/2021	04/06/2021 10.00 am - 1.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting of Technical Committee on Bricks and Blocks (TC/D/13) - BIL.2/2021	22/07/2021 10.00 am - 1.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting of Technical Committee on Bricks and Blocks (TC/D/13) - BIL.3/2021	07/10/2021 10.00 am - 1.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting of Technical Committee on Bricks and Blocks (TC/D/13) - BIL.4/2021	26/11/2021 9.30 am - 12.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
	TC/D/13:Drafting Committee: Penyediaan Draft MS EN 1338:XXXX Bil. 2/2021	24/08/2021 10.00 am - 12.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	TC/D/13:Drafting Committee: Penyediaan Draft MS EN 1338:XXXX Bil. 3/2021	02/09/2021 10.00 am - 12.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting of Working Group on Metal Equipment for Falsework and Propping (WG/D/4-5) Bil. 4/2021	29/07/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Working Group on Metal Equipment for Falsework and Propping (WG/D/4-5) Bil. 5/2021	25/08/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Working Group on Metal Equipment for Falsework and Propping (WG/D/4-5) Bil. 6/2021	29/09/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
	Meeting of Working Group on Metal Equipment for Falsework and Propping (WG/D/4-5) Bil. 7/2021	10/11/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Tu Yong Eng	1/1	CSETD	
	Mesyuarat International Electrotechnical Commission System of Conformity Assessment Schemes for Electrotechnical Equipment and Components Certification Management Committee (IECEE CMC)	01/06 - 03/06/2021 TBA	Online	Ir. Lee Cheng Pay	1/1	EETD	
	Meeting of Technical Committee on Engineering Rubber Products (TC/N/7) Bil. 1/2021	04/05/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Dr. Lee Tin Sin	1/1	CETD	
Aeetings:	Meeting of Working Group on Gaseous Fire-Extinguishing Systems (NSC M/TC 5/WG 5-3) BIL.1/2021	11/05/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Cha Hoong Kum	1/1	FAB	
Dialogue / Meetings:	Meeting of Working Group on Gaseous Fire-Extinguishing Systems (NSC M/TC 5/WG 5-3) BIL.2/2021	27/08/2021 9.30 am - 12.30 pm	Zoom Meeting	Ir. Cha Hoong Kum	1/1	FAB	
	Meeting of Working Group on Gaseous Fire-Extinguishing Systems (NSC M/TC 5/WG 5-3) BIL.3/2021	09/12/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Cha Hoong Kum	1/1	FAB	
	Meeting on Working Group on Masonry Cement (WG/D/25-2) Bil .2/2021	15/07/2021 10.00 - 11.00 am	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting on Working Group on Masonry Cement (WG/D/25-2) Bil .3/2021	13/08/2021 10.00 am - 1.00 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting on Working Group on Masonry Cement (WG/D/25-2) Bil. 4/2021	15/09/2021 10.30 am - 12.30 pm	Zoom Meeting	Dr. Sudharshan Naidu	1/1	CSETD	
	Meeting of Working Group on Action during Execution – WG/D/21-4 Bil.3/2021	04/08/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Dr. Kwong Kok Zee	0/1	CSETD	
	Meeting of Technical Committee on Aluminium Products (TC/D/5) Bil. 5/2021	13/08/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Lum Peng Fatt	0/1	CSETD	
	Meeting of Technical Committee on Code of Practice for Design of Concrete Structure (TC/D/21) Bil.3/2021	23/08/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Dr. Kwong Kok Zee	1/1	CSETD	
	Meeting of Technical Committee On Mechanical Testing Of Metallic Materials (TC/P/8) Bil. 1/2021	23/09/2021 9.30 am	Zoom Meeting	Dr. Lim Chin Seong Ir. Tan Chew	1/1	METD FAB	
	Meeting of Working Group on Industrial Networks (WG/S/0-5) Bil. 3/2021	14/10/2021 9.30 am	Zoom Meeting	Ir. Gan Tian Eng	1/1	EETD	
	Meeting of Working Group on Industrial Networks (WG/S/0-5) Bil. 4/2021	25/11/2021 9.30 am	Zoom Meeting	Ir. Gan Tian Eng	1/1	EETD	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
	Meeting of International Electrotechnical Commission System for Certification to Standards Relating to Equipment for use in Explosive Atmospheres (IECEx) Management Committee (ExMC)	02/09 - 03/9/2021 8.00 am - 12.00 pm	Online	Ir. Loo Chee Kin	1/1	METD	
	Mesyuarat Ringkas Technical Committee on Wet Fire Protection System (NSC M/ TC 3) Berkenaan Pengundian (Ballot) Berkaitan ISO/TC_21/SC_5 Fixed Firefighting Systems Using Water	13/08/2021 9.30 am	Zoom Meeting	Ir. Wong See Foong Ir. Thin Choon Chai	1/1	FAB	
	Mesyuarat Dalam Talian International Electrotechnical Commission / Sub Committee - Emc - Low Frequency Phenomena (IEC/SC 77A) (TC/E/4)	05/10/2021 8.00 - 11.00 pm	Online	Ir. Ng. Win Siau	1/1	EETD	
	National Standard Committee on Plastics and Plastic Products (NSC J) Bil. 1/2021	13/07/2021 9.30 am - 12.00 pm	Zoom Meeting	Ir. Dr. Tan Chee Fai	1/1	BSTD	
	National Standards Committee on Metallic Materials and Semi- Finished Products (NSC P) Bil. 1/2021	26/08/2021 10.00 am - 1.00 pm	Zoom Meeting	Ir. Lee Kee Bau	1/1	CSETD	
	National Standard Committee on Fire Safety (NSC M) BIL.1/2021	02/07/2021 10.00 am - 12.00 pm	Zoom Meeting	Ir. Thin Choon Chai	1/1	FAB	
etings:	Mesyuarat Jawatankuasa Standard Kebangsaan bagi Kejuruteraan Mekanikal (NSC F) Bil.1/2021	13/10/2021 9.30 am - 1.00 pm	Zoom Meeting	Ir. Luk Chau Beng	0/1	METD	
Dialogue / Meetings:	Pre-delegation Meeting for the 5th ISO/TC 210/WG 7 Good Engineering Maintenance Management	27/10/2021 2.00 - 4.00 pm	Zoom Meeting	Ir. Lim Kim Ten	0/1	EETD	
ā	NSC G: Mesyuarat Plenari ISO/ IEC JTC 1	08/11 - 15/11/2021 9.00 am - 5.00 pm	Zoom Meeting	Ir. Yasser Asrul bin Ahmad	0/1	ICTSIG	
	Jemputan Mesyuarat Pra - Delegasi ISO/IEC JTC 1 BIL. 2/2021	05/11/2021 10.00 am	Zoom Meeting	Ir. Yasser Asrul bin Ahmad	0/1	ICTSIG	
	Mesyuarat Jawatankuasa Standard Kebangsaan Berkenaan Information Technology, communication and Multimedia (NSC G) BIL. 1/2021	24/11/2021 10.00 am	Zoom Meeting	Ir. Yasser Asrul bin Ahmad	1/1	ICTSIG	
	Mesyuarat Jawatankuasa Standard Kebangsaan Berkenaan Information Technology, communication and Multimedia (NSC G) BIL. 2/2021	23/12/2021 10.00 am	Zoom Meeting	Ir. Yasser Asrul bin Ahmad	1/1	ICTSIG	
	Mesyuarat Antarabangsa ISO Berkaitan Keselamatan Kebakaran sebagai Observer- Member (O-Member) - TC on ISO/TC_92/SC_4 Fire Safety Engineering	24/11/2021 9.00 am	Zoom Meeting	Ir. Thin Choon Chai	1/1	FAB	
	Mesyuarat Pra-Perwakilan bagi Persediaan Mesyuarat Antarabangsa ISO Berkaitan Keselamatan Kebakaran	16/11/2021 10.00 - 10.30 am	Zoom Meeting	Ir. Thin Choon Chai	1/1	FAB	
	Mesyuarat Jawatankuasa Standard Kebangsaan Berkenaan Generation, Transmission and Distribution of Energy (NSC E) Bil. 1/2021	07/12/2021 2.30 - 5.00 pm	Zoom Meeting	Dato' Ir. Ibrahim bin Abu Bakar	1/1	EETD	
Conferences/Events / Forums / Lectures / Seminars / Talks / Trainings / Workshop:	International Workshop on Renewable Energy and Storage Devices for Sustainable Development (IWRESD-2021) - TC/E/8	12/01 - 14/01/2021 12.00 - 8.00 pm	Online	Ir. Chong Chew Fan	1/1	EETD	
Conferer / Forums / Semina Trainings	WG/D/9-6: Jemputan Menghadiri Bengkel Pembangunan Standard di Bawah WG Code of Practice for Glass (NSC D/TC 9/WG 6)	02/11 - 03/11/2021 9.00 am - 5.00 pm	InterContinental Kuala Lumpur	Ir. Tu Yong Eng	1/1	CSETD	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks	
(7) IKRAM QA Services Sdn. Bhd.								
Dialogue / Meetings:	Mesyuarat Jawatankuasa Penasihat Pensijilan (CAC) 1/2021	25/02/2021 10.00 am - 12.30 pm	Google Meets	Ir. Lai Sze Ching	1/1	PPC		
(8) Jabataı	(8) Jabatan Bomba & Penyelamat Malaysia / Fire and Rescue Department Malaysia							
	Penyelarasan Kursus Keselamatan Kebakaran bagi Principal Submitting Person (PSP) dan Submitting Person (SP)	23/02/2021 9.30 am	Bilik Mesyuarat Galeria, Aras Bawah, Ibu Pejabat JBPM, Lebuh Wawasan, Presint 7, Putarajaya	Ir. Alan Chan Teck Wai	1/1	FAB		
Dialogue / Meetings:	Mesyuarat Membincangkan Modul Fire Safety Training	11/03/2021 9.30 am	Bilik Mawar, Tingkat 1, Bahagian Keselamatan Kebakaran, Ibu Pejabat, JBPM, Putrajaya.	Ir. Alan Chan Teck Wai	1/1	FAB		
Dial	Mesyuarat dan Taklimat Draf Akhir Pindaan Undang-Undang Kecil Bangunan Seragam (UBBL 1984) bersama Bahagian Undang-Undang, Kementerian Perumahan dan Kerajaan Tempatan	08/04/2021 9.00 am - 5.00 pm	G Hotel Gurney, 168A Persiaran Gurney, 10250 Penang.	Ir. Alan Chan Teck Wai	1/1	FAB		
(9) Jabataı	n Bomba & Penyelamat Malaysia K	uala Lumpur						
				Ir. Yim Hon Wa	1/1	FAB		
ngs:	Mesyuarat Dialog Bersama Professional Bil. 1/2021 Jabatan	06/08/2021		Ir. Tan Chew	1/1	FAB		
leetii	Bomba dan Penyelamat Malaysia Kuala Lumpur	10.00 am	Google Meet	Ir. Loo Chee Kin	1/1	FAB		
Dialogue / Meetings:	Ruaia Eumpui			Ir. Gary Lim Eng Hwa	1/1	FAB		
alogı	Mesyuarat Dialog Bersama		Bilik Mesyuarat	Ir. Loo Chee Kin	1/1	FAB		
Ī	Professional Bil. 2/2021 Jabatan Bomba dan Penyelamat Malaysia Kuala Lumpur	17/12/2021 10.00 am	Nilam, JBPM Kuala Lumpur	Ir. Alan Chan Teck Wai	1/1	FAB		
(10) Jabata	an Kerja Raya Malaysia							
Dialogue / Meetings:	Technical Working Group (TWG) Pembentangan Draf Akhir: Garis Panduan Memproses Permohonan Pembangunan Tepi Jalan	25/05/2021 8.00 am - 5.00 pm	Dewan Tan Sri mahfoz Khalid, Kementerian Kerja Raya, Jalan Sultan Salahuddin, 50580 Kuala Lumpur	Ir. Richard Wong Chuen Fun	1/1	HTETD		
(11) Keme	nterian Pengangkutan Malaysia (Kl	PM) / Ministry of Trans	sport Malaysia (MOT)					
Conferences/Events / Forums / Lectures / Seminars / Talks / Trainings / Workshop:	Jemputan Bengkel Pembangunan	23/02/2021	Online	Ir. Assoc. Prof. Dr. Khoo Hooi Ling	1/1	HTETD		
Conferences/Events / Forums / Lectures / Seminars / Talks / Trainings / Workshop	Pelan Keselamatan Jalan Raya Malaysia 2021-2030 Siri II	9.00 - 11.00 am	Online	Ir. Assoc. Prof. Edwin Goh Boon Hoe	1/1	HTETD		
(12) Keme	nterian Tenaga dan Sumber Asli (K	ETSA)						
Dialogue / Meetings:	Mesyuarat Jawatankuasa Teknikal Penggubalan Akta Kecekapan dan Konservasi Tenaga serta Peraturan- Peraturan Dibawahnya (EECA) Bil. 1/2021	15/11/2021 9.30 am - 12.00 pm	Zoom Online	Ir. Francis Xavier Jacob	1/1	EETD		
(13) Keme	nterian Perumahan dan Kerajaan T	empatan (KPKT)						
Dialogue / Meetings:	Mesyuarat Penyelarasan Bersama-sama Lembaga dan Pertubuhan Professional berkaitan OSC 3.0 PLUS	06/07/2021 9.30 am - 1.00 pm	Zoom Meeting Online	Ir. Gunasagaran a/l Kristnan	1/1	PPC		
(14) Malay	sia Green Building Confederation (MalaysiaGBC)						
Dialogue / Meetings:	6th e-Extraordinary General Meeting (e-EGM)	24/04/2021 10.00 am	Online	Ir. Yau Chau Fong	1/1	Activities		
Diale	12th e-AGM 2021 of MalaysiaGBC	29/05/2021 10.00 am	Zoom Online	Ir. Yau Chau Fong	1/1	Activities		



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
(15) Malays	ia Productivity Corporation (MPC)						
	PEMUDAH's Technical Working Group on Getting Electricity (TWGGE) No. 1/2021	17/03/2021 9.30 - 11.00 am	Microsoft Teams	Ir. Chong Chew Fan	1/1	EETD	
	PEMUDAH's Technical Working Group on Getting Electricity (TWGGE) No. 2/2021	16/06/2021 10.00 - 11.30 am	Microsoft Teams	Ir. Chong Chew Fan	1/1	EETD	
ngs:	PEMUDAH's Technical Working Group on Getting Electricity (TWGGE) No. 3/2021	08/11/2021 2.30 - 4.00 pm	Microsoft Teams	Ir. Chong Chew Fan	1/1	EETD	
Meetii	PEMUDAH's TWGDCP Virtual Meeting No.3/2021	21/09/2021 2.30 - 5.00 pm	Zoom Meeting	Ir. Gunasagaran a/l Kristnan			
Dialogue / Meetings:	Jemputan Sesi Teh Tarik Isu Perolehan Kerajaan dan MyMudah bersama Ahli TWGCG	02/04/2021 10.00 am	Microsoft Teams	Ir. Gunasagaran a/l Kristnan	1/1	Excomm	
Ö	Jemputan Perbincangan Isu Double Contribution to HRDF Funds	23/04/2021 10.00 - 11.30 am	Microsoft Teams	Ir. Gunasagaran a/l Kristnan	1/1	Excomm	
	Jemputan Perbincangan Cabaran dan Cadangan Penambahbaikan Akta Langkah-Langkah Sementara bagi Mengurangkan Kesan Penyakit Koronavirus 2019 (COVID-19) 2020 Akta 829]	19/11/2021 10.00 - 11.00 am	Microsoft Teams	Ir. Gunasagaran a/I Kristnan	1/1	Excomm	
(16) Malays	ian Service Providers Confederati	on (MSPC)					
Dialogue / Meetings:	The 38th General Council Meeting of MSPC	22/10/2021 5.00 pm	Zoom Meeting	Ir. Dr. David Chuah Joon Huang	1/1	Excomm	
(17) Pejaba	t Setiausaha Kerajaan Negeri Sela	ngor, Bahagian Unit I	Pengurusan Bencana	Negeri Selangor			
Dialogue / Meetings:	Mesyuarat Pengurusan Dan Bantuan Bencana Serta Musim Monsun Timur Laut Peringkat Negeri Selangor Bilangan 1/2021	06/09/2021 2.30 pm	Microsoft Teams	En. Azahari Rejab	1/1	DRRAB	
(18) Real E	state and Housing Developers' As	sociation Malaysia (R	EHDA)				
tings:	Focus Group on the Installation of Lightning Protection System	04/05/2021 3.00 pm	Zoom Meeting	Ir. Dr. Siow Chun Lim	1/1	EETD	
Dialogue / Meetings:	Focus Group on the Installation of Lightning Protection System 2/2021	02/07/2021 10.00 am	Zoom Meeting	Ir. Lee Cheng Pay	1/1	EETD	
Dialog	Focus Group on the Installation of Lightning Protection System 3/2021	15/09/2021 10.00 am	Zoom Meeting	Ir. Dr. Siow Chun Lim	0/1	EETD	
(19) Suruha	anjaya Perkhidmatan Air Negara (S	PAN)					
tings:	Mesyuarat Jawatankuasa Penilaian Utama (JAKPEN UTAMA) Bil. 1/2021	14/01/2021 2.30 - 5.30 pm	Microsoft Teams Meeting (Online meeting)	Ir. Ellias bin Saidin	1/1	WRTD	
Dialogue / Meetings:	Mesyuarat Jawatankuasa Penilaian Utama (JAKPEN UTAMA) Bil. 2/2021	16/03/2021 9.30 am - 12.00 pm	Microsoft Teams Meeting (Online meeting)	Ir. Ellias bin Saidin	0/1	WRTD	
Dialog	Mesyuarat Jawatankuasa Penilaian Utama (JAKPEN UTAMA) Bil. 5/2021	18/11/2021 9.30 am - 12.00 pm	Microsoft Teams Meeting (Online meeting)	Ir. C. Kamalesen	1/1	WRTD	
(20) Suruha	anjaya Tenaga (ST)						
Dialogue / Meet- ings:	Pembentangan Hasil Bagi Kajian Tempoh Perlaksanaan Penentukuran Geganti dan Peranti Perlindungan Kepada Stakeholders	04/02/2021 11.30 am	Microsoft Teams	Ir. Ng Win Siau	1/1	EETD	
Dialo	Focus Group Bil. 2 Mengenai Sistem Perlindungan Kil	02/03/2021 9.30 am	Microsoft Teams	Ir. Lim Kim Ten	1/1	EETD	
(21) Sustain	nable Energy Development Author	ity Malaysia (SEDA M	lalaysia)				
Dialogue / Meetings:	Mesyuarat Jawatankuasa Teknikal Pembangunan Modul Latihan Bil. 1/2021 - Memuktamadkan Modul Latihan Tenaga Termal	26/01/2021 11.00 am - 1.00 pm	Microsoft Teams	Ir. Hayati Abdullah	0/1	Excomm	



Organiser	Title	Date / Time	Venue	Representatives	Attendance	Committee	Remarks
ences/Events ns / Lectures nars / Talks / ls / Workshop:	Jemputan ke Seminar Atas Talian Pembangunan Panduan Zero Energy Building (ZEB) Design	04/03/2021 2.00 - 5.15 pm	Microsoft Teams	Ir. Chong Chew Fan	1/1	EETD	
Conferen / Forums / Semina Trainings /	Jemputan ke Training on Thermal Energy (Introductory)	22/07 - 23/07/2021 8.30 am - 5.00 pm	Microsoft Teams	Ir. Hayati Abdullah	1/1	Excomm	
(22) Univer	siti Tenaga Nasional (UNITEN)						
Dialogue / Meetings:	Mesyuarat Tahunan Industry Advisory Panel (IAP) Jabatan Kejuruteraan Awam, Kolej Kejuruteraan, Universiti Tenaga Nasional (UNITEN) Secara Atas Talian	02/12/2021 9.00 am - 12.00 pm	Microsoft Teams	Ir. David Ng Shiu Yuen	1/1	CSETD	





ENGINEERING HALL OF FAMEKEJURUTERAAN "HALL OF FAME"



	2009
Allahyarham Tan Sri Ir. Hj. Yusoff bin Ibrahim	: IEM Founding Member and 1st IEM President.
The Late Academician Tan Sri Ir. (Dr.) JG Daniel	: IEM Founding member and Counsellor to IEM Constitution and Bylaws.
The Late Ir. K. Kumarasivam	: Wellknown and eminent engineer in championing: Environmental issues for engineering profession.
The Late Tan Sri Datuk Ir. Prof. (Dr.) Chin Fung Kee	: Eminent and Distinguished engineer well recognised : internationally and the 1st non European to hold the : position of Chairman of Commonwealth Engineering : Council (CEC).
The Late Y.Bhg. Dato' Ir. Pang Leong Hoon	: IEM President when IEM reached 25 years of age and contribution as the long standing Election Officer.
	2012
Tan Sri Dato' Ir. (Dr.) Haji Abu Zarim bin Haji Omar	 IEM President responsible for housing IEM Secretariat at TNB office at Jalan Timur for years until Bangunan Ingenieur is completed.
Allahyarham Raja Tan Sri Ir. Zainal bin Raja Sulaiman	 Founding Member and 2nd IEM President responsible to application of land for Bangunan Ingenieur, P. Jaya.
The Late Ir. Chiam Teong Tee	 IEM President and Responsible for setting up of BEM, Engineers Act and the IEM Constitution and Bylaws as well as the Professional Interview Regulation.
Y.Bhg. Academician Dato' Ir. Lee Yee Cheong	Internationally acclaimed President of IEM who is the 1st Malaysian to become President of World Federation of Engineering Organisations (WFEO). The 2nd Malaysian to Chair Commonwealth Engineering Council (CEC).
	2019
Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik	 IEM Past President who had contributed tremendously to Engineering Education in the country receiving numerous awards locally and internationally. In 2019, received the World Federation of Engineering Organisations (WFEO) Award for Engineering Excellence.





IEM TOP MEMBERSHIP DRIVE AWARDS (formerly known as IEM Most Supportive Award) Anugerah IEM Bagi Organisasi / Individu Paling Menyokong



Top Membership Drive Award for Recruitment of Graduate Members (Individual)

Year	Recipient	Award given in
2007	Ir. Prof. Dr. Amir Hashim bin Mohd Kassim	2008
2008	Ir. Abdul Talib bin Din	2009
2009	Ir. Dr. Ramlee Karim	2010
2010	Ir. Adnan Zulkiple	2011
2011	Ir. Ahmad bin Tamby Kadir	2012
2012	Ir. Prof. Dr. Zainal Abidin bin Ahmad	2013
2013	Ir. Dr. Tan Chee Fai	2014
2014	Ir. Prof. Dr. Zainal Abidin bin Ahmad	2015
2015	Ir. Harizan bin Che Mat Haris	2016
2016	Ir. Dr. Khoo Hooi Ling @ Lai Hooi Ling	2017
2017	Ir. Dr. Khoo Hooi Ling @ Lai Hooi Ling	2018
2018	Ir. Chan Cheong Loong	2019
2019	Ir. Kwong Kok Zee	2021

Top Membership Drive Award for Recruitment of Graduate Members (Organisation)

Year	Recipient	Award given in
2007	Universiti Tun Hussein Onn Malaysia (UTHM)	2008
2008	Universiti Teknikal Malaysia, Melaka (UTeM)	2009
2009	Tentera Laut Diraja Malaysia (TLDM)	2010
2010	Universiti Tun Hussein Onn Malaysia (UTHM)	2011
2011	Tenaga Nasional Berhad (TNB)	2012
2012	Universiti Tun Hussein Onn Malaysia (UTHM)	2013
2013	Universiti Teknikal Malaysia, Melaka (UTeM)	2014
2014	Universiti Teknikal Malaysia, Melaka (UTeM)	2015
2015	Universiti Teknologi MARA (UiTM)	2016
2016	Petroliam Nasional Berhad (PETRONAS)	2017
2017	Prasarana Malaysia Berhad	2018
2018	Prasarana Malaysia Berhad	2019
2019	Petroliam Nasional Berhad (PETRONAS)	2021



Top Membership Drive Award for Recruitment of Corporate Members (Individual)

Year	Recipient	Award given in
2007	Y.Bhg. Dato' Ir. Wahid bin Omar	2008
2008	Ir. Dr. Gue See Sew and also	2009
2009	Ir. Chan Sai Chok (same score)	
2010	Ir. Ali Askar bin Sher Mohamad	2010
2011	-	-
2012	-	-
2013	Ir. Dr. Ahmad Anuar bin Othman	2013
2014	Ir. Dr. Ahmad Anuar bin Othman	2014
2015	Ir. Dr. Ahmad Anuar bin Othman	2016
2016	Ir. Dr. Ahmad Anuar bin Othman	2017
2017	Ir. Prof. Dr. Norlida binti Buniyamin	2018
2018	Ir. Gopal Narian Kutty	2019
2019	Ir. Gopal Narian Kutty	2021

Top Membership Drive Award for Recruitment of Corporate Members (Organisation) *Award given to organisation that encourages engineers to be members of this Institution*

Year	Recipient	Award given in
2007	Jabatan Kerja Raya Malaysia (JKR)	2008
2008	Sepakat Setia Perunding Sdn Bhd (SSP)	2009
2009	Jabatan Kerja Raya Malaysia (JKR)	2010
2010	Jabatan Kerja Raya Malaysia (JKR)	2011
2011	Technip Geoproduction Sdn Bhd	2012
2012	Jabatan Pengairan dan Saliran Malaysia (JPS)	2013
2013	Jabatan Pengairan dan Saliran Malaysia (JPS)	2014
2015	Tenaga Nasional Berhad (TNB) Jabatan Pengairan dan Saliran Malaysia (JPS)	2016
2016	Tenaga Nasional Berhad	2017
2017	Tenaga Nasional Berhad	2018
2018	Jabatan Kerja Raya Malaysia (JKR)	2019
2019	Jabatan Kerja Raya Malaysia (JKR)	2021

Most Active Organisation

Year	Recipient	Award given in
2007	Jabatan Kerja Raya Malaysia (JKR)	2008
2008	Sepakat Setia Perunding Sdn Bhd (SSP)	2009
2009	Jabatan Kerja Raya Malaysia (JKR)	2010
2010	Tenaga Nasional Berhad (TNB)	2011
2011	Tenaga Nasional Berhad (TNB)	2012
2012	Universiti Tun Hussein Onn Malaysia (UTHM)	2013
2013	Universiti Tun Hussein Onn Malaysia (UTHM)	2014
2014	Universiti Teknologi MARA (UiTM)	2015
2015	Universiti Teknologi MARA (UiTM)	2016
2016	Tenaga Nasional Berhad	2017
2017	Tenaga Nasional Berhad	2018
2018	Halfen Moment Sdn Bhd	2019
2019	Schneider Electric Industries (M) Sdn Bhd	2021





IEM OUTSTANDING ENGINEERING ACHIEVEMENT AWARD Penganugerahan Pencapaian Kejuruteraan Cemerlang IEM



Year	Recipients and Projects	
	Jabatan Telekom Malaysia	
1985	Bagi Kabel Dasar-Laut: Projek Kuantan-Kuching	
	(For the Kuantan-Kuching Submarine Cable System)	
	Jabatan Parit dan Taliair Malaysia	
1985	Bagi Projek Pengairan Muda	
	(For the Muda Irrigation Project)	
	Lembaga Letrik Negara Tanah Melayu	
1986	Bagi Projek Pembangunan Hidro Elektrik Hulu di Perak	
	(For the Upper Perak Hydro-Electric Development Project)	
	Lembaga Kemajuan Tanah Persekutuan (FELDA)	
1987	Untuk Peranan Perbadanan Kilang Felda Dalam Pembangunan Industri Minyak Sawit	
	(For the Role and Contribution of FELDA Mills Corporation (FELMIL) in the Development of Palm Oil Industry)	
	Petroleum Nasional Berhad (Petronas Gas Sdn Bhd)	
1988	Bagi Projek Penggunaan Gas Semenanjung Peringkat Pertama	
	(For the Peninsular Gas Utilisation Project - Stage 1)	
	Perbadanan Memajukan Iktisad Negeri Terengganu dan Sepakat Setia Perunding Sdn. Bhd.	
1989	Bagi Rekabentuk dan Pembinaan Pelabuhan Tanjung Berhala Malaysia	
	(For the Design and Construction of the Port of Tanjung Berhala in Malaysia)	
	Lembaga Lebuhraya Malaysia	
1990	Untuk Projek Jambatan Pulau Pinang	
	(For the Penang Bridge Project)	
	Jabatan Pengairan dan Saliran Malaysia	
1993	Untuk Projek Pembangunan Pertanian Integrasi di Johor Barat	
	(For the West Johore Intergrated Agricultural Development Project)	
	Tenaga Nasional Berhad	
1993	Bagi Projek Rekabentuk dan Pembinaan Stesyen Kuasa Elektrik Sultan Salahuddin Abdul Aziz – Fasa II	
	(For The Design and Construction of Sultan Salahuddin Abdul Aziz Power Station Phase II Project)	
	Lembaga Lebuhraya Malaysia dan Projek Lebuhraya Utara-Selatan Berhad	
1994	Atas Projek Lebuhraya Utara-Selatan	
	(On the North-South Toll Expressway Project)	
	Jabatan Kerja Raya	
1995	Atas Peranan Jabatan Kerjaraya dalam Pembangunan Nasional	
	(On the Role of JKR in National Development)	
	Malaysian Institute of Microelectronic Systems (MIMOS)	
1996	Atas Peranannya Dalam Pembangunan Mikroelektronik dan Teknologi Maklumat	
	(On Its Role in the Development of Microelectronics and Information Technology)	
	Ethylene Malaysia Sdn. Bhd. dan Polyethylene Malaysia Sdn. Bhd.	
1997	Atas Pembangunan Industri Petrokimia di Malaysia - Pengalaman Pembinaan Tanaman Ethylene/Polyethlene	
1337	di Malaysia (For the Development of the Petrochemical Industry in Malaysia – Construction Experience of the Malaysian	
	Ethylene/Polyethylene Plants)	
	KLCC (Holdings Bhd)	
1998	Bagi Memajukan Projek Menara Berkembar Petronas	
	(On the Development of the Petronas Twin Tower Project)	



Year	Recipients and Projects	
	Kuala Lumpur International Airport Berhad	
1999	Atas Projek Lapangan Terbang Antarabangsa Kuala Lumpur di Sepang	
	(For the Construction of the Kuala Lumpur International Airport, Sepang)	
	Sistem Transit Aliran Ringan Sdn. Bhd. (STAR) dan	
0000	Projek Usahasama Transit Ringan Automatik Sdn. Bhd. (PUTRA)	
2000	Atas Pembinaan Sistem Transist Ringan di Lembah Klang	
	(For the Construction of the Light Rail Transit Systems in the Klang Valley)	
	Maju Holdings Sdn Bhd	
2001	Menara 1 Maju Perdana – Pencakar Langit Pertama Menggunakan Keluli Buatan Malaysia	
	(Perdana Tower 1 – The First All Malaysia Steel High Rise)	
	Road Builder (M) Sdn Bhd	
2003	Atas Pembinaan Jambatan Kabel 300m Seri Saujana	
	(On The Construction of Seri Saujana 300m Cable-Stayed Arch Bridge (BR-8) in Putrajaya)	
	Perunding Mahir Bersatu Sdn Bhd gabungan bersama (jointly with)	
	Sinclair Knight Merz Engineering Sdn Bhd	
2004	Atas Rekabentuk Struktur Pusat Konvensyen Antarabangsa Putrajaya	
	(On The Structural Design of Putrajaya International Convention Centre)	
	M.E.I. Consultants Sdn Bhd	
2005	Atas Kejayaannya Menyiapkan dan Merekabentuk Peralatan Stevian Bioteknikal di Enstek, Negeri Sembilan	
	(On The Successful Design and Completion of Stevian Biotechnology Facilities in Enstek, Negeri Sembilan)	
	Zelan Construction Sdn Bhd	
2006	Atas Pembentung Luahan Air Pendingin untuk Penjana Kuasa Arang Batu 3 x 700 mw di Tanjung Bin, Johor	
	(On the Cooling Water Discharge Culvert for 3x700 mw Coal Fired Power Plant in Tanjung Bin, Johore)	
	Multimedia University Malaysia	
2007	Atas Peranan sebagai Universiti Swasta pertama di Malaysia untuk memberi pendidikan kejuruteraan berkualiti	
	(On Its Role as the First Private University in Malaysia in Providing Quality Engineering Education)	
	T & T Konsult Sdn Bhd	
2008	Atas Rekabentuk, Pembinaan dan Operasi Tapak bagi Projek Pelupusan Sisa Pepejal Sanitary Bukit Tagar	
	(On the Design, Construction and Operation of Bukit Tagar Sanitary Landfill Project)	
	Syarikat Mengurus Air Banjir & Terowong Sdn Bhd dan Jabatan Pengairan dan Saliran	
2010	Atas Pembinaan & Rekabentuk Projek SMART	
	(on the Construction and Design of SMART Tunnel Project)	
	M.E.I. Project Engineers Sdn Bhd	
2012	Atas Kejayaan Menyiapkan dan Merekabentuk Peralatan untuk Kejuruteraan, Perolehan, Pengurusan, Pembinaan (EPCM) untuk 127-Ekar Kilang Solar "AUO Sunpower" di Solar Valley Melaka, Taman Perindustrian Rimbia, Alor Gajah, Melaka dengan Keupayaan Pengeluaran Tahunan melebihi 1GW Puncak "Panel Suria Yang Tercekap Di Dunia"	
	(On the successful Design and Completion for Engineering, Procurement, Construction Management [EPCM] of the 127-Acre AUO Sunpower Solar Plant at Melaka Solar Valley, Rembia Industrial Park, Alor Gajah, Melaka with Full-Build Annual Capacity in Excess of IGW Peak 'The World's Most Efficient Solar Panel")	
	Ikhmas Jaya Sdn Bhd	
2014	Atas kejayaan dalam rekabentuk dan innovasi Jambatan Ayun Landasan Berkembar di Prai.	
	(On the successful Design and Innovativeness of the Double Tracking Swing Bridge in Prai)	
	Shell Projects and Technology, Malaysia	
2017	Atas kejayaan dalam rekabentuk dan pembinaan projek "Malikai Deepwater Tension Leg Platform"	
	(On the successful design and construction of the Malikai Deepwater Tension Leg Platform Project)	



	Year	Recipients and Projects
		TRX City Sdn Bhd
2021	Atas kejayaan dalam rekabentuk dan pembinaan Sewerage Treatment Plant (STP) - The First Private Wastewater and Recycling Plant for the International Financial District, Tun Razak Exchange (TRXC)	
		(On the successful design and construction of the Sewerage Treatment Plant (STP) - The First Private Wastewater and Recycling Plant for the International Financial District, Tun Razak Exchange)



IEM AWARD FOR CONTRIBUTION TO ENGINEERING PROFESSION IN MALAYSIA Penganugerahan IEM Atas Sumbangan Terhadap Profesion Kejuruteraan Dalam Malaysia



Year	Recipients
1989	Y.Bhg. Tan Sri Dato' Ir. (Dr.) Shamsudin bin Abdul Kadir
1909	Executive Chairman, Sapura Holdings Sdn. Bhd.
1990	Ir. Hong Lee Pee
1990	Director and Chief Executive, Pilecon Engineering Bhd.
1993	Y.Bhg. Dato' Ir. Prof. Dr. Muhammad Ridzuan bin Hj. Salleh
1333	Vice Chancellor, Universiti Teknologi Malaysia
1994	Y.Bhg. Tan Sri Dato' Ir. (Dr.) Wan Abdul Rahman bin Yaacob
1004	President, Board of Engineers, Malaysia concurrently Director-General of Public Works Department, Malaysia
1995	Y.Bhg. Tan Sri Dato' Ir. Hj. Shahrizaila bin Abdullah
1555	Director-General, Department of Irrigation and Drainage
1996	Y.Bhg. Dato' Dr. Ir. Ahmad Tajuddin bin Ali
1000	Director-General, Standards and Industrial Research Institute of Malaysia
	Y.Bhg. Dato' Ir. Zaidan bin Hj. Othman
1997	Executive Chairman, Time Telecommunications Sdn. Bhd. concurrently
	Executive Vice Chairman, Kinta Kellas Public Limited Company
1999	Y.Bhg. Tan Sri Dato' Ir. Omar bin Ibrahim
1000	President, Board of Engineers Malaysia concurrently Director-General of Public Works Department
2000	Y.A.Bhg. Tengku Datuk Ir. Dr. Mohd Azzman Shariffadeen bin Tengku Ibrahim
	President and Chief Executive Officer of MIMOS Berhad
2002	Y.Bhg. Dato Paduka Ir. Prof. (Dr.) Hj. Keizrul bin Abdullah
	Director-General, Department of Irrigation and Drainage
2003	Y.Bhg. Tan Sri Dato' Ir. Hj. Zaini bin Omar
	Director-General, Public Works Department
2005	Y.Bhg. Tan Sri Dato' Ir. Muhammad Radzi bin Hj. Mansor
	Chairman, Telekom Malaysia Berhad
2006	Y.Bhg. Academician Dato' Ir. Lee Yee Cheong
	President of World Federation of Engineering Organisations and Past President, IEM
2007	Y.Bhg. Dato' Sri Ir. Prof. Dr. Wahid bin Omar
	President of BEM and concurrently Director- General of Public Works Department
2010	Late Ir. Chiam Teong Tee
	Past President of IEM
0004	Ir. Prof. Dr. Mohd Azlan bin Hussain
2021	For his project entitled "Automated Self-cleaning Solar Powered Mobile Ultrafiltration System for Clean Water Supply"





IEM AWARD FOR CONTRIBUTION TO ENGINEERING INDUSTRY IN MALAYSIA Penganugerahan IEM Atas Sumbangan Terhadap Industri Kejuruteraan Dalam Malaysia



Year	Recipients	
	Utility	Tenaga Nasional Berhad
2015	Water and Wastewater	Salcon
2015	Construction	Sunway Construction Berhad
	Property Development	IJM Land Berhad
	Waste Water Management	Ekovest Berhad
	Transportation	Gamuda Berhad
2016	Energy	Pestech International Berhad
	Property Development	Sunway Integrated Properties Sdn Bhd
	Water	Taliworks Corporation Berhad
	Property Development	Eco World Development Group Berhad
	Construction	Ekovest Berhad
2017	Water	IJM-JAKS Joint Venture
	Energy	Malaysia LNG Sdn Bhd
	Transportation	RAPID RAIL Sdn Bhd
	Property Development	Ekovest Berhad
	Construction & Proprietary System	BSG Construction (Malaysia) Sdn Bhd
	Water & Wastewater	T&T Pacific Sdn Bhd
2018	Energy (Power)	Daikin Malaysia Sales & Service Sdn Bhd
2010	IT & Communication	Bina Initiatives Sdn Bhd
	Consultancy Engineering Practice	One Smart Engineering Sdn Bhd
	Material & Proprietary System	TenCate Geosynthetics Asia Sdn Bhd
	Facilities Management	UEM Edgenta Berhad
	Power and Energy	Gading Kencana Sdn Bhd
2019	Construction & Property Development	Cemseal Industries Sdn Bhd
	Consultancy Engineering Practice	Sepakat Setia Perunding
	Water Industry	Bacteria Free Water Engineering (M) Sdn Bhd
	Power Energy & Green Technology Industry	Berjaya Enviroparks Sdn Bhd
2021	Engineering Consultancy Practices (ECP)	Afrima Consulting Engineer Sdn Bhd
	Construction & Property Development	KLCC Projeks Sdn Bhd
	Digital Industry	Centre of Excellence (COE) Petronas Carigali Sdn Bhd



IEM SPECIAL MERIT AWARD Anugerah Merit Khas



Year	Recipient and Project	
2013	Minconsult Sdn Bhd	
	For the successful completion of the Malaysia's first state of the art automated mail processing hub.	





IEM WOMAN ENGINEER AWARD Penganugerahan Kejuruteraan Wanita IEM



Year	Recipients
2005	Y.Bhg. Datin Paduka Ir. Prof. Dr. Siti Hamisah binti Tapsir
2006	Ir. Ong Kik Hong
2007	Ir. Prof. Dr. Siti Hawa binti Hamzah
2009	Y.Bhg. Datuk Ir. Rosaline Ganendra
2013	The Late Ir. Molly Sim Lim Hong
2014	Ir. Magdalene Tan Lee
2015	Ir. Assoc. Prof. Hayati binti Abdullah
2016	Ir. Prof. Dr. Norlida binti Buniyamin
2018	Ir. Prof. Dr. Leong Wai Yie



IEM YOUNG ENGINEER AWARD Penganugerahan Kejuruteraan Muda IEM



Year	Recipients	
1991	Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik	
1995	Ir. Prof. Dr. Marzuki bin Khalid	
2004	Ir. Koo Voon Chet	 Industry Award
2004	Ir. Dr. Ramesh Singh	 Academic Award
2006	Dr. Luqman Chuah bin Abdullah (Chuah Teong Guan)	 Academic Award
2006	Dr. Goh Swee Por	 Industry Award
2008	Ir. Prof. Dr. Law Chung Lim	 Academic Award
2009	Dr. Vigna Kumaran a/l Ramachandramurthy	 Academic Award
2009	Ir. Teh Tzyy Wooi	 Industry Award
2010	Ir. Prof. Dr. Dominic Foo Chwan Yee	 Academic Award
2012	Ir. Dr Lee Tin Sin	 Academic Award
2013	Ir. Catherine Sim Siew Ping	Industry Award
2013	Mr. Roland Ngeow Yen Wan	 Academic Award
2014	Ir. Yau Chau Fong	Industry Award
2014	Ir. Mohd Farriz bin Hj Md. Basar	 Academic Award
2015	Ir. Lai Woon Fatt	Industry Award
2015	Dr. Ng Kok Sum	 Academic Award
2021	Ir. Dr. Lai Khin Wee	 Academic Award



THE ASEAN OUTSTANDING ENGINEERING ACHIEVEMENT AWARD Penganugerahan Kejuruteraan ASEAN



Year	Recipients and Projects	Awarded in
1994	Tenaga Nasional Berhad (<i>Organiser- Pertubuhan Ukur, Jurutera dan Arkitek</i>) [PUJA] The Design and Construction of Sultan Salahuddin Abdul Aziz Power Station Phase II Project	Bandar Seri Begawan, Brunei Darussalam
1995	Y.Bhg. Tan Sri Dato' Ir. (Dr.) Shamsuddin Abdul Kadir (Organiser – The Institution of Engineers, Indonesia)[PII]	Bandung, Indonesia



Year	Recipients and Projects	Awarded in	
1996	Malaysian Resources Corporation Berhad (Organiser – The Institution of Engineers, Malaysia)[IEM]	<i>eers,</i> Malacca, Malaysia	
	The Construction of the SEGARI Power Station		
1997	Jabatan Kerja Raja (Organiser – The Engineering Institute of Thailand)[EIT]	Chiangmai, Thailand	
	The Role of the Public Works Department, Malaysia in National Development	Omangman, manama	
1998	Malaysian Institute of Microelectronic Systems (Organiser – The Philippines Technological Council)[PTC]	Angeles City, Philippines	
	Its Role in the Development of Microelectronics and Information Technology		
1999	K. L. International Airport Berhad (Organiser – The Institution of Engineers, Singapore)[IES]	Raffles City, Singapore	
	The Construction of the Kuala Lumpur International Airport		
2000	Projek Usahasama Transit Ringan Automatik Sdn Bhd (PUTRA) (Organiser – Vietnam Union of Science and Technological Associations)[VUSTA]	Hanoi, Vietnam	
	The Construction of the Light Rail Transit System 2		
2001	Y.Bhg. Tan Sri Dato' Hj. Ir. Zaini bin Omar (Organiser – Pertubuhan Ukur, Jurutera an Arkitek)[PUJA]	Bandar Seri Begawan, Brunei Darussalam	
2001	Y.Bhg. Academician Dato' Ir. Lee Yee Cheong (Organiser – Pertubuhan Ukur, Jurutera dan Arkitek)[PUJA]	Bandar Seri Begawan, Brunei Darussalam	
2002	Y.Bhg. Dato' Paduka Ir. Prof. (Dr.) Hj. Keizrul bin Abdullah (Organiser – Engineering Institute of Cambodia)[EIC]	Phnom Penh, Cambodia	
2005	MEI Consultants Sdn Bhd (Organiser – Laos Union of Scientists and Engineers Association)[LUSEA]	Vientiane, Lao PDR	
2003	On The Successful Design and Completion of Stevian Biotechnology Facilities in Enstek, Negeri Sembilan	vieitilarie, Lao i Di	
2006	Perunding Mahir Bersatu Sdn Bhd jointly with Sinclair Knight Merz Engineering Sdn Bhd (Organiser – The Institution of Engineers, Malaysia)[IEM]	Kuala Lumpur, Malaysia	
	On The Structural Design of Putrajaya International Convention Centre	Malayola	
2006	Fraser and Neave Berhad (Organiser – The Institution of Engineers, Malaysia)[IEM]	Kuala Lumpur,	
	For Zon-e @ Fraser Biz Park Development	Malaysia	
2007	Multimedia University Malaysia (Organiser – The Philippines Technological Council) [PTC] On Its Role as the First Private University in Malaysia in Providing Quality Engineering	Cebu, Philippines	
	Education To Still To To A to A to A		
	Y.Bhg. Dato' Ir. Dr. Gue See Sew (Organiser – The Philippines Technological Council)[PTC]		
2007	For his contribution to ASEAN Engineers Register (AER) and ASEAN Federation of Engineering Organisation (AFEO) as well as in the Asia Pacific Economy Corporation (APEC)/Engineers Mobility Forum (EMF)	Cebu, Philippines	
	T & T Konsult Sdn Bhd (Organiser – The Engineering Institute of Thailand)[EIC]		
2008	On the Design, Construction and Operation of Bukit Tagar Sanitary Landfill Project	Bangkok, Thailand	
0010	Ir. Choo Kok Beng (Organiser – Vietnam Union of Science and Technological Associations)[VUSTA]	Hanai Vietere	
2010	For his contribution to ASEAN Engineers Register (AER) and ASEAN Federation of Engineering Organisation (AFEO)	Hanoi, Vietnam	
2011	Syarikat Mengurus Air Banjir & Terowong Sdn Bhd and Department of Irrigation and Drainage [JPS] (Organiser- Pertubuhan Ukur, Jurutera dan Arkitek) [PUJA]	Bandar Seri Begawan, Brunei Darussalam	
	On the Construction and Design of SMART Tunnel Project	Diunei Daiussalaili	
	M.E.I. Project Engineers Sdn Bhd (Organiser – Board of Engineers, Cambodia) [BEC]		
2012	On the successful Design and Completion for Engineering, Procurement, Construction Management [EPCM] of the 127-Acre AUO Sunpower Solar Plant at Melaka Solar Valley, Rembia Industrial Park, Alor Gajah, Melaka with Full-Build Annual Capacity in Excess of IGW Peak 'The World's Most Efficient Solar Panel'	Phnom Penh, Cambodia	



Year	Recipients and Projects	Awarded in	
2014	Ikhmas Jaya Sdn Bhd On the successful Design and Innovativeness of the Double Tracking Swing Bridge in Prai	e Tracking Swing Bridge Yangon, Myanmar	
2015	Jambatan Kedua Sdn Bhd (Organiser – The Institution of Engineers, Malaysia)[IEM] On the successful Design and Construction of the Second Penang Bridge Project	Penang, Malaysia	
2015	PPAMPS, Ministry of Energy, Green Technology and Water Malaysia (Organiser -The Institution of Engineers, Malaysia)[IEM] On the successful Design and Construction of the Pahang-Selangor Raw Water Transfer Project		
2015	Jabatan Bekalan Air KETTHA and Angkasa Consulting Services Sdn Bhd (Organiser – The Institution of Engineers, Malaysia)[IEM] For Outstanding Achievement in Managing the Challenges in the Design, Construction and Supervision of Mengkuang Dam Expansion Project Pulau Pinang	Penang, Malaysia	
2015	Perbadanan Bekalan Air Pulau Pinang Berhad (Organiser – The Institution of Engineers, Malaysia)[IEM] For the Design and Construction of the Sungai Dua Water Treatment Plant	Penang, Malaysia	
2015	Y.Bhg. Dato Wong Siew Hai (Organiser – The Institution of Engineers, Malaysia) [IEM] For his success as an Outstanding Engineer and Industry leader who has devoted constantly to the Society and Community in Malaysia	Penang, Malaysia	
2017	Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik (Organiser – The Engineering Institute of Thailand)[EIT]	Bangkok, Thailand	
2017	Shell Projects and Technology, Malaysia (Organiser – The Engineering Institute of Thailand)[EIT] For the successful Design and Construction of the Malikai Deepwater Tension Leg Platform Project)	Bangkok, Thailand	



FEIAP ENGINEER OF THE YEAR AWARD Penganugerahan Jurutera Tahunan FEIAP



Year	Recipients
2010	Y.Bhg. Dato' Ir. Dr. Gue See Sew
2014	Y.Bhg. Dato' Paduka Ir. Hj. Keizrul bin Abdullah
2017	Y.Bhg. Academician Dato' Ir. Lee Yee Cheong
2019	Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik



WORLD FEDERATION OF ENGINEERING ORGANISATION (WFEO) Hassib J Sabbagh Award for Engineering Construction Excellence



Year	Recipients and Projects
2003	Y.Bhg. Dato' Paduka Ir. Prof. (Dr.) Hj. Keizrul bin Abdullah Y.Bhg. Dato' Ir. Batumalai a/I Ramasamy Ir. Mohd. Azhari bin Ghazali
	Construction of Small Dam and Irrigation facilities and Related Works at MARDI Station Jelebu, N 9 by Department of Irrigation and Drainage



WORLD FEDERATION OF ENGINEERING ORGANISATION (WFEO) Medal of Excellence in Engineering Education



Year	Recipients
2019	Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik





MINUTES OF 62nd ANNUAL GENERAL MEETING OF THE INSTITUTION OF ENGINEERS, MALAYSIA HELD ON 17 APRIL 2021 VIA VIRTUAL MODE AT 9.00AM



MEMBERS PRESENT - AS PER APPENDIX A

1.0 OPENING ADDRESS BY THE PRESIDENT

1.1 The President, Ir. Ong Ching Loon called the AGM to order at 9.02am and welcomed the members to the 62nd Annual General Meeting (AGM) held for the second time via virtual platform. The President informed that although the AGM was held virtually, it did not dampen the members' enthusiasm to attend the AGM. Moreover, the AGM being held virtually had allowed members from not only the Klang Valley but all over the country to join the AGM and this was an advantage.

In order to adhere to the Standard Operating Procedures (SOPs), the Honorary Secretary was then invited to brief the AGM on the Rules/Procedures of Conducting the AGM virtually as follows:

- Due to the constraints of the virtual platform, only a number of questions would be allowed. However, contrary to last year, IEM had improved on the arrangement where members would be able to pose their questions verbally;
- (ii) only a grace period of 10 minutes would be allowed for a maximum of 5 questions for every segment. Members would need to click on the "raise hand" icon and the IT staff would turn on the microphone for the member to speak. The member would need to provide his/her name and membership number clearly before proceeding to pose the question.
- (iii) Alternatively, for members who do not wish to speak, he/she could type the question into the "chat box". The question would be posted onto the screen for the rest of the members to see before a response is given.

The Honorary Secretary thanked the members for their attention and thereafter handed over the meeting back to the President. The President then presented the overall reports/updates from August 2020 to April 2021 as follows:

1.2 Updates on IEM for Session 2020/2021

1.2.1 *Meetings with the Ministries*

The President had attended the following meeting with the various Ministries:

- "Sesi Libat Urus Penggiat Industri Pembinaan" with the Senior Minister, Kementerian Kerja Raya and Minister in the Prime Minister's Department on 22 September 2020;
- (ii) "Sesi Libat Urus Bersama Wakil Industri Berkaitan "Pematuhan & Pengkuat-kuasaan SOP Di Tapak Pembinaan" at the Kementerian Kerja Raya on 25 January 2021 and a subsequent meeting on 10 March 2021.

1.2.2 IEM Position Papers

The AGM was informed that the following two (2) position papers had been submitted to the relevant Ministries:

- (i) Position Paper on "Building Capacity of Railway Systems Engineering for the Future" to the Ministry of Transport
- (ii) Position Paper on "IEM Position Paper on "The Impact of Sea Level Rise on Coastal Communities and Development" to the relevant Ministries

The AGM further noted that further to the Position Paper submitted, the Ministry of Transport had also invited for IEM representatives to participate in their Railway Engineering Centre of Excellence (RCoE) which comprised of four Working Groups / Sub Committees.

As for the Position Paper on "IEM Position Paper on "The Impact of Sea Level Rise on Coastal Communities and Development", IEM was currently waiting for response from the relevant Ministries.



1.2.3 Joint Memorandum/ Statement with Various Parties

The AGM was informed that IEM had submitted a memorandum for a MITI dialogue as well as supported the Building Industry President's Council (BIPC) in a collective joint statement to object to the extension of the HRDF levy to construction companies. The statement had been published in "Utusan Malaysia" and the Chinese daily newspaper "Nanyang Siang Pau".

1.2.4 International Meetings

The AGM noted that the President also attended the following international meetings virtually:

- (i) CAFEO38 Hanoi conducted virtually for the first time from 18 26 November 2020 by the Vietnam Union of Science and Technology Associations (VUSTA).
- (ii) World Federation Engineering Organisation (WFEO) on 23 September 2020.
- (iii) IPEA/APEC of the International Engineering Alliance Meeting (IEA) on 28 January 2021.
- (iv) International Tunnelling Association (ITA) Extraordinary General Assembly on 10 February 2021.
- (v) Federation of Engineering Institutions of Asia and the Pacific (FEIAP) on 30 March 2021.

1.2.5 Courtesy Visits

The AGM was also informed that the President had courtesy visits to the new BEM President's office on 30 November 2020. The new BEM President, YBhg. Dato' Ir. Haji Mohamad Zulkefly bin Sulaiman is also the Director General of the Public Works Department (JKR). It was reported that the BEM President had also held the post of Honorary Secretary of the then IEM Eastern Branch for Session 2002/2003.

Another courtesy visit was made to the office of Menteri Besar Johor on 18 March 2021 mainly to request for their support for IEM Southern Branch who would be organizing the Mid-term-AFEO Board meeting in Johor Bahru.

1.2.6 *MoU*

The President further reported on the signing of the Memorandum of Understanding between IEM with the following institutions/organisations:

- (i) Institution of Mechanical Engineers UK (IMechE) on 24 August 2020.
- (ii) Malaysian Productivity Corporation (MPC) with IEM Training Centre on 5 December 2020.
- (iii) American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Malaysia Chapter on 5 April 2021.
- (iv) Johor Centre for Construction Development (JCCD) on 8 April 2021.

1.2.7 Position Paper and Press Statement

The AGM was informed that IEM had completed several position papers and issued press statements requesting for support from the government for small and medium engineering consulting firms that faced financial difficulties especially during the pandemic.

1.2.8 Special Activities

The President further reported on the following special activities that had been organised via virtual platform:

- (i) Tan Sri Ir. Hj. Yusoff Ibrahim Final Year Project 2020 of which the final presentation was organised on 24 November 2020. A total of 36 entries were received from Institutions of Higher Learning (IHLs) and the projects were presented virtually due to CMCO.
- (ii) MyAPEC Exhibition Webinar Series on Internationalising Malaysian Professional Engineering Service was held on 24 November 2020. IEM was appointed by MATRADE to handle the MyAPEC2020 webinar series for Internationalising Professional Engineering Services. The speakers were the President, Ir. Ong Ching Loon, Ir. Yau Chau Fong and Ir. Dr. Lee Yun Fook. The Moderator was Ir. Yam Teong Sian.
- (iii) 8th ASEAN-Korea Engineering Forum was held on 4 December 2020 and was IEM was represented by the President.



- (iv) Hari Profesion Teknikal Negara 2020 was held during the month of December 2020 where a number of webinars and competitions were organised. IEM's 3-minunte video challenge poster won the poster prize from the Organisers.
- (v) The first Engineer PowerTalk was held on 12 January 2021. The event was organised as part of the run-up to ENGINEER2021 in September and the webinars were organised under "ENGINEER POWER TALK" series. The second webinar was held on 24 March 2021 whereas the third segment was scheduled to be held on 29 April 2021.
- (vi) International Conference on Engineering Education Accreditation hosted by the Myanmar Engineering Council held virtually from 14 16 January 2021.
- (vii) IEM-ISTIC webinar on "Electrical Maintenance in ASEAN and South-South Countries" was held on 3 March 2021.
- (viii) A forum on "How to Turnaround Business in Covid-19 Pandemic" was held on 26 March 2021.
- (ix) Launching of the two (2) new IEM membership grades; Engineering Technologist and Engineering Technician was held on 3 April 2021. In addition to this, the AGM was informed that IEM would be signing another two (2) more agreements namely the International Engineering Technologist Agreement (IETA) and the Agreement for International Engineering Technicians (AIET) in June 2021. The President then thanked the Board of Engineers, Malaysia (BEM) for their support on this matter highlighting that this will be another historic moment for IEM.

The AGM also noted that a total of 273 webinars had been organised from 18 April 2020 until 31 March 2021 and the total number of participants were 29,211. This had generated a revenue of RM328,776. The President then thanked the Technical Divisions, the Special Interest Groups and the Sections for their effort and contribution for organising their respective webinars during the said period.

Before presenting the next item, a soft launch of ENGINEER2021 was presented to the AGM. ENGINEER2021 would be held from September 9 – 11, 2021.

2.0 AGENDA FOR AGM

Upon concluding his report, the President then presented the Agenda for the AGM as follows:

- 1. Confirmation of Minutes of 61st Annual General Meeting held on 25 July 2020
- 2. Matters Arising from the 61st Annual General Meeting held on 25 July 2020
- 3. Presentation of Honorary Secretary's report
- 4. Presentation of Financial Statements for the Year ended 31 December 2020
- 5. Questions Submitted by members
- 6. Presentation of the Results of Election for Council Session 2021/2022
- 7. Presentation of Awards
- 8. Presidential Address for Session 2021/2022

Since there was no objection to the Agenda, the President proceeded with 61st Annual General Meeting proper.

3.0 CONFIRMATION OF MINUTES OF 61st ANNUAL GENERAL MEETING HELD ON 25 JULY 2020

The President invited the members to go through the minutes of the previous AGM which was printed on pages 54 until page 70. The AGM was also requested to go through the attendance list from pages 71 to 77 and the Bahasa Malaysia version which was on pages 78 to 95.

President further informed that should any member wish to comment, he/she would need to click on the "RAISE HAND" icon.

Ir. Prof. Dr. Jeffrey Chiang Choong Luin (F20286) pointed out that there was an error to his name in the attendance list as the title "Dato" was stated in front of his name. The President noted the comment and responded that amendment would be made accordingly.

Since there were no further errors highlighted in the minutes, Ir. Dr. Tan Chee Fai (F18343) proposed that the minutes of the 61st Annual General Meeting held on 25 July 2020 be confirmed and adopted. The motion was seconded by Ir. Mohd Aman bin Hj. Idris (F02176).



4.0 MATTERS ARISING

The President then provided clarifications on the following items raised at the 61st Annual General Meeting held on 25 July 2020:

4.1 **Page 64 –67**

Item 8.14 - Amendments to IEM Constitution

The AGM was informed that the amendments proposed at the last AGM was sent for balloting on 25 August 2020. Upon closing and counting of votes on 23 September 2020 all proposed amendments were accepted by the Corporate Members with more than 75% majority. The amendments were then sent to Registrar of Societies (ROS). The approval from ROS was received on 6 November 2020.

5.0 ANNUAL REPORT FOR SESSION 2020/2021

The President then invited the Honorary Secretary, Ir. Dr. David Chuah Joon Huang to present the various activities and events organised in 2020 which was printed on pages 98 to 140 of the Annual Report. The Honorary Secretary proceeded to report on the matters highlighted in the Annual report as follows:

5.1 Council and Excomm

For the Session 2020/2021, the Council had four (4) Council meetings. The Council at their meetings discussed matters related to policy as well as management of properties and affairs of the Institution.

Excomm had ten (10) meetings for the Session 2020/2021 mainly to implement and carry out the decisions of the Council. The Honorary Secretary informed that normally Excomm would meet monthly and for the session 2020/2021, there was three (3) meetings short as the new session only commenced in July 2020.

It was further noted that the Council and Excomm meetings were held virtually.

5.2 Standing Committees and Day-to-Day Operations

The AGM was informed that Excomm continued to be assisted by eight (8) Standing Committees in the day-to-day operations. Each of the Standing Committees was chaired by a Vice President with the Finance Committee being chaired by the Deputy President.

5.3 **Membership**

Up to 31 December 2020, a total of 4,123 candidates were approved for admission/election/transfer to the various grades. Out of the new members recruited, 2,813 were students. However, at the end of the year, 3,401 members were in arrears compared to 2,304 in 2019. The overall total of IEM membership as at 1 March 2021 was 47.087.

On the international front, the breakdown was as follows; 25 candidates were registered for APEC & IntPE, 18 for ASEAN Engineers (AE), 22 for Associate ASEAN Engineers (AAE) and one (1) for Associate Engineering Technologist.

In terms of breakdown of membership by grades, the Honorary Secretary further informed that Student membership had the highest percentage at 53.4% followed by Graduate (24.2%), Members (19.3%), Fellow (1.6%) and the other grades such as Incorporated, Affiliate and Associate were 1.5%.

As for the breakdown in terms of the major engineering disciplines, Civil had the highest percentage with 34%, followed by Mechanical (25%), Electrical (15%), Electronic (9%) and Chemical (7%).

5.4 **Professional Interview**

The AGM noted that for session 2020/2021, a total of 214 candidates applied to sit for the Professional Interview (PI). It was further noted that 96 candidates have passed whereas 47 failed the PI. In addition, a total of 56 were waiting to be interviewed whereas 15 were waiting for the results.



5.5 **IEM Publication**

The Honorary Secretary informed the AGM that twelve (12) issue of the "Jurutera" – IEM Bulletin had been published for the year 2020.

The Electronic Jurutera, which is readable without having to download, had been implemented and sent by email blast to members every month. The AGM was also informed that members who wished to have hardcopies of the Jurutera could collect from the IEM HQ office.

It was further reported that two (2) issues of the Journal had been published and uploaded on the IEM website.

5.6 **IEM Activities 2020**

The Honorary Secretary reported that there were altogether 222 events held for Session 2020/2021. These events included evening talks (177), technical visits (5), courses and seminars (38), virtual conference (1) and symposiums (2).

5.7 Members' Benefits

The AGM was informed that more merchants had been signed to include additional benefits for the IEM Loyalty Card such as Wolverine and Red Wing Shoes (Sportwear) and Subaru for the automobiles.

5.8 Launching of New Membership Grades

The Honorary Secretary reported that the two (2) new membership grades; engineering Technologist and Engineering Technicians was officially launched on 3 April 2021.

5.9 New IEM Guidelines for Industry

The AGM was informed that the IEM had introduced a new guideline – "Guidelines on Fire Protection Testing and Commissioning Procedure" for the industry. These Guidelines will be up for sale soon.

5.10 Impact of COVID-19 Pandemic

The Honorary Secretary further reported that Survey No. 4 was conducted for the Session 2020/2021 to gauge the Impact of MCO and the global pandemic on IEM members after the expiry of the moratorium. The response received was from only 669 members and the report was available on IEM website.

In addition to the above, a total of 18 IEM circulars had been issued with information pertaining to incentive packages by the government, latest guidelines from government agencies and updates of reports from IEM. Such information were available from the IEM website.

IEM members were urged to respond to the surveys issued by IEM so as to enable IEM to have better data to put up recommendations to the government for the benefit of members.

5.11 IEM Secretariat Service

The AGM was also informed that Secretariat had resumed working from office. The Honorary Secretary further informed that should any member wish to contact any particular staff, he/she may email to them or call to make an appointment to meet them as there is a need to adhere to Standard Operating Procedures (SOPs).

5.12 Questions Session

5.12.1 Ir. Chong Chai Thiam (M49218) queried on the difference between Professional Technologist from MBOT and Engineering Technologist.



President explained that there are two (2) relevant Acts on this matter; one from the Board of Engineers, Malaysia (BEM) — Registration of Engineers Act 1967 (revised 2015) (REA) to include engineering technologists and engineering technicians while the other was the Malaysia Board of Technology (MBOT) for technologists and technicians which is parked under the Ministry of Science, Technology and Innovation (MOSTI).

The AGM was further informed that engineering technologists and engineering technicians with recognised qualifications are eligible to register with BEM whereas graduates with non-engineering qualifications are eligible to register with the Malaysia Board of Technology (MBOT).

5.12.2. Ir. Lim Chiau Wu (M15583) suggested that apart from BOMBA, IEM should list more Authorities in the "Authorities Having Jurisdiction (AHJ)" page such as TNB, SPAN, Suruhanjaya Tenaga etc in the IEM web portal.

President noted the suggestion and would look into publishing more guidelines apart from the Testing and Commissioning of Fire Protective System as earlier mentioned in his report in the near future.

5.12.3 Ir. Sundraraj a/l A. Krishnasamy (F07933) suggested that the roles of the IEM representatives serving in the Board of Engineers, Malaysia (BEM) should also be mentioned in the Honorary Secretary's report.

The President took note of the suggestion.

5.12.4 Ir. Murthy a/I Ramarao (M42456) queried whether there was any measures taken by IEM to help engineers whose employment had been affected by the COVID-19 pandemic.

In response to the question, the AGM was informed that IEM circulated four (4) surveys to the IEM members concerning their well-being during the pandemic. The results had been published in the Circular No. 18. It was noted that approximately 23% of the IEM members had been affected financially by the COVID-19 pandemic.

In view of this, IEM had taken the initiative to compile the feedback received and forwarded to the government via written communication as well as during the meeting discussion. Amongst the proposals forwarded to the government were, to create more projects for the engineers, provide financial aides such as free internet access for attending online meetings as well as joining various training webinars for upskilling and re-skilling. In addition to this, IEM had also proposed and written to the government to raise the threshold for the wage subsidy programme to RM4,000 for the engineers.

Apart from this, the AGM was also informed that the Job Gallery section of the IEM web portal would enable the employers who were looking for engineers to post their advertisement in the said section and vice versa for the engineers looking for jobs could also view the Job Gallery for job vacancies or send their resumes to be posted in the IEM Resume Bank.

5.12.5 Ir. Dr. Jayaseelan Nadarajah (F14445) queried on how IEM would identify whether a life-member had passed away and would the member's record continue to be part of the statistics.

The President explained that IEM would normally receive information from the next of kin of the deceased via email or call with regard to the passing of a member. Apart from this, IEM Secretariat would also go through the newspaper's obituary section to check whether the person was an IEM member. Once a confirmation had been received, the member's name would be removed from IEM's active membership database.

5.12.6 Sdr. Ooi Wei Chien (S108160) enquired on how he should go about contributing to IEM as a graduate member.

President informed the member that he could volunteer to join the Young Engineers Section (YES) as they do conduct activities that would benefit the members. In addition, the member could also apply to be an ASEAN Associate Engineer as this would expose him to other ASEAN countries.

Since there were no further comments or questions via online and from Council members in the auditorium, YBhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik (HF09157) proposed that the Annual Report be adopted. The motion was seconded by YBhg. Dato' Ir. Ahmad Murad bin Omar (F04741).



6.0 ACCOUNTS FOR THE YEAR ENDED 31 DECEMBER 2020

The President then invited the Honorary Treasurer, Ir. Chen Harn Shean to present the financial statements for The Institution of Engineers, Malaysia for the period 1st January 2020 to 31st December 2020. Ir. Chen Harn Shean informed the AGM that the accounts presented would be from pages 143 to 174.

6.1 The Honorary Treasurer informed the AGM that the financial statements presented comprised of three (3) sets of accounts that is those of IEM, IEM Training Centre Sdn Bhd and IEM Academy Sdn Bhd. It was noted that the financial statements did not include the Branch accounts. The amalgamation of accounts of all Branches were presented separately on pages 173 – 174.

The AGM was also informed that the columns denoted by "Group" refers to the consolidated accounts of IEM, IEM Training Centre and IEM Academy.

- 6.2 The Honorary Treasurer reported that the total income for 2020 was approximately RM4,960,180, a slight decrease of 1.08% compared to 2019 which was RM5,014,556. The AGM was informed that based on the revised budget approved in June 2020, the total income was expected at RM3,937,789 of which the actual performance achieved was 26% better.
- 6.3 The Honorary Treasurer further reported that there was a drop of 4.0% on the amount of the annual subscriptions collected that was 87% in 2020 compared to 91% in 2019.

It was noted that based on the revised budget for 2020 approved by Excomm in June 2020, collection of annual subscription for 2020 was anticipated to be RM2,650,000; performance was better than the revised budget by 11%.

- Based on the comparison of income, the Honorary Treasurer further informed that there was an increase of 10% in the rental income, 40% increase in other miscellaneous income and a 240% increase in arbitration levy. However, there was a drop of 33.8%, 19%, and 21% in Fixed Deposit interest income, credit card commission and Institutional services income respectively.
- 6.5 The Honorary Treasurer further reported that the total expenses for 2020 was RM4,983,593, a reduction of 3.6% compared to 2019 which was RM5,170,734. The AGM noted that the expenses projected in the revised budget was RM5,100,303 indicating a savings of 2.4%.

The main contributors to the expenses the personnel emoluments (49%), building maintenance (22%), administrative expenses (13%), Branch subsidies (10.6%), subscription fee written-off (3%), depreciation of equipment (2%) and intersociety activities (0.4%).

The AGM also noted that the savings on the expenses were mainly on the administrative portion such as on the mailing services, office printings and stationery, postage and accountancy services.

The AGM was informed that some of the Committees did not perform as expected such as for Activities, there were no golf tournaments and IEM annual dinner organised and also for the Standing Committee on Admissions and Practical Training where not much collection for the CPD applications were received.

The Honorary Treasurer also reported that for income from TDs/ SIGs /Sections, in the revised budget, it was projected as RM100,000. However, due to the success of the webinars, total income generated was RM181,583, which was 82% higher.

6.7 The overall performance of the Institution was a deficit of RM23,414 for 2020 compared to RM212,933 in 2019. This was considered a significant improvement compared to the year 2019.

With regard to the performance of the subsidiaries, the AGM was informed that IEM Training Centre gained a profit of RM975,422 mainly due to WTC2020 whereas the profit generated by IEM Academy Sdn Bhd was RM115,880 also mainly due to the services rendered to organise WTC2020.

The AGM noted that some of the Branches had surplus income such as Kedah/Perlis, Kelantan, Terengganu, Pahang, Melaka and Sarawak. It was further noted that the high surplus from the Sarawak Branch was due to the recognition of collection from donation for Building Fund amounting to RM555,000.



The President then thanked the Honorary Treasurer for his report and proceeded to invite questions from the members. The members who were attending online were requested click on the RAISE HAND icon should they wish to ask any question.

6.9 Questions Session – Accounts

6.9.1 Ir. Fam Yew Hin (F20926) noted the Honorary Treasurer's statement that the expenses of activities reduced due to no golf tournaments and annual dinner being organised. However, Ir. Fam commented that the two mentioned events had actually generated profits for IEM prior to 2020.

Ir. Yap Soon Hoe (F04086) suggested that the facilities at Wisma IEM was being under utilised. He commented that IEM should improve Wisma IEM to be more conducive for the members. He further added that there was a need to look at the return of investment (ROI) since IEM had spent RM200,000 for the renovation.

The President informed the AGM that there was a plan to relocate the library from Bangunan Ingenieur to the Mezzanine floor of Wisma IEM. Apart from that, there was also a proposal to engage a permanent caterer to be stationed at the D'Place. However, this proposal would only able to be carried out once the pandemic is over as there was a need for IEM to adhere to the SOPs for the time being.

The President agreed to present the suggestion to Excomm for further discussion.

As there were no further questions from the floor as well as online, Ir. Dr. Tan Chee Fai (F18343) proposed the adoption of the Financial Statements for IEM for the year ended 31 December 2020. The motion was seconded by Ir. Dr. Bhuvendhraa Rudrusamy (F26383). The AGM then adopted the Financial Statement.

7.0 EDUCATION FUND FINANCIAL STATEMENT – 31 DECEMBER 2020

The Honorary Treasurer then continued to report on the Financial Statements of the Education Fund for the year ending 31 December 2020 from page 176 to page 184.

- 7.1 The AGM was informed that donations received amounted to RM55,826 in 2020 compared to RM113,123 in 2019. This donation received included RM50,000 contributed by the Geotechnical Engineering Technical Division to set up the TT Chiam Memorial Scholarship.
- 7.2 The Honorary Treasurer reported that where expenditure was concerned, the scholarship given out in 2020 was RM53,500.
- 7.3 The AGM was also informed that the overall surplus was RM11,964 compared to RM20,721 in 2019. For the year 2020, the Education Fund had complied with the 50% Spending Rule of Inland Revenue Board (IRB) for Tax Exempt Account.
- 7.4 As for the overall financial position of the Education Fund, the AGM noted that there was a decrease of 0.1% for FD, Cash and Cash Equivalents amounting to RM1,860,218 whereas the Accumulated Fund was RM2,556,152 recording an increase of 0.5% compared to 2019.

Since there were no questions from the floor, YBhg. Dato' Ir. Dr. Ahmad Anuar bin Othman (F13148) proposed the adoption of the Education Fund financial statement for the year ended 31 December 2020 and the motion was seconded by Ir. Yap Soon Hoe (F04086). The AGM then adopted the Education Fund financial statement.

8.0 ANNOUNCEMENT OF THE RESULT of e-BALLOTING FOR COUNCIL 2021/2022 SESSION

The President informed the AGM that for the first time in IEM history, e-balloting was conducted for the Council Election - Session 2021/2022 from 1 March 2021 until 3 April 2021. The President then invited the Election Officer, YBhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul Abdullah to announce the results of the election for the session 2021/2022.



8.1 President

YBhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul Abdullah informed the AGM that Ir. Ong Ching Loon continued his second year in the office of President for Session 2021/2022 in accordance with Section 5.2 of the IEM Bylaws.

8.2 **Deputy President**

The Election Officer also informed that similar to the two-year term for the post of President, Ir. Prof. Dr. Norlida binti Buniyamin remained as Deputy President for Session 2021/2022.

8.3 Council Vacancies for Session 2021/2022

The Election Officer then informed the AGM on the various Council vacancies as follows:

- Vice President with 4 vacancies for 2 sessions
- Hon Secretary with 1 vacancy for 1 session
- Hon Treasurer with 1 vacancy for 1 session

Council Members

Chemical Rep with 1 vacancy for 3 sessions

Council Member - Ordinary Representative

• 10 vacancies for 3 sessions

8.4. Vice Presidents, Hon Secretary, Hon Treasurer and Others

The AGM was also informed that the following offices did not require balloting as there was only one candidate:

8.4.1 Office of Honorary Secretary (One (1) vacancy for session 2021/2022)

Ir. Dr. David Chuah Joon Huang was duly elected unopposed to the office of Honorary Treasurer for one (1) Session 2021/2022.

8.4.2 Office of Council Member – Chemical Representative (One (1) vacancy for 3 sessions, 2021/2022, 2022/2023, 2023/2024)

There was no nomination received for this office. Under Bylaws Section 5.11, the IEM Council at its 424th meeting held on 18 January 2021 nominated Ir. Dr. Chong Chien Hwa as the candidate for this office - Chemical Representative for three (3) Sessions for 2021/2022, 2022/2023, 2023/2024.

- 8.4.3 The Election Officer then further explained the procedure on the following offices that required balloting:
 - Vice Presidents
 - Honorary Treasurer
 - Council Members Ordinary Representatives

The Election Officer informed that emails and SMS with the link for e-ballot for the abovementioned offices which required balloting were sent to a total of 12,122 Corporate Members who were eligible to vote comprising 11,841 residing in the country and 371 residing overseas.

The email and SMS (SMS only for members residing in the country) with the e-ballot link was sent out on 1 March 2021. The closing date for submission of e-ballot was on 3 April 2021 at 10.00am where the balloting exercise will be automatically closed by the programme. The AGM was further noted that the balloting results were generated at 11.00am as there was an event – the launching of the two (2) new membership grades; Engineering Technologist and Engineering Technician held at the same time on the same day. The Election Officer then proceeded to report on the election results as follows:



8.4.4 Office of Vice President (Four (4) vacancies for 2 sessions 2021/2022 and 2022/2023)

The following four (4) candidates with the highest number of votes were duly elected to the office of Vice President for the sessions 2021/2022 and 2022/2023.

- 1. Ir. Yau Chau Fong
- 2. Ir. Mohd. Aman bin Idris
- 3. Y.Bhg. Dato' Ir. Ahmad Murad bin Omar
- 4. Ir. Chen Harn Shean

8.4.5 Office of Honorary Treasurer (One (1) vacancy for session 2021/2022)

There were five (5) nominations received for the one (1) vacancy. The candidate, Ir. Fam Yew Hin received the highest number of votes and was duly elected to the office of Honorary Treasurer for the session 2021/2022.

8.4.6 Office of Council Member – Ordinary Representative (Ten (10) vacancies for 3 sessions, 2021/2022, 2022/2023, 2023/2024)

The Election Officer proceeded to report that there were fourteen (14) nominations received and the following ten (10) candidates with the highest number of votes were duly elected to the Office of Council Member – Ordinary Representative (ten (10) vacancies for 3 sessions, 2021/2022, 2022/2023 and 2023/2024):

- 1. Ir. Dr. Siti Hawa binti Hamzah
- 2. Ir. Chen Harn Shean
- 3. Ir. Dr. Tan Chee Fai
- 4. Ir. Mah Way Sheng
- 5. Ir. Dr. Zuhaina binti Zakaria
- 6. Ir. Lee Cheng Pay
- 7. Ir. Dr. Kannan a/I M. Munisamy
- 8. Ir. Dr. Siow Chun Lim
- 9. Ir. Wong Chee Fui
- 10. Ir. Dr. Hum Yan Chai

The Election Officer then congratulated all the successful candidates.

8.4.7 The AGM was further informed that the election exercise covered a period of about five (5) months and the total cost was RM2,385.00 (cost of sending SMS) excluding IEM staff cost. This was a marked improvement from last year where the total cost was RM40,511.05.

The AGM was further informed that the total number of e-ballot links emailed out to members this year was 12,122.

The Election Officer also informed that from the number of e-ballot returned, this year was the lowest for the last 10 years. It was noted that approximately 87% of the members still did not submit their votes for the candidates nominated to represent their interests on the IEM Council. Nevertheless, the Election Officer informed that he and the Scrutineers would work with the IEM Secretariat to carry out a post-mortem and to look at ways to increase this figure in future elections.

8.4.8 The Election Officer then thanked the Scrutineers, Ir. Prof. Dr. Zainal Abidin bin Ahmad, Ir. Hj. Mohd Ali Yusoff, Ir. S. Kukanesan and Ir. Prof. Dr. Leong Wai Yie for their valuable assistance. The Election Officer also thanked the Secretariat for their full cooperation as well as the Council for their support.

The President thanked YBhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul Abdullah for his services and support for conducting the election process.

9.0 AWARDS PRESENTATION

The President then announced that as per the tradition set for the last few years, some of the awards were presented during the AGM. The Emcee then proceeded with the Awards ceremony.



9.1 Top Mentor Award 2020

The AGM was informed that the IEM Top Mentor Award was introduced in 2019 as part of IEM's recognition of the contribution by IEM mentors in the Engineering Competency Development (ECD) programme. For this award, the Mentees would submit their nominations of their Mentor. The following were Mentors who had been nominated by their Mentees:

No.	Name	Membership No	Discipline
1	Ir. Dr. Mui Kai Yin	M18773	Mechanical
2	Ir. Chuan Rhun Riang	M26229	Electrical
3	Ir. Dr. Eow John Son	M23840	Chemical
4	Ir. Chan Chor Laup	M9238	Mechanical
5	Ir. Dr. Edwin Jong Nyon Tchan	F18877	Metallurgy

Due to the need for physical distancing and restriction on inter-state travel, the award would be sent to the Mentors separately.

9.2 Tan Sri Ir. Hj. Yusoff Ibrahim Final Year Project 2020

The AGM noted that the winner of the Tan Sri Ir. Hj. Yusoff Ibrahim Final Year Project 2020 was Martin Mo Shuen Ching from Curtin University Malaysia with the topic "A Methodology to Improve Production From Unconventional Reservoirs Through Stimulation".

The AGM also noted that the 3rd place winner was Shams Khaled Elhosseny Ghazy Essawy from University of Notthingham Malaysia whereas the 2nd place winner was Jason Chia from Multimedia University.

The following received the consolation prizes:

- 1. Chew Yuin Yee from Universiti Tunku Abdul Rahman (UTAR)
- 2. Koay Hsien Wern from University of Notthingham Malaysia
- 3. Oon Chee Yee from Monash University Malaysia

9.3 IEM Young Engineers Award 2021

The emcee then invited the President to the stage to present the IEM Young Engineers Award 2021 to the winner, Ir. Dr. Lai Khin Wee.

10.0 RETIRING COUNCIL MEMBERS

10.1 The Emcee then proceeded to read out the names of the Council members who would be retiring for the session.

The President then presented tokens of appreciation to the retiring Council Members who were retiring from office for the session 2020/2021:

- 1. Y.Bhg. Dato' Ir. Nor Hisham Mohd Ghazali
- 2. Ir. Steven Toh Chin Kok
- 3. Ir. Dr. Jeyanthi Ramasamy
- 4. Ir. Dr. Lee Yun Fook
- 5. Ir. Mohmad Asari bin Daud
- 6. Ir. Dr. Lai Khin Wee
- 7. Ir. Simon Yeong Chin Chow
- 8. Ir. Dr. Oh Seong Por
- The AGM was informed that the following retiring Council members were not able to be present to collect the tokens due to inter-state travel restriction and other prior commitment. However, the tokens would be delivered to them.

- 1. Y.Bhg. Dato' Ir. Dr. Gue See Sew
- 2. Ir. Dr. Wang Hong Kok
- 3. Y.Bhg. Dato' Ir. Fakharazi bin Wahijan
- 4. Ir. Dr. Lee Tin Sin
- 5. Ir. Yasotha Ramanchandran Chetty
- 6. Ir. Yim Hon Wa
- 7. Y.Bhg. Dato' Seri Ir. Dr. Zaini bin Ujang
- 8. Ir. Yam Teong Sian
- 9. Ir. Yau Ann Nian
- 10. Ir. Abdullah Zawawi bin Mohamad Noor
- 11. Ir. Haidel Heli

11.0 PAST PRESIDENTS

The President then informed that Council had invited the following Past Presidents to serve and they have all consented and accepted the invitation. The Past Presidents who had accepted the invitation were:

- YBhg. Academician Tan Sri Datuk Ir. (Dr.) Hj. Ahmad Zaidee bin Laidin
- YBhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul bin Abdullah
- YBhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik
- YBhg. Dato' Ir. Lim Chow Hock
- Ir. Dr. Tan Yean Chin

President then thanked all other Past Presidents for their contribution and unwavering support in the past sessions and hope they will continue to support and guide IEM.

12.0 ELECTION OF HONORARY INTERNAL AUDITORS

The President then proceeded to call for nominations for the position of Honorary Internal Auditors. He further informed the AGM that the current internal auditors were Ir. Sreedaran Raman (M38681) and Ir. Yau Chau Fong (F20215). However, it was noted that Ir. Yau Chau Fong had been elected as a Vice President and would not be able to serve as Internal Auditor. In view of this, there was a need to nominate the Honorary Internal Auditors for Session 2021/2022.

The members were then advised to click on the RAISE HAND icon should they wish to nominate the two (2) internal auditors.

The following were nominated;

Ca	ndidate	Proposer	Seconder
1.	Steven Toh Chin Kok (M21175)	Ir. Prof. Dr. Leong Wai Yie (F60691)	Ir. Wong Chee Fui (F20903)
2.	Ir. Dr. Lee Yun Fook (F38707)	Ir. Chen Harn Shean (F23894)	Ir. Yau Chau Fong (F20215)
3.	Ir. Dr. Wang Hong Kok (F02364)	Ir. Prof. Dr. Jeffrey Chiang Choong Luin (F20286)	Ir. Mohd Aman bin Hj. Idris (F02176)
4.	Ir. Sreedaran Raman (M38681)	Y.Bhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul bin Abdullah (HF01691)	Ir. Dr. Jeyanthi Ramasamy (M29131)

Ir. Ng Yong Kong (F05043) proposed the nomination to be closed and the motion was seconded by Ir. Dr. Bhuvendhraa Rudrusamy (F26383).

Voting was done via Survey Monkey and the AGM approved the election of Ir. Steven Toh Chin Kok (M21175) and Ir. Sreedaran Raman (M38681) as the Honorary Internal Auditors for Session 2021/2022.

13.0 PRESIDENTIAL ADDRESS FOR THE SESSION 2020/2021

The Emcee then invited the President to present the Presidential Address 2021 entitled "IEM CONNECTS"



14.0 ADJOURNMENT OF 62nd ANNUAL GENERAL MEETING 2021

The President thanked the members who attended the AGM physically as well as virtual.

The President then declared the 62nd Annual General Meeting adjourned at 11.46 am.

Ir. Ong Ching Loon Yang DiPertua

Ir. Assoc. Prof. Dr. David Chuah Joon Huang Setiausaha Kehormat





ANNUAL GENERAL MEETING ATTENDANCE LIST Senarai Ahli Yang Hadir ke Mesyuarat Agung Tahunan



No.	Name	Membership No.
	HONORARY FELLOW	
1	Academician Tan Sri Datuk Ir. (Dr.) Hj. Ahmad Zaidee bin Laidin	01019
2	Dato' Ir. Dr. Gue See Sew	03975
3	Dato' Ir. Lim Chow Hock	02531
4	Dato' Paduka Ir. Hj. Prof. (Dr.) Keizrul Abdullah @ Lim Teik Keat	01691
5	Ir. Chen Kim Kieong	05128
6	Ir. Chong Pick Eng	01214
7	Ir. Dr. Ooi Teik Aun	01249
8	Ir. Dr. Tan Yean Chin	11712
	Y.Bhg. Academician Tan Sri Ir. Prof. Dr. Chuah	
9	Hean Teik	09157
	FELLOW	
10	Dato' Ir. Ahmad Murad bin Omar	04741
11	Dato' Ir. Dr. Ahmad Anuar bin Othman	13148
12	Dato' Ir. Foong Choy Chye	03799
13	Dato' Ir. Ho Cheong Sing	03445
14	Dato' Ir. Nor Hisham bin Mohd Ghazali	12458
15	Dato' Prof. Ir. Dr. Mashkuri bin Haji Yaacob	09574
16	Datuk Ir. Hj. Mohd Hassin @ Mohd Hashim bin Daud	10215
17	Dr. Md. Azlin bin Md. Said	14357
18	Dr. Tan Kuang Leong	13221
19	Ir. Abdul Razak bin Yakob	59192
20	Ir. Ahmad Kamal bin Kunji	02829
21	Ir. Ahmad Nazari bin Ashari	06788
22	Ir. Ahmad Rafidi bin Mohayiddin	22228
23	Ir. Assoc. Prof. Dr. Chuah Joon Huang	57551
24	Ir. Bernard Lim Kee Weng	18809
25	Ir. Chen Harn Shean	23894
26	Ir. Chong Chew Fan	25416
27	Ir. Chong Chi Koong	18794
28	Ir. Chong Sun Fatt	04977
29	Ir. Dr. Bhuvendhraa Rudrusamy	26383
30	Ir. Dr. Jayaseelan Nadarajah	14445
31	Ir. Dr. Lee Tin Sin	27985
32	Ir. Dr. Ng Soon Ching	30662
33	Ir. Dr. Oh Seong Por	28476
34	Ir. Dr. Siti Hawa binti Hamzah	08457
35	Ir. Dr. Teo Fang Yenn	26373
36	Ir. Dr. Aminuddin bin Mohd Baki	15137
37	Ir. Dr. Jeyanthi Ramasamy	29131
38	Ir. Dr. Lai Khin Wee	54322
39	Ir. Dr. Lee Yun Fook	38707
40	Ir. Ellias bin Saidin	10100
41	Ir. Fam Yew Hin	20926
42	Ir. Goh Soon Boon	06751
43	Ir. Gopal Narian Kutty	11291
44	Ir. Gunasagaran a/l Kristnan	08216
45	Ir. Han Seng Kong	13421
46	Ir. Hj. Mohd Radzi bin Salleh	20112
47	Ir. Hj. Mohd Aman bin Haji Idris	02176
48	Ir. Khoo Chee Min	19556
49	Ir. Lai Kong Phooi	09917
50	Ir. Lai Sze Ching	04687
51	Ir. Lee Boon Chong	08092
52	Ir. Leong Meng Chow	02811
53	Ir. Li Thang Fai	15803

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No.	Name	Membership No.
54	Ir. Lim Chien Chiang	05549
55	Ir. Lim Tai Eng	04314
56	Ir. Lock Chin Pong	05036
57	Ir. Mohd Azha bin Abu Samah	16254
58	Ir. Mohd Khir bin Muhammad	18791
59	Ir. Neo Boon Kheng	16340
60	Ir. Ng Sin Chie	06697
61	Ir. Ng Yong Kong	05043
62	Ir. Ong Ching Loon	11938
63	Ir. Ooi Kah Huat	03899
64	Ir. Prof. Dr. Foo Chwan Yee	22445
65	Ir. Prof. Dr. Chiang Choong Luin	20286
66	Ir. Prof. Dr. Leong Wai Yie	60691
67	Ir. Prof. Dr. Norlida binti Buniyamin	13746
68	Ir. Prof. Dr. Ruslan bin Hassan	03541
69	Ir. Prof. Dr. Tan Chee Fai	18343
70	Ir. Puvanesan a/l Mariappan	36800
71	Ir. Qua Kiat Seng	03813
72	Ir. Santha Kumaran a/I Erusan @ Krishnan	18975
73	Ir. Sharifah Azlina binti Raja Kamal Pasmah	13151
74	Ir. Sim Hui Kheng	19167
75	Ir. Sundraraj a/l A. Krishnasamy	07933
76	Ir. Tan Keng Hong	02699
77	Ir. Tang Chok Khing	07369
78	Ir. Tiong Choong Han	20890
79	Ir. Wong Chee Fui	20903
80	Ir. Yam Teong Sian	05613
81	Ir. Yap Kok Ming	03711
82	Ir. Yap Soon Hoe	04086
83	Ir. Yau Chau Fong	20215
84	Ir. Yeong Chin Chow	18660
85	Mr. Lim Phaik Leng	24416
00	SENIOR MEMBER	24410
86	Ir. Dr. Kamarul Anuar bin Mohamad Kamar	26777
87	Ir. Dr. Lee Choo Yong	29738
88	Ir. Dr. Zarabizan bin Zakaria	-
		48130
89	Ir. Mau Kwong Ching @ Moo Kwang Ching	02014
90	Ir. Syed Fadzil bin Syed Mohamed	21672
91	Ir. Taofig bin Samat	26431
92	Ir. Tham Kim Swee	14468
02	MEMBER	F6902
93	Dato' Ir. Mohd Azmi bin Ismail	56803
94	Dato' Ir. Mohd Zahari bin Mansor	05242
95	Dato' Ir. Tan Yew Thong	02506
96	Dr. Chin Siew Choo	61999
97	Dr. Eow John Son	23840
98	Dr. Gan Jet Hong, Melvin	114674
99	Dr. Goh Chien Chung	18081
100	Dr. Leong Kah Hon	105663
101	Dr. Ngien Su Kong	41069
102	Dr. Sariah Abang	102059
103	Dr. Yeoh Hak Koon	15203
104	Ir. Abd. Rahman bin Kadir	18298
105	Ir. Abdul Hannan bin Ashaari	16523
106	Ir. Abdul Hijan bin Abdul Halim	86341
107	Ir. Abdul Kalthani bin Abdul Ghani	05204
108	Ir. Abdul Wahid bin Paijo	18631



No.	Name	Membership No.
109	Ir. Abdullah bin Ismail	07446
110	Ir. Adnan bin Ghazali	07498
111	Ir. Ahmad Danial Ridwan bin Mohamad Bolhair	90301
112	Ir. Ahmad Danial Zulhilmi bin Ahmad Nazari	50216
113	Ir. Ahmad Roslan bin Bakar	11056
114	Ir. Al-Khairi bin Mohd Daud	14670
115	Ir. Ang Lee Huat	03016
116	Ir. Ang Mei Yu	06981
117	Ir. Aruljothy Pahavan	17449
118	Ir. Azrol bin Jailani	28618
119	Ir. Chai Ko Foong	23248
120	Ir. Chai Ko Het	08223
121	Ir. Chai Peng Mun, William	17977
122	Ir. Chai Seong Wai	26918
123	Ir. Chai Siew Wun	49890
124	Ir. Chan Fook Wah	04112
125	Ir. Chan Kah Hoe	06867
126	Ir. Chan Khung Lei	50674
127	Ir. Chan Pui Khuan	34867
128	Ir. Chan Swee Loon	03762
129	Ir. Chan Wai Choong	30558
130	Ir. Chang Chew Leong	15783
131	Ir. Cheang Seit Keong	22717
132	Ir. Chee Tai Hoe	15959
133	Ir. Chen Cho' Lin, Joseph	104306
134	Ir. Cheok Ka Hiang	07185
135	Ir. Cheong Choong Fiee	08370
136	Ir. Cheong Kam Choon	13757
137	Ir. Chew Gim Cheng	02911
138	Ir. Chew Leak Yan	16406
139	Ir. Chieng Sie Yii, Clarence	12010
140	Ir. Chin Chee Kheong	14115
141	Ir. Chin Min Fong, Cornelius	79381
142	Ir. Chin Shyi Her	24341
143	Ir. Chin Yen Wei @ Tan Yen Wei	84918
144	Ir. Chong Chai Thiam	49218
145	Ir. Chong Chee Yen	18782
146	Ir. Chong Chee Yong	06854
147	Ir. Chong Chien Hwa	26348
148	Ir. Chong Chuan Yee	23484
149	Ir. Chong Tjun Yie	52531
150	Ir. Choo Kok Wah	43177
151	Ir. Chua Eng Thua	14540
152	Ir. Chua Eng Thye	04948
153	Ir. Chua Goeh Kin	19175
154	Ir. Chung Hock Yew	10260
155	Ir. Dr. Ahmad Syahrin bin Hj. Mohd Idris	54286
156	Ir. Dr. Aidil bin Chee Tahir	18254
157	Ir. Dr. Aidil bin Chee Tahir	22249
158	Ir. Dr. Chan Swee Huat	16205
159	Ir. Dr. Gue Chang Shin	20876
160	Ir. Dr. Han Khee Kwong Ir. Dr. Lai Mun Kou	12711
161		66812
162	Ir. Dr. Lebelsong Hoong	24919
163	Ir. Dr. Lohgheswary a/p Nagarethinam	88784
164	Ir. Dr. Mohd Azlan bin Abu	38364
165	Ir. Dr. Mui Kai Yin	18773
166	Ir. Dr. Wang Hask Tra @ Farrah Wang	34906
167	Ir. Dr. Wong Hock Tze @ Farrah Wong	105580
168	Ir. Dr. Hum Yan Chai	61159
169	Ir. Dr. Lau Hieng Ho	18741

N.	Manage	Tax and tax at
No.	Name	Membership No.
170	Ir. Dr. Liew San Chuin	25519
171	Ir. Dr. Ooi Heong Beng	01133
172	Ir. Dr. Siow Chun Lim	79391
173	Ir. Dr. Tang Khai Hing	06759
174	Ir. Dr. Zuhaina binti Zakaria	20105
175	Ir. Fauzul Azam bin Aziz	42606
176	Ir. Fong Chong Yit	25644
177	Ir. Foo Kai Jaan	22304
178	Ir. Foo Yu Hwa	03659
179	Ir. Francis Xavier Jacob	09765
180	Ir. Fred Devakumar a/l Stephen Navaratnam	04758
181	Ir. Gan Kin Choon Ir. Gan Tian Eng	08897
183	Ir. Goh Kok Seng	87394
184	Ir. Goh Sheng Pun	18185
185	Ir. Han King Guan	07866
186	Ir. Hardi bin Dolah	51635
187	Ir. Haren a/l Seganathirajah	10632
188	Ir. Harzah Masni binti Ramli	46807
189	Ir. Hiew Lee Ching	12270
190	Ir. Hii Ee Sing, Michael	04192
191	Ir. Hj. Ahmad Madzlan bin Haji Zahari	04340
192	Ir. Ho Choon Kwang	17178
193	Ir. Ho Nyuk Shiong	36271
194	Ir. Ho Oi Quet	02246
195	Ir. Ho Wah Foo	14602
196	Ir. Ho Wan Li	21899
197	Ir. Hooi Wing Chuen	19934
198	Ir. Hoong Farn Cheong, Alvin	30798
199	Ir. Ismail bin Abdullah	18041
200	Ir. Jagjeet Singh Sidhu a/l Charan Singh	07146
201	Ir. Khor Chong Liang	90016
202	Ir. Khor Hai Seng	05684
203	Ir. Khor Kong Chong	13301
204	Ir. Khor Peng Seong	12709
205	Ir. Koh Wei Sang	16432
206	Ir. Koh Yong Fatt	06630
207	Ir. Kong Chee Khiong	05232
208	Ir. Kong Yik Khai	79266
209	Ir. Kor Fong Yong	03877
210	Ir. Ku Kok Hou	29195
211	Ir. Ku Ping Hee	09180
212	Ir. Kuak Chai Weng	28915
213	Ir. Kunaseelan Packianathan	02157
214	Ir. Lai Chang Onn	16698
215	Ir. Lai Tek Hap	39226
216	Ir. Lalchand a/l Gulabrai	17881
217	Ir. Lau Eng Kee	21721
218	Ir. Lau How Siong	13960
219	Ir. Lau Lee Yeng	07826
220	Ir. Lau Tai Onn	03704
221	Ir. Lau Win Sang	04323
222	Ir. Law Soon Guan	62055
223	Ir. Lee Cheng Pay	36663
224	Ir. Lee Choong Wei	27549
225	Ir. Lee Chow Khweng	06025
226	Ir. Lee Derk Chyuan	100748
227	Ir. Lee Han Chee	12016
228	Ir. Lee Koi Chin	05617
229	Ir. Lee Kok Chong	18283
230	Ir. Lee Kuan Kam	13793



No. Name Membership No. 231 Ir. Lee Mun Poh 05443 232 Ir. Lee Sun Kaw 12718 235 Ir. Lee Se K Chong 06329 236 Ir. Lee Sin Kaw 12718 235 Ir. Leong Chee Tuck 09665 236 Ir. Leong Cheng Thim 03052 238 Ir. Lien Gheng Heng 05483 239 Ir. Lian Hin Seong 99503 240 Ir. Liew Fook Klew, Frankie 04677 241 Ir. Liew Khee Leong @ Lam Khee Leong 14505 243 Ir. Liew Yang Oon, John 06933 244 Ir. Lim Boon Chye 10490 245 Ir. Lim Boon Peng 03263 246 Ir. Lim Chee Peng 04530 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Klan Tong 15583 249 Ir. Lim Klan Tong 16038 250 Ir. Lim Kim Siong 41496 251 Ir. Lim Kim Siong 41496 252 Ir. Lim		Ι.,	
232 Ir. Lee Sek Chong 06329 233 Ir. Lee Sein Kaw 12718 235 Ir. Lee Wee Chu 06329 236 Ir. Leong Chee Tuck 09665 237 Ir. Leong Chee Tuck 09665 238 Ir. Leong Cheng Thim 03052 238 Ir. Leong Kong Heng 05483 239 Ir. Liae Chi Kuang 93755 240 Ir. Liew Fook Kiew, Frankie 04677 241 Ir. Liew Fook Kiew, Frankie 04677 242 Ir. Liew Yang Oon, John 06936 243 Ir. Lim Baa 03263 244 Ir. Lim Boon Chye 10490 245 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Klau 15583 249 Ir. Lim Kim Siong 16038 250 Ir. Lim Kim Siong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten			
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17. Lee Sin Kaw 12718 235 Ir. Lee Wee Chu 06369 1r. Leong Chee Tuck 09665 236 Ir. Leong Chee Tuck 09665 237 Ir. Leong Cheng Thim 03052 238 Ir. Leong Cheng Thim 03052 239 Ir. Leong Kong Heng 05483 239 Ir. Lian Hin Seong 99503 240 Ir. Liew Fook Kiew, Frankie 04677 241 Ir. Liew Fook Kiew, Frankie 04677 242 Ir. Liew Hoek Leong @ Lam Khee Leong 14505 243 Ir. Liew Wang Oon, John 068936 244 Ir. Lim Boon Chye 04900 246 Ir. Lim Boon Chye 04900 246 Ir. Lim Boon Chye 04530 247 Ir. Lim Ghee Peng 04530 248 Ir. Lim Ghee Peng 04530 248 Ir. Lim Ghee Peng 04530 249 Ir. Lim Kian Tong 16038 250 Ir. Lim Kian Tong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Tong 16038 253 Ir. Lim Kim Tong 06752 254 Ir. Lim Tian Lu 12778 255 Ir. Lim Wei Khong 04777 256 Ir. Lim Sze Min, Edwin 09035 257 Ir. Lim Sze Min, Edwin 09035 257 Ir. Lim Ghee Kin 05752 24061 258 Ir. Loo Chee Kin 05752 24061 259 Ir. Loo Chee Kin 05752 259 Ir. Loo Moon Whai 02274 261 Ir. Mah Siew Kien 06450 24061 261 Ir. Mah Way Sheng 06450 27918 262 Ir. Mah Siew Kien 06450 27918			+
235 Ir. Leo Wee Chu 06369 236 Ir. Leong Chee Tuck 09665 237 Ir. Leong Cheng Thim 03052 238 Ir. Leong Kong Heng 05483 239 Ir. Lian Hin Seong 99503 240 Ir. Liew Kok Kiew, Frankie 04677 241 Ir. Liew Khee Leong @ Lam Khee Leong 14505 242 Ir. Liew Yang Oon, John 06936 243 Ir. Lim Bah 03263 244 Ir. Lim Boon Chye 10490 245 Ir. Lim Chee Peng 04530 246 Ir. Lim Chee Peng 04530 247 Ir. Lim Khe Cheang 16338 248 Ir. Lim Kim Tong 16038 249 Ir. Lim Kim Tong 16038 250 Ir. Lim Kim Ten 24468 251 Ir. Lim Kim Ten 24468 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Kim Ten 24468 254 Ir. Lim Wik Khong 04777 255 Ir. Lim Wik Khong	233	Ir. Lee Sek Chong	06329
236 Ir. Leong Chen Truck 09665 237 Ir. Leong Cheng Thim 03052 238 Ir. Leong Kong Heng 05483 239 Ir. Liao Chi Kuang 03755 240 Ir. Liae Fook Kiew, Frankie 04677 241 Ir. Liew Fook Kiew, Frankie 04677 242 Ir. Liew Ang Oon, John 06936 243 Ir. Lim Boon Chye 10490 244 Ir. Lim Boon Chye 10490 245 Ir. Lim Boon Peng 03287 247 Ir. Lim Chieu Wu 15583 248 Ir. Lim Chiau Wu 15583 250 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Kim Ten 24468 253 Ir. Lim Se Min, Edwin 06752 255 Ir. Lim Se Min, Edwin 09035 256 Ir. Lim Se King 43746 257 Ir. Ling Tieng Kooi 24061 258 Ir. Lo	234	Ir. Lee Sin Kaw	12718
237 Ir. Leong Cheng Thim 03052 238 Ir. Leong Kong Heng 05483 239 Ir. Lian Hin Seong 99503 240 Ir. Liac Chi Kuang 03755 241 Ir. Liew Fook Kiew, Frankie 04677 242 Ir. Liew Wang Oon, John 06936 243 Ir. Lim Boon Chye 10490 244 Ir. Lim Boon Chye 10490 245 Ir. Lim Boon Chye 10490 246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Kim Song 11583 249 Ir. Lim Kim Tong 16038 250 Ir. Lim Kim Siong 41496 251 Ir. Lim Kim Tong 16038 252 Ir. Lim Kim Ton 24468 253 Ir. Lim Kim Ton 24468 253 Ir. Lim Kim Ton 12778 255 Ir. Lim Wei Khong 47777 256 Ir. Lim Sze Min, Edwin 90935 257 Ir. Lin Sze Min, Edwin<	235	Ir. Lee Wee Chu	06369
238 Ir. Leong Kong Heng 05483 239 Ir. Lian Hin Seong 99503 240 Ir. Liew Fook Kiew, Frankie 04677 241 Ir. Liew Fook Kiew, Frankie 04677 242 Ir. Liew Whee Leong @ Lam Khee Leong 14505 243 Ir. Liew Wang Oon, John 06936 244 Ir. Lim Boon Chye 10490 245 Ir. Lim Boon Chye 10490 246 Ir. Lim Chee Peng 04530 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Kim Tong 16038 250 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Ten 24468 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Sim Lu 12778 255 Ir. Lim Sim Lu 12778 255 Ir. Lim Sim Chong 04777 256 Ir. Lim Sim Chong 04777 256 Ir. Lim Sim Chong 04777 257 Ir. Lim	236	Ir. Leong Chee Tuck	09665
239 Ir. Lian Hin Seong 99503 240 Ir. Liew Fook Kiew, Frankie 04677 241 Ir. Liew Khee Leong 14505 242 Ir. Liew Khee Leong 14505 243 Ir. Liew Yang Oon, John 06936 244 Ir. Lim Bah 03263 245 Ir. Lim Boon Chye 10490 246 Ir. Lim Chee Peng 04530 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15883 249 Ir. Lim Kim Tong 16038 250 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Ten 24468 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Kim Ten 24468 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Kim Ten 24468 255 Ir. Lim Wei Khong 04777 256 Ir. Lim Tian Lu 12778 257 Ir. Lim Sze Min, Edwin 99035 257 Ir. Lim Sye Kien 664	237	Ir. Leong Cheng Thim	03052
240 Ir. Liao Chi Kuang 03755 241 Ir. Liew Fook Kiew, Frankie 04677 242 Ir. Liew Khee Leong ® Lam Khee Leong 14505 243 Ir. Lim Ah Bah 03263 244 Ir. Lim Boon Chye 10490 246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Kian Tong 16038 250 Ir. Lim Kim Siong 41496 251 Ir. Lim Kim Tong 16038 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Kim Ten 24468 254 Ir. Lim Wei Khong 04777 255 Ir. Lim Sze Min, Edwin 09035 257 Ir. Lin Sze Min, Edwin 09035 258 Ir. Loo Chee Kin 15863 259 Ir. Loo Sook Ling 43746 259 Ir. Loo Qai Shien 87137 260 Ir. Mah Siew Kien 66450 261 Ir. Mah Way	238	Ir. Leong Kong Heng	05483
241 Ir. Liew Fook Kiew, Frankie 04677 242 Ir. Liew Khee Leong @ Lam Khee Leong 14505 243 Ir. Liew Yang Oon, John 06936 244 Ir. Lim Bon Chye 10490 245 Ir. Lim Boon Chye 10490 246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Kim Tong 16038 250 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Tong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Kim Ten 24468 253 Ir. Lim Wei Khong 04777 255 Ir. Lim Wei Khong 04777 255 Ir. Lim Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loo Chee Kin 15863 259 Ir. Loo Oka Shien 87137 260 Ir. Loo Qai Shien 87137 262 Ir. Mah W	239	Ir. Lian Hin Seong	99503
242 Ir. Liew Khee Leong @ Lam Khee Leong 14505 243 Ir. Liew Yang Oon, John 06936 244 Ir. Lim Ah Bah 03263 245 Ir. Lim Boon Chye 10490 246 Ir. Lim Choe Peng 04530 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Kim Tong 16038 250 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Tong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Kim Ten 24468 253 Ir. Lim Wei Khong 04777 255 Ir. Lim Wei Khong 04777 256 Ir. Lim Stee Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Lim Stee Kin 15863 259 Ir. Loo Ohoo Whai 02274 260 Ir. Loo Gai Shien 87137 261 Ir. Mah Way Sheng 30994 263 Ir. Mah Way Sheng <td>240</td> <td>Ir. Liao Chi Kuang</td> <td>03755</td>	240	Ir. Liao Chi Kuang	03755
243 Ir. Liew Yang Oon, John 06936 244 Ir. Lim Ah Bah 03263 245 Ir. Lim Boon Chye 10490 246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Hok Lian 13396 250 Ir. Lim Kim Siong 41496 251 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Tong 16038 252 Ir. Lim Kim Tong 41496 252 Ir. Lim Kim Ton 24468 253 Ir. Lim Wei Khong 04777 255 Ir. Lim Wei Khong 04777 256 Ir. Lin Sze Min, Edwin 09035 257 Ir. Lin Grieng Kooi 24061 258 Ir. Loo Sook Ling 43746 259 Ir. Loo Chee Kin 15863 260 Ir. Loo Qai Shien 87137 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Way Sheng 30694	241	Ir. Liew Fook Kiew, Frankie	04677
244 Ir. Lim Ah Bah 03263 245 Ir. Lim Boon Chye 10490 246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Kian Tong 16038 250 Ir. Lim Kim Siong 41496 251 Ir. Lim Kim Tong 16038 251 Ir. Lim Kim Tong 41496 252 Ir. Lim Kim Ton 24468 253 Ir. Lim Kim Ton 24468 253 Ir. Lim Lik 06752 254 Ir. Lim Wei Khong 04777 255 Ir. Lin Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loo Cocke Kin 15863 259 Ir. Loo Good Ling 43746 259 Ir. Loo Qai Shien 87137 260 Ir. Loo Qai Shien 87137 261 Ir. Mah Way Sheng 30694 262 Ir. Mah Way Sheng 30694 <	242	Ir. Liew Khee Leong @ Lam Khee Leong	14505
245 Ir. Lim Boon Chye 10490 246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chee Peng 04530 248 Ir. Lim Cheau Wu 15583 249 Ir. Lim Kian Tong 16038 250 Ir. Lim Kim Tong 41496 251 Ir. Lim Kim Ten 24468 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Lik 06752 254 Ir. Lim Wei Khong 04777 255 Ir. Lim Wei Khong 04777 256 Ir. Lim Tieng Kooi 24061 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loo Sook Ling 43746 259 Ir. Loo Ohoon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mak Chin Onn 28049 264 Ir. Mak Chin Onn 28049 265 Ir. Mej. (B) Michael Chan 03276 <td>243</td> <td>Ir. Liew Yang Oon, John</td> <td>06936</td>	243	Ir. Liew Yang Oon, John	06936
246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Kim Chiau Wu 15583 250 Ir. Lim Kim Siong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 252 Ir. Lim Lik 06752 254 Ir. Lim Tian Lu 12778 255 Ir. Lim Wei Khong 04777 256 Ir. Lim Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loh Sook Ling 43746 259 Ir. Loo Chee Kin 15863 260 Ir. Loo Woon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Mid. Yushairi Kamarul Effendy bin Mohd 27918 266 Ir. Mol. Nujid bin I	244	Ir. Lim Ah Bah	03263
246 Ir. Lim Boon Peng 03287 247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Kim Chiau Wu 15583 250 Ir. Lim Kim Siong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 252 Ir. Lim Lik 06752 254 Ir. Lim Tian Lu 12778 255 Ir. Lim Wei Khong 04777 256 Ir. Lim Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loh Sook Ling 43746 259 Ir. Loo Chee Kin 15863 260 Ir. Loo Woon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Mid. Yushairi Kamarul Effendy bin Mohd 27918 266 Ir. Mol. Nujid bin I	245	Ir. Lim Boon Chve	10490
247 Ir. Lim Chee Peng 04530 248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Klan Tong 16038 250 Ir. Lim Klan Tong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Tian Lu 12778 254 Ir. Lim Wei Khong 04777 255 Ir. Lim Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loo Sook Ling 43746 259 Ir. Loo Chee Kin 15863 260 Ir. Loo Woon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Mo. Nujid bin Ismail 06158 266 Ir. Mo, E. (B) Michael Chan 03276 267 Ir. Mo, (B) Michael Chan 03276 268 Ir. Mohamad Firida	246	· · · · · · · · · · · · · · · · · · ·	+
248 Ir. Lim Chiau Wu 15583 249 Ir. Lim Hok Lian 13396 250 Ir. Lim Kian Tong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Lik 06752 254 Ir. Lim Tian Lu 12778 255 Ir. Lim Wei Khong 04777 256 Ir. Ling Tieng Kooi 24061 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loo Sook Ling 43746 259 Ir. Loo Wai Shien 15863 260 Ir. Loo Wai Shien 87137 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Moh Nujid bin Ismail 06158 266 Ir. Mo, In Wijid bin Ismail 06158 267 Ir. Mo, Gi, (B) Michael Chan 03276 268 Ir. Mohamad Firidaus bi			+
249 Ir. Lim Hok Lian 13396 250 Ir. Lim Kian Tong 16038 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Lik 06752 254 Ir. Lim Wei Khong 04777 255 Ir. Lim Wei Khong 04777 256 Ir. Lin Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loh Sook Ling 43746 259 Ir. Loo Ochee Kin 15863 260 Ir. Loo Moon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Md. Yushairi Kamarul Effendy bin Mohd 27918 266 Ir. Md. Yushairi Kamarul Effendy bin Mohd 27918 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mohamad Firdaus bin Zainal 93773 <		<u> </u>	+
250 Ir. Lim Kim Siong 41496 251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Lik 06752 254 Ir. Lim Tian Lu 12778 255 Ir. Lim Wei Khong 04777 256 Ir. Lim Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loh Sook Ling 43746 259 Ir. Loo Chee Kin 15863 260 Ir. Loo Moon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Min May Sheng 30694 266 Ir. Mo, Nujid bin Ismail 06158 266 Ir. Min Yushairi Kamarul Effendy bin Mohd Yusof 27918 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mohamad Firdaus bin Zainal 72642 270			+
251 Ir. Lim Kim Siong 41496 252 Ir. Lim Kim Ten 24468 253 Ir. Lim Lik 06752 254 Ir. Lim Tian Lu 12778 255 Ir. Lim Wei Khong 04777 256 Ir. Lin Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loh Sook Ling 43746 259 Ir. Loo Chee Kin 15863 260 Ir. Loo Moon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Siew Kien 66450 264 Ir. Mah Way Sheng 30694 265 Ir. Min Nujid bin Ismail 06158 266 Ir. Mo. Nujid bin Ismail 06158 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mohamad Firdaus bin Zainal 93773 269 Ir. Mohamad Firdaus bin Zainal 93773 270 Ir. Mohd Waardi bin Hassim 28943 271			+
252 Ir. Lim Kim Ten 24468 253 Ir. Lim Lik 06752 254 Ir. Lim Tian Lu 12778 255 Ir. Lim Wei Khong 04777 256 Ir. Lin Sze Min, Edwin 09035 257 Ir. Ling Tieng Kooi 24061 258 Ir. Loh Sook Ling 43746 259 Ir. Loo Chee Kin 15863 260 Ir. Loo Moon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Md. Yushairi Kamarul Effendy bin Mohd 27918 266 Ir. Md. Yushairi Kamarul Effendy bin Mohd 27918 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mohamad Firdaus bin Zainal 93773 269 Ir. Mohd Mawardi bin Hassim 28943 271 Ir. Mohd Mawardi bin Hassim 28943 271 Ir. Mohd Taufik bin Salleh 21291			+
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260 Ir. Loo Moon Whai 02274 261 Ir. Loo Qai Shien 87137 262 Ir. Mah Siew Kien 66450 263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Md. Nujid bin Ismail 06158 266 Ir. Md. Yushairi Kamarul Effendy bin Mohd Yusof 27918 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mej. (B) Michael Chan 03276 269 Ir. Mohamad Firdaus bin Zainal 93773 269 Ir. Mohamad Firdaus bin Mohamad Ali 72642 270 Ir. Mohd Mawardi bin Hassim 28943 271 Ir. Mohd Saiful Azli bin Mohd Salleh 52573 272 Ir. Mohd Taufik bin Salleh 21291 273 Ir. Mohd Zaidi bin Che Mod 36956 274 Ir. Mok Wai Liang 61954 275 Ir. Muhammad Fadly bin Ahmad Usul 104313 276 Ir. Ng Ah Chung 15445 277 Ir. Ng Beng Hooi 25057 279	258	Ir. Loh Sook Ling	43746
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263 Ir. Mah Way Sheng 30694 264 Ir. Mak Chin Onn 28049 265 Ir. Md. Nujid bin Ismail 06158 266 Ir. Md. Yushairi Kamarul Effendy bin Mohd Yusof 27918 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mohamad Firdaus bin Zainal 93773 269 Ir. Mohamad Zaid bin Mohamad Ali 72642 270 Ir. Mohd Mawardi bin Hassim 28943 271 Ir. Mohd Shaiful Azli bin Mohd Salleh 52573 272 Ir. Mohd Taufik bin Salleh 21291 273 Ir. Mohd Zaidi bin Che Mod 36956 274 Ir. Mok Wai Liang 61954 275 Ir. Muhammad Fadly bin Ahmad Usul 104313 276 Ir. Mun Yew Fai 38649 277 Ir. Ng Ah Chung 15445 278 Ir. Ng Seng Hooi 25057 279 Ir. Ng Chee Yee 10862 280 Ir. Ng Jin Seng 15807 281 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh	261	Ir. Loo Qai Shien	87137
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265 Ir. Md. Nujid bin Ismail 06158 266 Ir. Md. Yushairi Kamarul Effendy bin Mohd Yusof 27918 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mohamad Firdaus bin Zainal 93773 269 Ir. Mohamad Zaid bin Mohamad Ali 72642 270 Ir. Mohd Mawardi bin Hassim 28943 271 Ir. Mohd Shaiful Azli bin Mohd Salleh 52573 272 Ir. Mohd Taufik bin Salleh 21291 273 Ir. Mohd Zaidi bin Che Mod 36956 274 Ir. Mok Wai Liang 61954 275 Ir. Muhammad Fadly bin Ahmad Usul 104313 276 Ir. Mun Yew Fai 38649 277 Ir. Ng Ah Chung 15445 278 Ir. Ng Beng Hooi 25057 279 Ir. Ng Chee Yee 10862 280 Ir. Ng Jia Lin 28394 281 Ir. Ng Seng 15807 282 Ir. Ng Robert 01655 283 Ir. Ng Teik Poh 13463 285 Ir. Ng Yoke Kim	263	Ir. Mah Way Sheng	30694
266 Ir. Md. Yushairi Kamarul Effendy bin Mohd Yusof 27918 267 Ir. Mej. (B) Michael Chan 03276 268 Ir. Mohamad Firdaus bin Zainal 93773 269 Ir. Mohamad Zaid bin Mohamad Ali 72642 270 Ir. Mohd Mawardi bin Hassim 28943 271 Ir. Mohd Shaiful Azli bin Mohd Salleh 52573 272 Ir. Mohd Taufik bin Salleh 21291 273 Ir. Mohd Zaidi bin Che Mod 36956 274 Ir. Mok Wai Liang 61954 275 Ir. Muhammad Fadly bin Ahmad Usul 104313 276 Ir. Mun Yew Fai 38649 277 Ir. Ng Ah Chung 15445 278 Ir. Ng Beng Hooi 25057 279 Ir. Ng Chee Yee 10862 280 Ir. Ng Jia Lin 28394 281 Ir. Ng Seng 15807 282 Ir. Ng Robert 01655 283 Ir. Ng Si Yoon 12611 284 Ir. Ng Yee Yee 33777 287 Ir. Ng Yoke Kim 12	264	Ir. Mak Chin Onn	28049
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270 Ir. Mohd Mawardi bin Hassim 28943 271 Ir. Mohd Shaiful Azli bin Mohd Salleh 52573 272 Ir. Mohd Taufik bin Salleh 21291 273 Ir. Mohd Zaidi bin Che Mod 36956 274 Ir. Mok Wai Liang 61954 275 Ir. Muhammad Fadly bin Ahmad Usul 104313 276 Ir. Mun Yew Fai 38649 277 Ir. Ng Ah Chung 15445 278 Ir. Ng Beng Hooi 25057 279 Ir. Ng Chee Yee 10862 280 Ir. Ng Jia Lin 28394 281 Ir. Ng Jin Seng 15807 282 Ir. Ng Robert 01655 283 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh 13463 285 Ir. Ng Win Siau 51364 286 Ir. Ng Yoke Kim 12215 288 Ir. Norzani binti Mahmood 111887 289 Ir. Nur Azhani binti Mohamad Rosli 100933	268	Ir. Mohamad Firdaus bin Zainal	93773
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272 Ir. Mohd Taufik bin Salleh 21291 273 Ir. Mohd Zaidi bin Che Mod 36956 274 Ir. Mok Wai Liang 61954 275 Ir. Muhammad Fadly bin Ahmad Usul 104313 276 Ir. Mun Yew Fai 38649 277 Ir. Ng Ah Chung 15445 278 Ir. Ng Beng Hooi 25057 279 Ir. Ng Chee Yee 10862 280 Ir. Ng Jia Lin 28394 281 Ir. Ng Jin Seng 15807 282 Ir. Ng Robert 01655 283 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh 13463 285 Ir. Ng Win Siau 51364 286 Ir. Ng Yen Yee 33777 287 Ir. Ng Yoke Kim 12215 288 Ir. Norzani binti Mahmood 111887 289 Ir. Nur Azhani binti Mohamad Rosli 100933	270	Ir. Mohd Mawardi bin Hassim	28943
273 Ir. Mohd Zaidi bin Che Mod 36956 274 Ir. Mok Wai Liang 61954 275 Ir. Muhammad Fadly bin Ahmad Usul 104313 276 Ir. Mun Yew Fai 38649 277 Ir. Ng Ah Chung 15445 278 Ir. Ng Beng Hooi 25057 279 Ir. Ng Chee Yee 10862 280 Ir. Ng Jia Lin 28394 281 Ir. Ng Jin Seng 15807 282 Ir. Ng Robert 01655 283 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh 13463 285 Ir. Ng Win Siau 51364 286 Ir. Ng Yee Yee 33777 287 Ir. Ng Yoke Kim 12215 288 Ir. Norzani binti Mahmood 111887 289 Ir. Nur Azhani binti Mohamad Rosli 100933	271	Ir. Mohd Shaiful Azli bin Mohd Salleh	52573
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280 Ir. Ng Jia Lin 28394 281 Ir. Ng Jin Seng 15807 282 Ir. Ng Robert 01655 283 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh 13463 285 Ir. Ng Win Siau 51364 286 Ir. Ng Yen Yee 33777 287 Ir. Ng Yoke Kim 12215 288 Ir. Norzani binti Mahmood 111887 289 Ir. Nur Azhani binti Mohamad Rosli 100933			+
281 Ir. Ng Jin Seng 15807 282 Ir. Ng Robert 01655 283 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh 13463 285 Ir. Ng Win Siau 51364 286 Ir. Ng Yen Yee 33777 287 Ir. Ng Yoke Kim 12215 288 Ir. Norzani binti Mahmood 111887 289 Ir. Nur Azhani binti Mohamad Rosli 100933			+
282 Ir. Ng Robert 01655 283 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh 13463 285 Ir. Ng Win Siau 51364 286 Ir. Ng Yen Yee 33777 287 Ir. Ng Yoke Kim 12215 288 Ir. Norzani binti Mahmood 111887 289 Ir. Nur Azhani binti Mohamad Rosli 100933			+
283 Ir. Ng Si Yoon 12611 284 Ir. Ng Teik Poh 13463 285 Ir. Ng Win Siau 51364 286 Ir. Ng Yen Yee 33777 287 Ir. Ng Yoke Kim 12215 288 Ir. Norzani binti Mahmood 111887 289 Ir. Nur Azhani binti Mohamad Rosli 100933			+
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289 Ir. Nur Azhani binti Mohamad Rosli 100933	287	Ir. Ng Yoke Kim	12215
	288	Ir. Norzani binti Mahmood	111887
290 Ir. Oh Ming Ooi, Samuel 89714	289	Ir. Nur Azhani binti Mohamad Rosli	100933
<u> </u>	290	Ir. Oh Ming Ooi, Samuel	89714

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No.	Name	Membership No.
291	Ir. On Seng Hooi	09617
292	Ir. Ong Beng Hoe	12715
293	Ir. Ong Boo Soon	21880
294	Ir. Ong Tang Kook	14229
295	Ir. Ong Tze Herng	18415
296	Ir. Ooi Hock Lye	15897
297	Ir. Pang Keng Lee	15810
298	Ir. Pang Kia Kim	22014
299	Ir. Pang Su Siong	11930
300	Ir. Phan Fui Nyen	11070
301	Ir. Poh Boon Chaw	03195
302	Ir. Poh Fong Tee	38882
303	Ir. Prof. Dr. Puvanasvaran a/I A. Perumal	37024
304	Ir. Pui Syn Kong	07339
305	Ir. Ramzanul Azhim bin Borhan	25463
306	Ir. Ravindra Masilamoney	18416
307	Ir. Roznan bin Abdul Rashid	11490
308	Ir. Rudy Zulfika bin Yusof	29050
309	Ir. Sek Fook Meng	13965
310	Ir. Shahrizaman bin Zamhury	17058
311	Ir. Shahul Ikram bin Adnan	10375
312	Ir. Shukhen Dutt	15781
313	Ir. Shum Keng Yan	14287
314	Ir. Siew Ko Chiang	18656
315	Ir. Song Kok Rong	51265
316	Ir. Soo Ching Linn	03300
317	Ir. Soo Hock Beng	18188
318	Ir. Soon Can Voon	14791
319	Ir. Sri Kanthan a/I Veeramuthu	51359
320	Ir. Sukhairul Nizam bin Abdul Razak	48536
321	Ir. Sukhvinder Singh a/I Harbans Singh	29221
322	Ir. Suppah Rao a/l Ramanaidu	49296
323	Ir. Suresh Kumar a/l Kandasamy	24438
324	Ir. Tam Shui Yen	09090
325	Ir. Tan Bak Ping	03872
326	Ir. Tan Ban Loong	05352
327	Ir. Tan Boon Han	19763
328	Ir. Tan Chee Seng	08821
329	Ir. Tan Chun Tat	23260
330	Ir. Tan Hang Teck	02453
331	Ir. Tan Juat Ngoh	14655
332	Ir. Tan Ka Yuen	18238
333	Ir. Tan Kian Aun	23054
334	Ir. Tan Kian Eng	12351
335	Ir. Tan Lip Jin	16493
336	Ir. Tan Su Leng	25736
337	Ir. Tan Swee Kun	04900
338	Ir. Tan Teck Siong	56123
339	Ir. Tan Thong Ooi	12433
340	Ir. Tan Wang Khai	28838
341	Ir. Tang Bong Kiek @ Tang Agu	13951
342	Ir. Tang Chee Yong	11694
343	Ir. Tang Soo Ha	04092
344	Ir. Tang Tai Teng	02372
345	Ir. Teh Han Heng	13295
346	Ir. Teng Yien Chen	16926
347	Ir. Teoh Teik Thiam	14345
348	Ir. Thamim Anser bin Habibullah Khan	26919
349	Ir. Thin Choon Chai	04078
350	Ir. Tiah Oon Han	19227
351	Ir. Ting Ching Nee	15515



No.	Name	Membership No.
352	Ir. Ting Sing Kwong	06613
353	Ir. Tiong Tung Ting, Thomas	07371
354	Ir. Tnay Choon Hwa	08151
355	Ir. Tong Nam Khong	06115
356	Ir. Tou Yok San	42175
357	Ir. Ts. Dr. Tan Kim Seah	77459
358	Ir. Ts. Lim Juin Khye	51825
359	Ir. Ts. Wong Kok Nian	45915
360	Ir. Tu Yong Eng	15448
361	Ir. Viyasan a/l Krishnan	13481
362	Ir. Voo Fui Ken	15002
363	Ir. Wong Chan Yee	38758
364	Ir. Wong Hon Mun	70658
365	Ir. Wong Keat Heung	12800
366	Ir. Wong Kiing Chai	05749
367	Ir. Wong Miow Song	03699
368	Ir. Wong Su Ken	17560
369	Ir. Wong Swee On	03830
370	Ir. Wong Tai Poh	13736
371	Ir. Wong Tien Soong	43668
372	Ir. Wong Tuck Yoon	12228
373	Ir. Woon Tin Kek	19628
374	Ir. Wu Swee Weng	06661
375	Ir. Yap Kiam Fui	07174
376	Ir. Yap Kok Keong	05454
377	Ir. Yap Ming Tzer	32546
378	Ir. Yap Tze Chuen	24328
379	Ir. Yap Wee Ghian	28298
380	Ir. Yew Hoo Sang	07775
381	Ir. Yoganathan a/I Shanmugam	14822
382	Ir. Yong Hong Loo	10268
383	Ir. Yong Min Kong, Joseph	09545
384	Ir. Yu Pow Seng	10725
385	Ir. Zaimul Khalil bin Md. Mustaffa	43069
386	Ir. Zainal Fithri bin Mat Zahari	15913
387	Ir. Zainol Arifen bin Said	15123
388	Ir. Zakaria bin Shafeei	111548
389	Mr. Ahmad Shamsol bin Jusoh	22055
390	Mr. Ali Rahman bin Junaidi	22563
391	Mr. Ang Kuan Sim	91034
392	Mr. Ang Teng Hong	27536
393	Mr. Azman bin Yahya	49453
394	Mr. Bong Beng Siong	70303
395	Mr. Burhanud-Din bin Ishak	44108
396	Mr. Chan Hwan Wee	20531
397	Mr. Chan Jiunn Yeep	51309
398	Mr. Chan Sing Yeong	25096
399	Mr. Chan Yee Yan	18526
400	Mr. Chang Heen Loong	69506
401	Mr. Chang Toong Woh	17503
402	Mr. Chay Kwok Goon	75143
403	Mr. Cheah Chin Seng	19708
404	Mr. Chen Sin Khong	13813
405	Mr. Cheng Chin Chuan	21201
406	Mr. Cheng Kam Hon	28830
407	Mr. Cheo Yuan Ping	21137
100	Mr. Cheong Hon Wooi	37902
408	T	I
408	Mr. Cheong Kok Sang	14885
_	Mr. Cheong Kok Sang Mr. Cheu Teck Sen, Marcus	14885 38598
409		

No.	Name	Membership No.
413	Mr. Chiew Sing Huat	18229
414	Mr. Chin Bin	41133
415	Mr. Chin Chee Kwong	23486
416	Mr. Chin Chee Seong	18304
417	Mr. Chin Ching Wei	27103
418	Mr. Chin Nyuk Jyi	32881
419	Mr. Chin Tet Fu @ Willy	20404
420	Mr. Chin Woon Kheong	60045
421	Mr. Chin Yun On, Peter	16277
422	Mr. Chong Kian Wei	35768
423	Mr. Chong Woei Tding	44518
424	Mr. Chong Yee Horng	71206
425	Mr. Chow Soon Lee	27906
426	Mr. Chua Bih Lii	26430
427	Mr. Chuang Kuang Cherng	92330
428	Mr. Chung Jia Jiunn	41527
429	Mr. Eng Yong Kheng	19052
430	Mr. Fait bin Hanapi	54510
431	Mr. Foong Chee Wai	20563
432	Mr. Foong Kok Li	87695
433	Mr. Gan Kok Wee	21863
434	Mr. Han Chee Keong	21184
435	Mr. Hasnan bin Ab. Hamid	06887
436	Mr. Hii Wee Sian	102030
437	Mr. Ho Kiat Yee	28078
438	Mr. Johnson Ndawie	33623
439	Mr. Kamarul Azlan bin Md. Bukhri	24776
440	Mr. Kamarullaffie bin Hj. Ahmad	32672
441	Mr. Khairul Azman bin Ahmad	100984
442	Mr. Khaw Yao Shun	86891
443	Mr. Kiu Kwong Lieng	29200
444	Mr. Kok Vui Tek	45255
445	Mr. Kong Sin Kooi	08312
446	Mr. Kong Yong Meng	20636
447	Mr. Kuan Jew Xun	44029
448	Mr. Kwong Kar Kitt	41232
449	Mr. Lai Ker Tze	42352
450	Mr. Lam Kai En	75460
451	Mr. Lam Wei Haur	54113
452	Mr. Lau Hui Leong	29697
453	Mr. Law Hong Kwang	43664
454	Mr. Lean Meng Kiat	22899
455	Mr. Lee Choon Hong	53702
456	Mr. Lee Jen Shiong	25659
457	Mr. Lee Kok Siong	32604
458	Mr. Lee Le Qin	29879
459	Mr. Lee Swee Yong	25439
460	Mr. Lee Toung Tian	22332
461	Mr. Lee Tse Weng	26447
462	Mr. Leong Wen Kam	84927
463	Mr. Lew Yun Hin	41241
464	Mr. Liew Chee Seong	21265
465	Mr. Liew Chia Hou	52339
466	Mr. Liew Ka Wei	24734
467	Mr. Liew Ming Chek	66066
468	Mr. Liew Pik Lee	25100
469	Mr. Liew Siaw Kiat	20706
470	Mr. Lim Chew Hin	28829
471	Mr. Lim Fu Yee	43590
472	Mr. Lim Hock Choon	12627
473	Mr. Lim Kee Tong	44596



	T.,	
No.	Name	Membership No.
474	Mr. Lim Kim Ong	32868
475	Mr. Lim Swee Sang	24903
476	Mr. Lim Thou Kiong	26833
477	Mr. Lim Yoke Lee	25875
478	Mr. Ling Jen Hua	70261
479	Mr. Ling Soon Yick	23499
480	Mr. Lit Moon Kai	10235
481	Mr. Loi Tuck Chow	18933
482	Mr. Loi Yiaw Hui	21806
483	Mr. Lok Eng Tatt	70284
484	Mr. Loke Kok Wai	66449
485	Mr. Lokman Hakim bin Abdul Aziz	33126
486	Mr. Loo Swee Kee	24850
487	Mr. Meheron a/l Selowara Joo	30635
488	Mr. Michael Koay	25517
489	Mr. Mohamad Ali Ahmad	72599
490	Mr. Mohamad Azuan bin Mohd. Shamsuddin Tan	79286
491	Mr. Mohamad Shaiful Ashrul bin Ishak	27575
492	Mr. Mohamad Zaidi bin Nordin	106204
493	Mr. Mohd Helmi Alsyukran bin Abd. Malik	97308
494	Mr. Mohd Nazri bin Shaari	32692
495	Mr. Mohd Zailani bin Mod Nor	33942
496	Mr. Momas Modon	97328
497	Mr. Muhamad Resdi bin Abdul Manaf	30670
498	Mr. Muhammad Siddiq bin Sallehuddin	93827
499	Mr. Muhammad Zukni bin Ibrahim	93986
500	Mr. Murthy a/l Ramarao	42456
501	Mr. Nazurul Azuan bin Abdul Aziz	32688
502	Mr. New Huang Chin	21689
503	Mr. Ng Ban Foun	80674
504	Mr. Ng Boon Chai	100739
505	Mr. Ng Boon Kiat	18171
506	Mr. Ng Han Teck	93764
507	Mr. Ng Horng Heng, Bryan	70557
508	Mr. Ng Joon Kiat	51328
509	Mr. Ng Weng Sum	20970
510	Mr. Nor Halif bin Nor Zaman	94351
511	Mr. Nor Hamidi bin Bidin	43597
512	Mr. Oliver Ak Junaidi	21979
513	Mr. Ong Chea Jin	105579
514	Mr. Ong Eng King, Joshua	34005
515	Mr. Ong Teik Chuan	38676
516	Mr. Ong Yee Seng	21800
517	Mr. Ooi Beng Hooi	09087
518	Mr. Pan Tze Shun	18196
519	Mr. Pang Wei Chin	24383
520	Mr. Pang Yoon Khong	22288
521	Mr. Phang Chee Man	22052
522	Mr. S Yogan a/l K Sathiyagnany	18411
523	Mr. Sar Koon Kong	18575
524	Mr. Sek Fook Keong	15645
525	Mr. Sew Shuh Tyng	11409
526	Mr. Sia Kie Ding	25570
527	Mr. Siaw Ming Chian	39198
528	Mr. Sim Wei Hong, James	79319
529	Mr. So Wee Siang	37243
530	Mr. Syamsul Rizal bin Abd. Shukor	105193
531	Mr. Tan Chew Peng	43067
532	Mr. Tan Chong Hoo	52404
533	Mr. Tan Khar Meng	45341
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No.	Name	Membership No.
534	Mr. Tan Kheng Boon	20220
535	Mr. Tan Kian Soon	18938
536	Mr. Tan Tang Chin	24723
537	Mr. Tan Yek Guang, Clifford	109247
538	Mr. Tan Yeng Kiang	20186
539	Mr. Tan Yu Quan	72639
540	Mr. Tang Kin Heng	28599
541	Mr. Tang Kuan Pui	42548
542	Mr. Tang Theam Hooi	79002
543	Mr. Tang Yu Cai	23370
544	Mr. Tay Boon Long	51719
545	Mr. Te Choon Chiam	36838
546	Mr. Teh Teong Joo	23511
547	Mr. Ten Pang Sin	19972
548	Mr. Teo Kok Ping	65205
549	Mr. Teow Loo Yih	21200
550	Mr. Tey Choo Yew, Calvin	22242
551	Mr. Teyo Eng Chong	36313
552	Mr. Thong Foo How	36302
553	Mr. Tie King Bang	38612
554	Mr. Ting Tiew Whong	24193
555	Mr. Tiong Kung Sing	06807
556	Mr. Toh Chin Kok	21175
557	Mr. Toh Kar Wai	70311
558	Mr. Tsai Song Meaw, Frederick	20022
559	Mr. Wan Othman bin Wan Jusoh	33762
560	Mr. Wan Yow Choy	20585
561	Mr. Wee Chee Sum	18628
562	Mr. Wha Boon Keng	79000
563	Mr. Willis Ansoi	10099
564	Mr. Wong Chien Soon, Kelly	47076
565	Mr. Wong Keang Hao	59048
566	Mr. Wong Keng Liang	22588
567	Mr. Wong Kok Wai	05845
568	Mr. Wong Kuok Yong	99490
569	Mr. Wong Seak Wai	22364
570	Mr. Wong Siong Shyong	22456
571	Mr. Wong Wee Chee	34304
572	Mr. Wong Weng Yik	53096
573	Mr. Wong Wun Chwen, Norman	56116
574	Mr. Yap Eng Keat	20732
575	Mr. Yap Kim Chuan	20882
576	Mr. Yee Cheze Hui, Jeffrey	19294
577	Mr. Yee Cheze Kwang, Felix	19672
578	Mr. Yee Keat Leong	43162
579	Mr. Yee Ming Jiunn	45311
580	Mr. Yeo Lung Lung, Alvin	29199
581	Mr. Yeoh Su Hong	28006
582	Mr. Yu Siaw Cheun, Arius	108216
583	Ms. Bee Soo Tueen	23710
584	Ms. Chan Hooi San	49572
585	Ms. Chan Yin Har	49407
586	Ms. Chia Yun Lee	30663
587	Ms. Chia Huay Khim	20069
588	Ms. Chang Ing Ing	38592
589	Ms. Chong Ing Ing	20965
590	Ms. Edna Matthew Ruji	81466
591	Ms. Foo Zhi Sien	54090
592	Ms. How Yoke Teng	64626
593	Ms. Lai Li Ling	93519
594	Ms. Lee Lai Haa	55819



	Ι.,	
No.	Name	Membership No.
595	Ms. Lee Li Keat	20799
596	Ms. Leow Jia Hui	29191
597	Ms. Lim Lea Pieng	20352
598	Ms. Loh Yee Eng	37221
599	Ms. Nurul Huda binti Mat Nor	52420
600	Ms. Ooi Choy Hoong	24519
601	Ms. Rusnida binti Talib	43183
602	Ms. Samantha Lau Zhiling	43285
603	Ms. Shakila binti Zainon	112800
604	Ms. Tan Lai Wai	62058
605	Ms. Tay Lee Choo	99363
606	Ms. Teong Ching Et	43603
607	Ms. Tung Yee Lyn	28041
608	Ms. Ung Hui Hui	19826
609	Ms. Wong Siew Yee	39963
610	Ms. Yau Jie Ying	36188
	SENIOR GRADUATE MEMBER	
611	Mr. Lee Shiaw Jien	50757
612	Mr. Liew Chee Leong	101936
	GRADUATE MEMBER	
613	Dr. Hii Ching Lik	44579
614	Dr. Hoh Wei Siang	115129
615	Dr. Ravinthran a/l Mariappan	89716
616	Dr. Siow Ping Chuan	89538
617	Dr. Wong Jee Keen, Raymond	37834
618	Mr. Abdul Hadyan Syafiq bin Hj. Abdul Jalil	60518
619	Mr. Ahmad Fathi bin Zainazlan	101992
620	Mr. Ahmad Hosni bin Abd. Malek	43801
621	Mr. Amir Firdaus bin Said	87410
622	Mr. Chong Kok Hing	71184
623	Mr. Choo Chung Siung	71693
624	Mr. Choy Jin Shen	107573
625	Mr. Chung Lip Leong	25114
626	Mr. Ha Heng Yeu, Alex	35516
627	Mr. Heng Zen Hwa, Raymond	86333
628	Mr. Kevin Christian Nair	51648
629	Mr. Kho Tuck Sing	99380
630	Mr. Ku Mohamad Afiq bin Ku Arshad	70023
631	Mr. Lim Yiren	68058
632	Mr. Ling Sing Kieng, Jarvis	42166
633	Mr. Mohamad L. Masludin Syah bin Syamsuri	108435
634	Mr. Mohd Fadhil bin Majnis	24684
635	Mr. Mohd Fadzil bin Mohd Daud	114388
636	Mr. Mohd Fareez bin Mohd Yusoff	114378
637	Mr. Muhamad Hafiz bin Mohamed Ali	72127
638	Mr. Muhammad Ashiq Marecan bin Hamid Marecan	88345
639	Mr. Muhammad Redzuan bin Umar	29046
640	Mr. Ooi Wei Chien	108160
641	Mr. Raja Ahmad Farhan bin Raja Adli	89456
642	Mr. Sia Shang Yuen	41292
643	Mr. Tan Teck Ying	60730
644	Mr. Tan Yi Jie	80968
645	Mr. Tan Yu Zhe	96914
646	Mr. Wesley Anak Lock Sulen	64645
647	Mr. Yap Chen Leong	109198
648	Mrs. Noraimi binti Ahmad	114383
649	Ms. Hong Mee Song	60860
650	Ms. Jacquelyne Anne Boudeville	74380
651	Ms. Lau See Hung	43109
652		
	Ms. Najiha binti Nadzru	33135

No.	Name	Membership No.		
653	Ms. Tan Huey Meing	65047		
654	Ts. Chan Khung Leong	22094		
ENGINEERING TECHNOLOGIST GRADUATE MEMBER				
655	Ts. Ramesh a/l Sabapathy	102982		
INCORPORATED MEMBER				
656	Sdr. Shafulrizal bin Zainol	26932		
ASSOCIATE MEMBER				
657	Sdr. Yusran bin Ariffin	87131		
STUDENT MEMBER				
658	Sdr. Aliff Firdaus bin Suhaimi	108978		
659	Sdr. Tay Zi Jian	103610		
660	Sdr. Wong Juin Hao	112755		
661	Sdr. Yavinaash Naidu Saravanakumar	104350		
662	Sdri. Han Bin Ong	104336		





MINIT MESYUARAT AGUNG TAHUNAN YANG KE – 62 YANG DIADAKAN PADA 17 APRIL 2021 SECARA HIBRID PADA PUKUL 9.00AM



SENARAI AHLI-AHLI YANG HADIR - SEPERTI DILAMPIRAN A

1.0 KATA-KATA ALUAN OLEH YANG DIPERTUA

1.1 Yang DiPertua, Ir. Ong Ching Loon mengalu-alukan kehadiran para ahli ke Mesyuarat Agung Tahunan (MAT) yang ke-62 dan seterusnya memulakan mesyuarat pada pukul 9.02am. Beliau merakamkan ucapan terima kasih kepada para ahli yang menghadiri MAT yang diadakan secara atas talian bagi tahun yang kedua serta memaklumkan bahawa cara pengendalian mesyuarat begini bukan sahaja tidak menjejaskan sokongan para ahli malah membolehkan para ahli dari luar Lembah Kelang menghadiri mesyuarat tersebut.

Demi memastikan pematuhan SOPs, Setiausaha Kehormat dijemput untuk memberikan taklimat ringkas tentang peraturan-peraturan yang perlu diikuti semasa MAT dianjurkan.

- (i) Disebabkan kekangan platform maya, bilangan soalan yang boleh dibenarkan adalah terhad. Walau bagaimanapun, berbanding dengan tahun lepas, IEM telah menambahbaik pengaturcaraan di mana para ahli boleh mengemukakan soalan mereka secara lisan;
- (ii) tempoh masa 10 minit sahaja akan diluangkan untuk maksima 5 soalan bagi setiap segmen. Para ahli perlu klik ikon "raise hand" untuk kakitangan IT boleh membenarkan mereka bercakap. Ahli perlu memberitahu nama serta nombor ahli sebelum mengemukakan soalan.
- (iii) Sebagai alternatif, bagi ahli yang tidak mahu mengemukakan soalan secara lisan, mereka boleh menaip soalan ke dalam "chat box". Soalan itu akan dipaparkan pada skrin sebelum jawapan diberi.

Setiausaha Kehormat mengucapkan terima kasih atas perhatian ahli dan selepas itu menyerahkan semula mesyuarat kepada Yang DiPertua. Yang DiPertua seterusnya membentangkan laporan keseluruhan dari bulan Ogos 2020 hingga bulan April 2021. Butirannya seperti berikut:

1.2 Laporan Keseluruhan Yang DiPertua bagi sesi 2020/2021

1.2.1 Mesyuarat dengan pihak Kementerian

Yang DiPertua telah menghadiri mesyuarat dengan pelbagai Kementerian. Butirannya seperti berikut:

- "Sesi Libat Urus Penggiat Industri Pembinaan" bersama Menteri Kanan, Kementerian Kerja Raya dan Menteri Di Jabatan Perdana Menteri pada 22 September 2020;
- (ii) "Sesi Libat Urus Bersama Wakil Industri Berkaitan "Pematuhan & Pengkuat-kuasaan SOP Di Tapak Pembinaan" di Kementerian Kerja Raya pada 25 Januari 2021 dan mesyuarat seterusnya pada 10 Mac 2021.

1.2.2 Kertas Kerja IEM

MAT dimaklumkan bahawa dua (2) kertas kerja telah dikemukakan kepada Kementerian-kementerian yang berkaitan:

- Kertas Kerja bertajuk "Building Capacity of Railway Systems Engineering for the Future" kepada Kementerian Pengangkutan Malaysia
- (ii) Kertas Kerja bertajuk "The Impact of Sea Level Rise on Coastal Communities and Development" kepada Kementerian-kementerian yang berkaitan

MAT seterusnya mengambil maklum bahawa lanjutan kepada Kertas Kerja yang dikemukakan, Kementerian Pengangkutan telah menjemput wakil IEM untuk mengambil bahagian dalam "Railway Engineering Centre of Excellence (RCoE)" yang terdiri daripada empat Kumpulan Kerja / Jawatankuasa Kecil.

Bagi Kertas Kerja *"Kesan Kenaikan Aras Laut terhadap Komuniti dan Pembangunan Pesisir Pantai"*, IEM kini sedang menunggu maklumbalas daripada Kementerian berkaitan.

1.2.3 Memorandum Bersama/ Kenyataan Bersama Pihak Berkaitan

MAT juga dimaklumkan bahawa IEM telah menyerahkan memorandum untuk dialog MITI serta menyokong Majlis Presiden Industri Bangunan (BIPC) dalam kenyataan bersama untuk membantah lanjutan levi HRDF kepada syarikat pembinaan. Kenyataan itu telah diterbitkan dalam "Utusan Malaysia" dan akhbar harian Cina "Nanyang Siang Pau".

1.2.4 Mesyuarat Antarabangsa

MAT turut mengambil maklum bahawa Yang DiPertua telah menghadiri mesyuarat-mesyuarat antarabangsa seperti berikut:

- (i) CAFEO38 Hanoi yang buat pertama kalinya telah dikendalikan secara maya dari 18 26 November 2020 oleh Vietnam Union of Science and Technology Associations (VUSTA).
- (ii) World Federation Engineering Organisation (WFEO) pada 23 September 2020.
- (iii) International Engineering Alliance Meeting (IEA) pada 28 Januari 2021.
- (iv) Perhimpunan Agong Tergempar bagi International Tunnelling Association (ITA) pada 10 Februari 2021.
- (v) Federation of Engineering Institutions of Asia and the Pacific (FEIAP) pada 30 Mac 2021.

1.2.5 Kunjungan Hormat

Yang DiPertua telah membuat kunjungan hormat ke pejabat YBhg. Dato' Ir. Haji Mohamad Zulkefly bin Sulaiman, Presiden BEM yang baru pada 30 November 2020. Beliau juga memegang jawatan Ketua Pengarah Jabatan Kerja Raya Malaysia (JKR). MAT juga dimaklumkan bahawa beliau pernah menyandang jawatan Bendahari Kehormat, IEM Cawangan Timur bagi sesi 2002/2003.

Yang DiPertua turut membuat kunjungan hormat ke pejabat Menteri Besar Johor pada 18 Mac 2021 khas untuk mendapatkan sokongan kepada IEM Cawangan Selatan yang akan menganjurkan Mesyuarat Pertengahan Tahun untuk Lembaga AFEO di Johor Bahru.

1.2.6 Memorandum Persefahaman

Yang DiPertua kemudiannya melaporkan bahawa IEM telah menandatangani Memorandum Persefahaman dengan organisasi-organisasi berikut:

- (i) Institution of Mechanical Engineers UK (IMechE) pada 24 Ogos 2020.
- (ii) Malaysian Productivity Corporation (MPC) dan IEM Training Centre pada 5 Disember 2020.
- (iii) American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Malaysia Chapter pada 5 April 2021.
- (iv) Johor Centre for Construction Development (JCCD) pada 8 April 2021.

1.2.7 Kertas Kerja dan Kenyataan Akhbar

MAT juga dimaklumkan bahawa IEM telah melengkapkan beberapa kertas kerja dan mengeluarkan kenyataan akhbar bagi mendapatkan sokongan daripada pihak kerajaan untuk membantu firma perunding kejuruteraan kecil dan sederhana yang menghadapi masalah kewangan terutamanya semasa pandemik.

1.2.8 Aktiviti Khas

Yang Dipertua seterusnya melaporkan aktiviti khas yang telah dianjurkan melalui platform maya seperti berikut:

- (i) Projek Akhir Tahun Tan Sri Ir. Hj. Yusoff Ibrahim 2020 yang mana pembentangan terakhir telah dianjurkan pada 24 November 2020. Sebanyak 36 penyertaan telah diterima daripada Institusi Pengajian Tinggi (IPT) dan projek-projek tersebut terpaksa dibentangkan secara maya disebabkan oleh implimentasi PKPB.
- (ii) "MyAPEC Exhibition Webinar Series on Internationalising Malaysian Professional Engineering" telah diadakan pada 24 November 2020. IEM telah dilantik oleh MATRADE untuk mengendalikan siri webinar MyAPEC2020 ini. Penceramah yang terlibat adalah Yang DiPertua, Ir. Ong Ching Loon, Ir. Yau Chau Fong dan Ir. Dr. Lee Yun Fook manakala moderatornya adalah Ir. Yam Teong Sian.
- (iii) ASEAN-Korea Engineering Forum ke-8 telah diadakan pada 4 Disember 2020 dan IEM telah diwakili oleh Yang DiPertua.



- (iv) Hari Profesion Teknikal Negara 2020 telah diadakan pada bulan Disember 2020 di mana beberapa webinar dan pertandingan telah dianjurkan. IEM telah memenangi kategori poster untuk Poster Cabaran 3 Minit Video dan telah menerima hadiah daripada pihak penganjur.
- (v) "Engineer PowerTalk" yang pertama telah diadakan pada 12 Januari 2021. Ceramah yang merupakan sebahagian daripada aktiviti promosi untuk ENGINEER2021 dianjurkan bersama dengan CIS Network Sdn Bhd. Webinar kedua telah diadakan pada 24 Mac 2021 manakala webinar ketiga pula dijadualkan pada 29 April 2021.
- (vi) Persidangan Antarabangsa mengenai Akreditasi Pendidikan Kejuruteraan yang dihoskan oleh Majlis Kejuruteraan Myanmar telah diadakan secara maya dari 14 – 16 Januari 2021.
- (vii) Webinar IEM-ISTIC mengenai "Electrical Maintenance in ASEAN and South-South Countries" telah diadakan pada 3 Mac 2021.
- (viii) Forum berjudul "How to Turnaround Business in Covid-19 Pandemic" telah diadakan pada 26 Mac 2021.
- (ix) Pelancaran dua (2) gred keahlian IEM baharu; Engineering Technologist and Engineering Technician telah diadakan pada 3 April 2021. Di samping itu, MAT dimaklumkan bahawa IEM akan menandatangani dua (2) lagi perjanjian iaitu "International Engineering Technologist Agreement" (IETA) dan "Agreement for International Engineering Technicians" (AIET) pada Jun 2021. Yang DiPertua kemudiannya mengucapkan terima kasih kepada Lembaga Jurutera Malaysia atas sokongan mereka terhadap perkara ini dan menekankan bahawa ini akan menjadi satu lagi detik bersejarah bagi IEM.

MAT seterusnya dimaklumkan bahawa sebanyak 273 webinar telah dianjurkan dari 18 April 2020 hingga 31 Mac 2021 dan jumlah keseluruhan peserta adalah seramai 29,211. Dengan ini, webinar telah menjana pendapatan sebanyak RM328,776. Yang DiPertua kemudiannya mengucapkan terima kasih kepada Bahagian Teknikal, Kumpulan Kepentingan Khas dan Bahagian Jurutera Muda serta Jurutera Wanita di atas usaha dan sumbangan mereka dalam penganjuran webinar masing-masing dalam tempoh tersebut.

Sebelum pembentangan perkara-perkara berbangkit yang seterusnya, MAT menyaksikan pelancaran ENGINEER2021 yang dijadualkan berlangsung dari 9 hing 11 September 2021.

2.0 AGENDA MAT

Selepas menyelesaikan laporan beliau, Yang DiPertua seterusnya membentangkan Agenda Mesyuarat Agung Tahunan seperti berikut:

- 1. Pengesahan Minit Mesyuarat Agung Tahunan ke-61 yang diadakan pada 25 Julai2020
- Perkara Berbangkit daripada Mesyuarat Agung Tahunan ke-61 yang diadakan pada 25 Julai 2020
- 3. Pembentangan laporan Setiausaha Kehormat
- 4. Pembentangan Penyata Kewangan bagi Tahun berakhir 31 Disember 2020
- 5. Soalan bertulis yang dihantar oleh ahli
- 6. Pembentangan Keputusan Pilihan Majlis Sesi 2021/2022
- 7. Penyampaian Anugerah
- 8. Ucapan Yang DiPertua untuk Sesi 2021/2022

Memandangkan tiada bantahan terhadap agenda tersebut, Yang DiPertua meneruskan Mesyuarat Agung Tahunan ke-62 sepertimana dicadangkan.

3.0 PENGESAHAN MINIT MESYUARAT AGUNG TAHUNAN KE-61 YANG DIADAKAN PADA 25 JULAI 2020

Yang DiPertua menjemput ahli-ahli untuk meneliti minit Mesyuarat Agung Tahunan yang lepas dari mukasurat 54 hingga mukasurat 70. Para ahli juga diminta meneliti senarai kehadiran dari mukasurat 71 hingga 77 dan versi Bahasa Malaysia dari mukasurat 78 hingga 95.

Yang DiPertua seterusnya memaklumkan bahawa sekiranya terdapat ahli yang ingin mengulas, mereka perlu klik pada ikon "RAISE HAND".

Ir. Prof. Dr. Jeffrey Chiang Choong Luin (F20286) memaklumkan bahawa terdapat kesilapan pada nama beliau dalam senarai kehadiran kerana gelaran "Dato" dinyatakan di hadapan namanya. Yang DiPertua mengambil maklum perkara tersebut dan menjawab bahawa pindaan akan dibuat dengan sewajarnya.

Memandangkan tiada lagi kesilapan yang diketengahkan dari minit tersebut, Ir. Dr. Tan Chee Fai (F18343) mencadangkan minit Mesyuarat Agung Tahunan ke-61 yang diadakan pada 25 Julai 2020 disahkan. Usul itu telah disokong oleh Ir. Mohd Aman bin Hj. Idris (F02176).



4.0 PERKARA-PERKARA BERBANGKIT

Yang DiPertua kemudiannya memberikan penjelasan mengenai perkara-perkara yang dibangkitkan pada Mesyuarat Agung Tahunan ke-61 yang diadakan pada 25 Julai 2020.

Perkara tersebut adalah:

4.1 Mukasurat 64 –67

Perkara 8.14 - Pindaan terhadap Perlembagaan

MAT dimaklumkan bahawa pindaan yang dicadangkan pada Mesyuarat Agung Tahunan yang lalu telah dihantar untuk pengundian pada 25 Ogos 2020. Selepas penutupan dan pengiraan undi pada 23 September 2020, semua cadangan pindaan telah diterima oleh Ahli Korporat dengan majoriti lebih daripada 75%. Pindaan itu kemudiannya dihantar kepada Pendaftar Pertubuhan (ROS). Kelulusan daripada ROS telah diterima pada 6 November 2020.

5.0 LAPORAN TAHUNAN SESI 2020/2021

Yang DiPertua kemudiannya menjemput Setiausaha Kehormat, Ir. Dr. David Chuah Joon Huang untuk membentangkan pelbagai aktiviti dan acara yang dianjurkan pada tahun 2020 yang dicetak pada mukasurat 98 hingga 140 dalam Laporan Tahunan. Setiausaha Kehormat kemudian melaporkan perkara-perkara yang diketengahkan dalam Laporan Tahunan seperti berikut:

5.1 Majlis dan Jawatankuasa Eksekutif

Bagi Sesi 2020/2021, Majlis telah mengadakan empat (4) mesyuarat. Dalam mesyuarat Majlis, mereka membincangkan perkara berkaitan dasar serta pengurusan harta dan hal ehwal Institusi.

Manakala Jawatankuasa Eksekutif pula telah mengadakan sepuluh (10) mesyuarat bagi Sesi 2020/2021. Perbincangan terutamanya tertumpu kepada perlaksanaan keputusan Majlis. Setiausaha Kehormat memaklumkan lazimnya Jawatankuasa Eksekutif akan bermesyuarat setiap bulan tetapi bagi sesi 2020/2021, hanya terdapat sepuluh mesyuarat sahaja kerana sesi baharu hanya bermula pada bulan Julai 2020.

MAT dimaklumkan lagi bahawa mesyuarat Majlis dan Jawatankuasa Kerja telah diadakan secara maya sepanjang sesi 2020/2021.

5.2 Jawatankuasa Tetap dan Operasi Harian

MAT turut dimaklumkan bahawa Jawatnkuasa Kerja masih dibantu oleh lapan (8) Jawatankuasa Tetap dalam operasi harian. Setiap Jawatankuasa Tetap dipengerusikan oleh seorang Naib Yang DiPertua manakala Jawatankuasa Kewangan dipengerusikan oleh Timbalan Yang DiPertua.

5.3 Keahlian

Sehingga 31 Disember 2020, seramai 4,123 calon telah diluluskan untuk kemasukan/pemilihan/perpindahan ke pelbagai gred. Daripada ahli baharu yang diterima, 2,813 adalah siswa. Bagaimanapun, pada akhir tahun, 3,401 ahli telah tertunggak berbanding 2,304 pada 2019. Jumlah keseluruhan keahlian IEM pada 1 Mac 2021 ialah 47,087.

Di peringkat antarabangsa, pecahan adalah seperti berikut; 25 calon telah didaftarkan untuk APEC & IntPE, 18 untuk ASEAN Engineers (AE), 22 untuk Associate ASEAN Engineers (AAE) dan seorang (1) untuk Associate Engineering Technologist.

Dari segi pecahan keahlian mengikut gred, Setiausaha Kehormat seterusnya memaklumkan bahawa keahlian Siswa mempunyai peratusan tertinggi iaitu 53.4% diikuti oleh Siswazah (24.2%), Ahli (19.3%), Fellow (1.6%) dan gred lain seperti Incorporated, Affiliate and Associate adalah 1.5%.

Bagi pecahan dari segi disiplin kejuruteraan utama, Kejuruteraan Awam mempunyai peratusan tertinggi iaitu 34%, diikuti oleh Mekanikal (25%), Elektrikal (15%), Elektronik (9%) dan Kimia (7%).



5.4 **Temuduga Profesional**

MAT seterusnya dimaklumkan bahawa bagi sesi 2020/2021, seramai 214 calon telah memohon untuk menduduki Temuduga Profesional. Dimaklumkan lagi bahawa 96 calon telah lulus manakala 47 gagal dalam Temuduga Profesional. Selain itu, seramai 56 orang sedang menunggu untuk ditemuduga manakala 15 orang menunggu keputusan.

5.5 **Penerbitan IEM**

Setiausaha Kehormat memaklumkan MAT bahawa dua belas (12) keluaran "Jurutera" – Buletin IEM telah diterbitkan pada tahun 2020.

Buletin Elektronik, yang boleh dibaca tanpa dimuat turun, telah dilaksanakan dan dihantar melalui e-mel kepada para ahli pada setiap bulan. MAT juga dimaklumkan bahawa ahli yang ingin memiliki salinan bercetak majalah tersebut boleh mendapatkannya dari pejabat IEM.

Dilaporkan lagi bahawa dua (2) keluaran Jurnal juga telah diterbitkan dan dimuatnaik di laman web IEM.

5.6 Aktiviti-aktiviti IEM 2020

Setiausaha Kehormat melaporkan bahawa keseluruhannya terdapat 222 aktiviti yang telah dikendalikan untuk Sesi 2020/2021. Aktiviti-aktiviti ini termasuk ceramah teknikal (177), lawatan teknikal (5), kursus dan seminar (38), persidangan maya (1) dan simposium (2).

5.7 Manfaat Ahli

Mesyuarat Agung Tahunan juga dimaklumkan bahawa IEM telah mendapatkan persefahaman daripada lebih banyak jenama barangan untuk menambahkan manfaat keahlian IEM seperti Kasut Wolverine dan Red Wing (Pakaian Sukan) dan kereta Subaru.

5.8 Pelancaran Keahlian Gred Baharu

Setiausaha Kehormat melaporkan bahawa dua (2) gred keahlian baharu iaitu Teknologis Kejuruteraan dan Juruteknik Kejuruteraan telah dilancarkan secara rasmi pada 3 April 2021.

5.9 Garis Panduan IEM Baharu untuk Industri

MAT mengambil maklum bahawa IEM telah memperkenalkan garis panduan baharu – "Guidelines on Fire Protection Testing and Commissioning Procedure" untuk penggunaan industri. Garis Panduan ini akan dijual tidak lama lagi.

5.10 Impak Pandemik COVID-19

Setiausaha Kehormat seterusnya melaporkan bahawa Tinjauan No. 4 telah dijalankan untuk Sesi 2020/2021 untuk mengukur Impak PKP dan wabak COVID-19 terhadap ahli IEM selepas tamat tempoh moratorium. Namum hanya 669 orang ahli telah mengemukakan maklum balas. Walaubagaimanapun, laporan itu boleh didapati di laman web IEM.

Sebagai tambahan kepada perkara di atas, sebanyak 18 surat pekeliling IEM telah dikeluarkan dengan maklumat berkaitan pakej insentif oleh kerajaan, garis panduan terkini daripada agensi kerajaan dan kemas kini laporan daripada IEM. Maklumat sedemikian boleh didapati daripada laman web IEM.

Ahli IEM digesa menjawab tinjauan yang dikeluarkan oleh IEM bagi membolehkan IEM mempunyai data yang lebih baik untuk mengemukakan cadangan kepada kerajaan demi manfaat kepada semua ahli.

5.11 Perkhidmatan Sekretariat IEM

MAT juga dimaklumkan bahawa Sekretariat telah mula bekerja dari pejabat. Setiausaha Kehormat seterusnya memaklumkan bahawa sekiranya mana-mana ahli ingin menghubungi kakitangan Sekretariat yang tertentu, mereka boleh menghantar e-mel kepada kakitangan tersebut atau menelefon untuk membuat temu janji. Ini disebabkan terdapat keperluan untuk mematuhi Prosedur Operasi Standard ketika mana-mana ahli ingin berjumpa dengan kakitangan di pejabat.



5.12 Sesi Soalan

5.12.1 Ir. Chong Chai Thiam (M49218) bertanya tentang perbezaan antara Teknologis Profesional dari MBOT dengan Teknologis Kejuruteraan.

Yang DiPertua menjelaskan bahawa terdapat dua (2) Akta berkaitan perkara ini; satu daripada Lembaga Jurutera Malaysia (BEM) iaitu Akta Pendaftaran Jurutera 1967 (REA) yang dipinda pada tahun 2015 untuk memasukkan teknologis kejuruteraan dan juruteknik kejuruteraan manakala satu lagi adalah Lembaga Teknologis Malaysia (MBOT) untuk ahli teknologi dan juruteknik yang diletakkan di bawah Kementerian Sains, Teknologi dan Inovasi (MOSTI).

MAT selanjutnya dimaklumkan bahawa teknologis kejuruteraan dan juruteknik kejuruteraan yang mempunyai kelayakan yang diiktiraf untuk berdaftar dengan BEM manakala graduan teknologis bukan kejuruteraan layak berdaftar dengan Lembaga Teknologis Malaysia (MBOT).

5.12.2. Ir. Lim Chiau Wu (M15583) mencadangkan bahawa selain daripada BOMBA, IEM harus menyenaraikan lebih banyak Pihak Berkuasa dalam halaman Authorities Having Jurisdiction (AHJ)" dalam laman web IEM seperti TNB, SPAN, Suruhanjaya Tenaga dan lain-lain.

Yang DiPertua mengambil maklum cadangan itu dan akan meneliti lebih banyak penerbitan garis panduan selain daripada "Testing and Commissioning of Fire Protective System" seperti yang dinyatakan sebelum ini dalam laporannya dalam masa terdekat.

5.12.3 Ir. Sundraraj a/l A. Krishnasamy (F07933) mencadangkan bahawa peranan yang dimainkan oleh wakil IEM yang berkhidmat dalam Lembaga Jurutera Malaysia (BEM) juga perlu disebut dalam laporan Setiausaha Kehormat.

Cadangan tersebut telah diambil maklum.

5.12.4 Ir. Murthy a/l Ramarao (M42456) mempersoalkan samada terdapat sebarang langkah yang akan diambil oleh IEM untuk membantu jurutera yang pekerjaan mereka terjejas akibat pandemik COVID-19.

Sebagai jawapan kepada soalan itu, MAT dimaklumkan bahawa IEM telah mengedarkan empat (4) tinjauan kepada ahli IEM berkenaan kesejahteraan mereka semasa wabak itu. Keputusannya telah diterbitkan dalam Surat Pekeliling No. 18. Dalam Analisa yang telah dibuat, kira-kira 23% daripada ahli IEM telah terjejas dari segi kewangan akibat pandemik COVID-19.

Sehubungan itu, IEM telah mengambil inisiatif untuk mengumpulkan maklum balas yang diterima dan dimajukan kepada kerajaan melalui komunikasi bertulis serta semasa perbincangan mesyuarat. Antara cadangan yang dikemukakan kepada kerajaan adalah untuk mewujudkan lebih banyak projek untuk jurutera, menyediakan bantuan kewangan seperti akses internet percuma untuk menghadiri mesyuarat dalam talian serta menyertai pelbagai webinar latihan untuk meningkatkan kemahiran sedia ada. Di samping itu, IEM juga telah mencadangkan dalam surat kepada kerajaan untuk menaikkan subsidi gaji kepada RM4.000 untuk jurutera.

Selain itu, MAT juga dimaklumkan bahawa bahagian Galeri Pekerjaan dalam laman web IEM membolehkan majikan yang sedang mencari jurutera memaparkan iklan mereka dan begitu juga sebaliknya bagi jurutera yang sedang mencari pekerjaan juga boleh melihat Jawatan Kosong yang sedia ada. Ahli yang berminat untuk jawatan kosong boleh menghantar maklumat mereka untuk diposkan dalam "IEM Resume Bank".

5.12.5 Ir. Dr Jayaseelan Nadarajah (F14445) mempersoalkan bagaimana IEM akan mengenal pasti samada seorang ahli seumur hidup telah meninggal dunia dan adakah rekod ahli itu akan terus menjadi sebahagian daripada statistik.

Yang DiPertua menjelaskan bahawa IEM biasanya akan menerima maklumat daripada waris ahli yang telah meninggal dunia melalui e-mel atau panggilan berhubung kematian ahli. Selain itu, Sekretariat IEM juga akan melalui bahagian obituari akhbar mendapat tahu berkenaan perkara tersebut. Setelah pengesahan diterima, nama ahli akan dialih keluar daripada data keahlian aktif IEM.

5.12.6 Sdr. Ooi Wei Chien (S108160) memohon pencerahan bagaimana beliau boleh menyumbang kepada IEM sebagai ahli siswazah.



Yang DiPertua memaklumkan bahawa beliau boleh menyertai Bahagian Jurutera Muda (YES) kerana mereka menjalankan aktiviti yang akan memberi manfaat kepada ahli. Di samping itu, beliau juga boleh memohon untuk menjadi ahli "ASEAN Engineering Register" supaya mendapat pendedahan kepada negara ASEAN yang lain.

Memandangkan tiada sebarang komen atau pertanyaan lanjut daripada para ahli yang hadir samada melalui dalam talian dan yang berada di auditorium, YBhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik (HF09157) mencadangkan Laporan Tahunan itu diterima. Usul itu disokong oleh Y.Bhg. Dato' Ir. Ahmad Murad bin Omar (F04741).

6.0 AKAUN BAGI TAHUN BERAKHIR 31 DISEMBER 2020

Yang DiPertua kemudian menjemput Bendahari Kehormat, Ir. Chen Harn Shean untuk membentangkan penyata kewangan untuk Institusi Jurutera Malaysia bagi tempoh 1 Januari 2020 hingga 31 Disember 2020. Ir. Chen Harn Shean memaklumkan MAT bahawa akaun yang dibentangkan adalah dari muka surat 143 hingga 174.

6.1 Bendahari Kehormat memaklumkan MAT bahawa penyata kewangan yang dibentangkan terdiri daripada tiga (3) set akaun iaitu IEM, IEM Training Centre Sdn Bhd dan IEM Academy Sdn Bhd. Beliau juga memaklumkan bahawa penyata kewangan tersebut tidak termasuk akaun bagi cawangan. Penggabungan akaun semua cawangan dibentangkan secara berasingan di muka surat 173 – 174.

MAT juga dimaklumkan bahawa ruang bertajuk "Kumpulan" merujuk kepada akaun yang telah digabungkan iaitu IEM, IEM Training Centre Sdn Bhd dan IEM Academy Sdn Bhd.

- Bendahari Kehormat melaporkan bahawa jumlah pendapatan bagi tahun 2020 adalah RM4,960,180, penurunan sebanyak 1.08% berbanding tahun 2019 berjumlah RM5,014,556. MAT juga dimaklumkan bahawa berdasarkan bajet yang diluluskan pada Jun 2020, jumlah pendapatan hanya dijangka mencapai RM3,937,789. Ini menunjukkan pencapaian 26% lebih baik daripada bajet.
- 6.3 Bendahari Kehormat seterusnya melaporkan terdapat penurunan sebanyak 4.0% pada jumlah kutipan yuran keahlian iaitu 87% pada 2020 berbanding 91% pada 2019.

MAT juga difahamkan bahawa berdasarkan bajet untuk 2020 yang diluluskan oleh Majlis pada Jun 2020, kutipan yuran keahlian bagi tahun 2020 dijangka berjumlah RM2,650,000; prestasi sebenar adalah 11% lebih baik daripada bajet tersebut.

- Berdasarkan perbandingan pendapatan, Bendahari Kehormat seterusnya memaklumkan bahawa terdapat peningkatan sebanyak 10% dari pendapatan sewa, 40% peningkatan dari pendapatan pelbagai lain dan peningkatan 240% dalam levi timbangtara. Walau bagaimanapun, terdapat penurunan masingmasing sebanyak 33.8%, 19% dan 21% dari pendapatan faedah deposit tetap, komisen kad kredit dan perkhidmatan Institusi.
- Bendahari Kehormat seterusnya melaporkan jumlah perbelanjaan bagi tahun 2020 adalah RM4,983,593, penurunan sebanyak 3.6% berbanding tahun 2019 iaitu RM5,170,734. MAT juga dimaklumkan bahawa perbelanjaan yang diperuntukkan dalam bajet untuk 2020 adalah RM5,100,303 menunjukkan penjimatan sebanyak 2.4%.

Penyumbang utama kepada perbelanjaan ialah emolumen Secretariat (49%), penyelenggaraan bangunan (22%), perbelanjaan pentadbiran (13%), Subsidi cawangan (10.6%), yuran keahlian dihapuskan (3%) dan susutnilai peralatan (2%).

MAT juga diberitahu bahawa penjimatan perbelanjaan adalah terutamanya daripada bahagian pentadbiran seperti perkhidmatan mel, percetakan pejabat dan alat tulis, pos dan perkhidmatan perakaunan.

6.6 MAT turut dimaklumkan bahawa beberapa Jawatankuasa tidak dapat menunjukkan prestasi seperti yang diharapkan seperti Aktiviti disebabkan pertandingan golf dan majlis makan malam tahunan IEM tidak dapat dianjurkan dan juga bagi Jawatankuasa Tetap Kemasukan dan Latihan Amali disebabkan kekurangan permohonan yang diterima.

Bendahari Kehormat juga melaporkan bahawa pendapatan yang dijangka daripada TD/SIG/Seksyen bagi tahun 2020 adalah sebanyak RM100,000. Bagaimanapun, disebabkan kejayaan webinar, jumlah pendapatan yang dapat dijana berjumlah RM181,583, iaitu 82% lebih tinggi daripada jangkaan.



6.7 Prestasi keseluruhan Institusi adalah defisit sebanyak RM23,414 untuk tahun 2020 berbanding RM212,933 pada tahun 2019. Ini adalah peningkatan yang ketara berbanding tahun 2019.

Berkenaan dengan prestasi anak-anak syarikat, MAT dimaklumkan bahawa IEM Training Centre Berjaya memperolehi keuntungan sebanyak RM975,422 terutamanya disebabkan oleh WTC2020 manakala keuntungan yang dijana oleh IEM Academy Sdn Bhd ialah RM115,880 juga disebabkan oleh perkhidmatan yang diberikan kepada penganjur WTC2020.

6.8 MAT mengambil maklum bahawa beberapa Cawangan mempunyai lebihan pendapatan seperti Kedah/ Perlis, Kelantan, Terengganu, Pahang, Melaka dan Sarawak. Dimaklumkan lagi bahawa lebihan tinggi daripada Cawangan Sarawak adalah berikutan pengiktirafan kutipan derma bagi Building Fund berjumlah RM555,000.

Yang DiPertua kemudiannya mengucapkan terima kasih kepada Bendahari Kehormat atas laporannya dan terus menjemput soalan daripada para ahli. Ahli yang hadir dalam talian diminta klik pada ikon "RAISE HAND" sekiranya mereka ingin bertanya sebarang soalan.

6.9 Sesi Soalan - Akaun

6.9.1 Ir. Fam Yew Hin (F20926) menyatakan kenyataan Bendahari Kehormat bahawa perbelanjaan aktiviti berkurangan kerana tiada kejohanan golf dan makan malam tahunan dianjurkan. Bagaimanapun, Ir. Fam mengulas bahawa kedua-dua acara tersebut sebenarnya telah menjana keuntungan untuk IEM sebelum 2020.

Ir. Yap Soon Hoe (F04086) mengulas bahawa kemudahan-kemudahan di Wisma IEM kurang digunakan dan mencadangkan bahawa IEM harus menambahbaik Wisma IEM agar lebih kondusif untuk kegunaan ahli. Beliau seterusnya menambah bahawa IEM perlu mengkaji pulangan pelaburan (ROI) memandangkan IEM telah membelanjakan RM200,000 untuk pengubahsuaian itu.

Yang DiPertua memaklumkan kepada MAT bahawa terdapat rancangan untuk memindahkan perpustakaan dari Bangunan Ingenieur ke tingkat Mezanin Wisma IEM. Selain itu, terdapat juga cadangan untuk mengambil katerer tetap untuk ditempatkan di D'Place. Walau bagaimanapun, cadangan ini hanya akan dapat dilaksanakan sebaik sahaja pandemik berakhir kerana terdapat keperluan untuk IEM mematuhi SOP buat masa ini.

Yang Dipertua bersetuju untuk membentangkan cadangan itu kepada Jawatankuasa Kerja untuk perbincangan lanjut.

Oleh kerana tiada soalan lanjut daripada ahli, Ir. Dr. Tan Chee Fai (F18343) mencadangkan penerimaan Penyata Kewangan IEM bagi tahun berakhir 31 Disember 2020. Usul itu disokong oleh Ir. Dr. Bhuvendhraa Rudrusamy (F26383). MAT kemudiannya mengesahkan penerimaan Penyata Kewangan tersebut.

7.0 PENYATA KEWANGAN DANA PENDIDIKAN – 31 DISEMBER 2020

Bendahari Kehormat kemudiannya meneruskan laporan Penyata Kewangan Dana Pendidikan bagi tahun berakhir 31 Disember 2020 dari mukasurat 176 hingga mukasurat 184.

- 7.1 MAT dimaklumkan bahawa sumbangan yang diterima berjumlah RM55,826 pada tahun 2020 berbanding RM113,123 pada tahun 2019. Sumbangan yang diterima ini termasuk RM50,000 sumbangan Bahagian Teknikal Kejuruteraan Geoteknik untuk menubuhkan Biasiswa Memorial TT Chiam.
- 7.2 Bendahari Kehormat melaporkan bahawa dalam perbelanjaan, biasiswa yang diberikan pada tahun 2020 adalah RM53,500.
- 7.3 MAT juga dimaklumkan bahawa lebihan keseluruhan ialah RM11,964 berbanding RM20,721 pada 2019. Bagi tahun 2020, Dana Pendidikan berjaya mematuhi peraturan perbelanjaan 50% yang diwajibkan oleh Lembaga Hasil Dalam Negeri (LHDN) bagi Akaun yang Dikecualikan Cukai.
- 7.4 Bagi kedudukan kewangan keseluruhan Dana Pendidikan, MAT mengambil maklum terdapat penurunan sebanyak 0.1% bagi deposit tetap, tunai dalam bank dan tunai runcit berjumlah RM1,860,218 manakala Dana Terkumpul ialah RM2,556,152 yang mencatatkan peningkatan sebanyak 0.5% berbanding dengan 2019.

Oleh kerana tiada soalan daripada pihak ahli, Y.Bhg. Dato' Ir. Dr. Ahmad Anuar bin Othman (F13148) mencadangkan penerimaan penyata kewangan Dana Pendidikan bagi tahun berakhir 31 Disember 2020 dan usul itu disokong oleh Ir. Yap Soon Hoe (F04086). MAT kemudiannya menerima penyata kewangan Dana Pendidikan tersebut.

8.0 PENGUMUMAN KEPUTUSAN e-BALLOTING MAJLIS 2021/2022

Yang DiPertua memaklumkan kepada MAT bahawa buat pertama kali dalam sejarah IEM, "e-Balloting" telah dijalankan untuk Pemilihan Majlis - Sesi 2021/2022 dari 1 Mac 2021 hingga 3 April 2021. Yang DiPertua kemudiannya menjemput Pegawai Pemilihan, Y.Bhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul Abdullah untuk mengumumkan keputusan pemilihan bagi sesi 2021/2022.

8.1 Yang DiPertua

Y.Bhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul Abdullah memaklumkan MAT bahawa Ir. Ong Ching Loon akan meneruskan tahun keduanya dalam jawatan Yang DiPertua untuk Sesi 2021/2022 mengikut Seksyen 5.2 Undang-undang Kecil IEM.

8.2 Naib Yang DiPertua

Pegawai Pemilihan juga memaklumkan bahawa sepertimana dengan tempoh perlantikan dua tahun bagi jawatan Yang DiPertua, Ir. Prof. Dr. Norlida binti Buniyamin kekal sebagai Timbalan Yang DiPertua bagi Sesi 2021/2022.

8.3 Jawatan Kosong Majlis Sesi 2021/2022

Pegawai Pemilihan kemudiannya memaklumkan MAT mengenai pelbagai kekosongan jawatan Majlis seperti berikut:

- Naib Yang DiPertua 4 kekosongan untuk 2 sesi
- Setiausaha Kehormat 1 kekosongan untuk 1 sesi
- Bendahari Kehormat 1 kekosongan untuk 1 sesi

Ahli Majlis

Wakil Kimia - 1 kekosongan untuk 3 sesi

Ahli Majlis - Wakil Biasa

10 kekosongan untuk 3 sesi

8.4 Naib Yang Di Pertua, Setiausaha Kehormat, Bendahari Kehormat dan Lain-lain

MAT juga dimaklumkan bahawa jawatan berikut tidak memerlukan pengundian kerana hanya terdapat seorang calon:

8.4.1 Jawatan Setiausaha Kehormat (Satu (1) kekosongan untuk sesi 2021/2022)

Ir. Dr. David Chuah Joon Huang telah dipilih tanpa bertanding untuk jawatan Bendahari Kehormat untuk satu (1) Sesi 2021/2022.

8.4.2 Jawatan Ahli Majlis – Wakil Kimia (Satu (1) kekosongan untuk tiga (3) sesi, 2021/2022, 2022/2023, 2023/2024)

Tiada pencalonan diterima untuk jawatan ini. Jadi, mengikut Undang-Undang Kecil Seksyen 5.11, Majlis IEM pada mesyuarat ke-424 yang diadakan pada 18 Januari 2021 mencalonkan Ir. Dr. Chong Chien Hwa sebagai calon jawatan ini – Wakil Chemical untuk tiga (3) Sesi bagi 2021/2022, 2022/2023, 2023/2024.

- 8.4.3 Pegawai Pemilihan kemudiannya menerangkan dengan lebih lanjut prosedur bagi jawatan berikut yang memerlukan pengundian:
 - Naib Yang DiPertua
 - Bendahari Kehormat
 - Ahli Majlis Wakil Biasa



Pegawai Pemilihan memaklumkan bahawa e-mel dan SMS dengan pautan untuk e-Ballot bagi jawatan yang dinyatakan di atas yang memerlukan undian telah dihantar kepada seramai 12,122 Ahli Korporat yang layak mengundi terdiri daripada 11,841 yang menetap di dalam negara dan 371 yang menetap di luar negara.

E-mel dan SMS (SMS hanya untuk ahli yang menetap dalam negara) dengan pautan e-Ballot telah dihantar pada 1 Mac 2021. Tarikh tutup penyerahan e-Ballot adalah pada 3 April 2021 jam 10.00 pagi di mana pengundian akan ditutup secara automatik oleh program. MAT juga mengambil maklum bahawa keputusan pengundian dijana pada jam 11.00 pagi kerana terdapat acara – pelancaran dua (2) gred keahlian baharu; Teknologis Kejuruteraan dan Juruteknik Kejuruteraan yang diadakan pada masa yang sama pada hari yang sama. Pegawai Pemilihan kemudiannya melaporkan keputusan undian seperti berikut:

8.4.4 Jawatan Naib Yang DiPertua (Empat (4) kekosongan untuk dua sesi 2021/2022 dan 2022/2023)

Empat (4) orang calon seperti berikut dengan jumlah undian tertinggi telah dipilih untuk jawatan Naib Yang DiPertua bagi sesi 2021/2022 dan 2022/2023.

- 1. Ir. Yau Chau Fong
- 2. Ir. Mohd. Aman bin Idris
- 3. Y.Bhg. Dato' Ir. Ahmad Murad bin Omar
- 4. Ir. Chen Harn Shean

8.4.5 Jawatan Bendahari Kehormat (Satu (1) kekosongan bagi sesi 2021/2022)

Terdapat lima (5) pencalonan yang diterima untuk satu (1) kekosongan itu. Calon Ir. Fam Yew Hin menerima jumlah undian tertinggi dan dipilih untuk jawatan Bendahari Kehormat bagi sesi 2021/2022.

8.4.6 Jawatan Ahli Majlis – Wakil Biasa (Sepuluh (10) kekosongan untuk tiga (3) sesi, 2021/2022, 2022/2023, 2023/2024)

Pegawai Pemilihan seterusnya melaporkan bahawa terdapat empat belas (14) pencalonan yang diterima dan sepuluh (10) calon berikut dengan jumlah undian tertinggi telah dipilih sebagai Ahli Majlis - Wakil Biasa bagi sesi 2021/2022, 2022/2023 dan 2023/2024:

- 1. Ir. Dr. Siti Hawa binti Hamzah
- 2. Ir. Chen Harn Shean
- 3. Ir. Dr. Tan Chee Fai
- 4. Ir. Mah Way Sheng
- 5. Ir. Dr Zuhaina binti Zakaria
- 6. Ir. Lee Cheng Pay
- 7. Ir. Dr. Kannan a/I M Munisamy
- 8. Ir. Dr. Siow Chun Lim
- 9. Ir. Wong Chee Fui
- 10. Ir. Dr. Hum Yan Chai

Pegawai Pemilihan kemudiannya mengucapkan tahniah kepada semua calon yang berjaya.

8.4.7 MAT selanjutnya dimaklumkan bahawa proses pemilihan tersebut meliputi tempoh kira-kira lima (5) bulan dan kos keseluruhan ialah RM2,385.00 (kos penghantaran SMS) tidak termasuk kos kakitangan IEM. Ini merupakan penjimatan yang ketara berbanding tahun lepas di mana jumlah kos ialah RM40,511.05.

MAT juga dimaklumkan bahawa jumlah pautan e-Ballot yang dihantar melalui e-mel kepada ahli Korporat pada tahun ini ialah 12,122.

Pegawai Pemilihan juga memaklumkan bahawa jumlah e-Ballot yang dipulangkan tahun ini adalah yang paling rendah sejak 10 tahun lepas. Terdapat kira-kira 87% ahli masih tidak menyerahkan undi mereka bagi memilih calon untuk mewakili kepentingan mereka di Majlis IEM. Namun begitu, Pegawai Pemilihan memaklumkan bahawa beliau dan para pemeriksa akan bekerjasama dengan Sekretariat IEM untuk meneliti dan mencari cara untuk meningkatkan angka ini dalam pemilihan akan datang.

8.4.8 Pegawai Pemilihan kemudiannya mengucapkan terima kasih kepada Pemeriksa, Ir. Prof. Dr. Zainal Abidin bin Ahmad, Ir. Hj. Mohd Ali Yusoff, Ir. S. Kukanesan dan Ir. Prof. Dr. Leong Wai Yie atas bantuan mereka. Ucapan terima kasih juga dirakamkan kepada Sekretariat IEM atas kerjasama penuh serta pihak Majlis atas sokongan yang diberikan.

Yang DiPertua mengucapkan terima kasih kepada Y.Bhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul Abdullah atas jasa dan sokongan beliau dalam menjalankan proses pemilihan IEM.



9.0 PENYAMPAIAN ANUGERAH

Yang DiPertua kemudian mengumumkan bahawa mengikut tradisi yang ditetapkan untuk beberapa tahun kebelakangan ini, beberapa anugerah akan disampaikan semasa Mesyuarat Agung Tahunan.

9.1 Anugerah Mentor Terbaik 2020

Mesyuarat Agung Tahunan dimaklumkan bahawa Anugerah Mentor Terbaik IEM telah diperkenalkan pada tahun 2019 sebagai sebahagian daripada pengiktirafan IEM terhadap sumbangan mentor IEM dalam program "Engineering Competency Development (ECD)". Untuk anugerah ini, Mentee akan menyerahkan pencalonan Mentor mereka. Berikut adalah nama-nama Mentor yang telah dicalonkan oleh Mentee mereka:

No	Nama	No Keahlian	Disiplin
1	Ir. Dr. Mui Kai Yin	M18773	Mekanikal
2	Ir. Chuan Rhun Riang	M26229	Elektrikal
3	Ir. Dr. Eow John Son	M23840	Kimia
4	Ir. Chan Chor Laup	M9238	Mekanikal
5	Ir. Dr. Edwin Jong Nyon Tchan	F18877	Metallurgy

Disebabkan keperluan untuk penjarakan fizikal dan sekatan perjalanan di antara negeri, anugerah akan dihantar kepada Mentor secara berasingan.

9.2 Projek Akhir Tahun Tan Sri Ir. Hj Yusoff Ibrahim untuk 2020

Mesyuarat Agung Tahunan mengambil maklum bahawa pemenang Projek Tahun Akhir Tan Sri Ir. Hj Yusoff Ibrahim untuk 2020 ialah Martin Mo Shuen Ching dari Universiti Curtin Malaysia dengan topik "A Methodology to Improve Production From Unconventional Reservoirs Through Stimulation".

MAT juga dimaklumkan bahawa pemenang tempat ke-3 ialah Shams Khaled Elhosseny Ghazy Essawy dari Universiti Notthingham Malaysia manakala pemenang tempat ke-2 ialah Jason Chia dari Universiti Multimedia.

Manakala, pemenang-pemenang hadiah saguhati adalah:

- 1. Chew Yuin Yee dari Universiti Tunku Abdul Rahman (UTAR)
- 2. Koay Hsien Wern dari University of Notthingham Malaysia
- 3. Oon Chee Yee dari Monash University Malaysia

9.3 Anugerah Jurutera Muda IEM 2021

Yang DiPertua dijemput ke pentas untuk menyampaikan Anugerah Jurutera Muda IEM 2021 kepada pemenang iaitu Ir. Dr. Lai Khin Wee.

10.0 AHLI MAJLIS YANG BERSARA

- 10.1 Ahli-ahli Majlis berikut yang akan bersara selepas MAT telah dijemput ke pentas untuk menerima tanda penghargaan dari Yang DiPertua.
 - Y.Bhg. Dato' Ir. Nor Hisham Mohd Ghazali
 - 2. Ir. Steven Toh Chin Kok
 - 3. Ir. Dr. Jeyanthi Ramasamy
 - 4. Ir. Dr. Lee Yun Fook
 - 5. Ir. Mohmad Asari bin Daud
 - 6. Ir. Dr. Lai Khin Wee
 - 7. Ir. Simon Yeong Chin Chow
 - 8. Ir. Dr. Oh Seong Por
- 10.2 Mesyuarat Agung Tahunan dimaklumkan bahawa ahli-ahli Majlis berikut yang akan bersara pada sesi ini tidak dapat hadir untuk menerima tanda penghargaan kerana sekatan perjalanan antara negeri dan juga disebabkan komitmen yang lain. Walau bagaimanapun, tanda penghargaan akan dihantar kepada mereka selepas Mesyuarat Agung Tahunan selesai.

- 1. Y.Bhg. Dato' Ir. Dr. Gue See Sew
- 2. Ir. Dr. Wang Hong Kok
- 3. Y.Bhg. Dato' Ir. Fakharazi bin Wahijan
- 4. Ir. Dr. Lee Tin Sin
- 5. Ir. Yasotha Ramanchandran Chetty
- 6. Ir. Yim Hon Wa
- 7. Y.Bhg. Dato' Seri Ir. Dr. Zaini bin Ujang
- 8. Ir. Yam Teong Sian
- 9. Ir. Yau Ann Nian
- 10. Ir. Abdullah Zawawi bin Mohamad Noor
- 11. Ir. Haidel Heli

11.0 MANTAN YANG DIPERTUA

Yang DiPertua kemudian memaklumkan bahawa Majlis telah menjemput mantan-mantan Yang DiPertua berikut untuk berkhidmat bagi sesi akan dating dan mereka telah bersetuju dan menerima pelawaan tersebut.

- Y.Bhg. Academician Tan Sri Datuk Ir. (Dr.) Hj. Ahmad Zaidee bin Laidin
- Y.Bhq Dato' Paduka Ir. (Dr.) Hi Keizrul bin Abdullah
- Y.Bhg. Academician Tan Sri Dato' Ir. Prof. Dr. Chuah Hean Teik
- Y.Bhg. Dato' Ir. Lim Chow Hock
- Ir. Dr. Tan Yean Chin

Yang DiPertua kemudiannya mengucapkan terima kasih kepada semua mantan-mantan Yang DiPertua di atas sumbangan dan sokongan yang tidak berbelah bahagi mereka pada sesi yang lalu dan berharap mereka akan terus menyokong dan membimbing IEM pada masa hadapan.

12.0 PEMILIHAN JURUAUDIT DALAMAN KEHORMAT

Yang DiPertua kemudian meneruskan pemilihan untuk pencalonan bagi jawatan Juruaudit Dalaman Kehormat. Beliau seterusnya memaklumkan Meyuarat Agung Tahunan bahawa juruaudit dalaman pada sesi lepas ialah Ir. Sreedaran Raman (M38681) dan Ir. Yau Chau Fong (F20215). Bagaimanapun, Ir. Yau Chau Fong telahpun terpilih sebagai Naib Yang Dipertua dan oleh itu, tidak akan dapat berkhidmat sebagai Juruaudit Dalaman. Sehubungan itu, terdapat keperluan untuk mencalonkan Juruaudit Dalaman Kehormat bagi Sesi 2021/2022.

Ahli yang hadir kemudiannya dinasihatkan untuk klik pada ikon "RAISE HAND" sekiranya mereka ingin membuat pencalonan.

Ahli-ahli yang dicalonkan adalah seperti berikut:

Ca	lon	Pencadang	Penyokong
1.	Steven Toh Chin Kok (M21175)	Ir. Prof. Dr. Leong Wai Yie (F60691)	Ir. Wong Chee Fui (F20903)
2.	Ir. Dr. Lee Yun Fook (F38707)	Ir. Chen Harn Shean (F23894)	Ir. Yau Chau Fong (F20215)
3.	Ir. Dr. Wang Hong Kok (F02364)	Ir. Prof. Dr. Jeffrey Chiang Choong Luin (F20286)	Ir. Mohd Aman bin Hj. Idris (F02176)
4.	Ir. Sreedaran Raman (M38681)	Y.Bhg. Dato' Paduka Ir. (Dr.) Hj. Keizrul bin Abdullah (HF01691)	Ir. Dr. Jeyanthi Ramasamy (M29131)

Ir. Ng Yong Kong (F05043) mencadangkan pencalonan ditutup dan usul itu telah disokong oleh Ir. Dr. Bhuvendhraa Rudrusamy (F26383).

Pengundian dilakukan melalui "Survey Monkey" dan Mesyuarat Agung Tahunan meluluskan pemilihan Ir. Steven Toh Chin Kok (M21175) dan Ir. Sreedaran Raman (M38681) sebagai Juruaudit Dalaman Kehormat bagi Sesi 2021/2022.

13.0 UCAPAN YANG DI PERTUA BAGI SESI 2020/2021

Yang DiPertua kemudian dijemput untuk menyampaikan Ucapan bagi sesi 2021 yang bertajuk "IEM CONNECTS".



14.0 PENANGGUHAN MESYUARAT AGUNG TAHUNAN KE 62

Yang DiPertua mengucapkan terima kasih kepada ahli yang menghadiri Mesyuarat Agung Tahunan secara fizikal dan juga dari platform maya.

Yang DiPertua kemudian mengisytiharkan Mesyuarat Agung Tahunan ke-62 ditangguhkan pada jam 11.46 pagi.

Ir. Ong Ching Loon Yang DiPertua

Ir. Assoc. Prof. Dr. David Chuah Joon Huang Setiausaha Kehormat

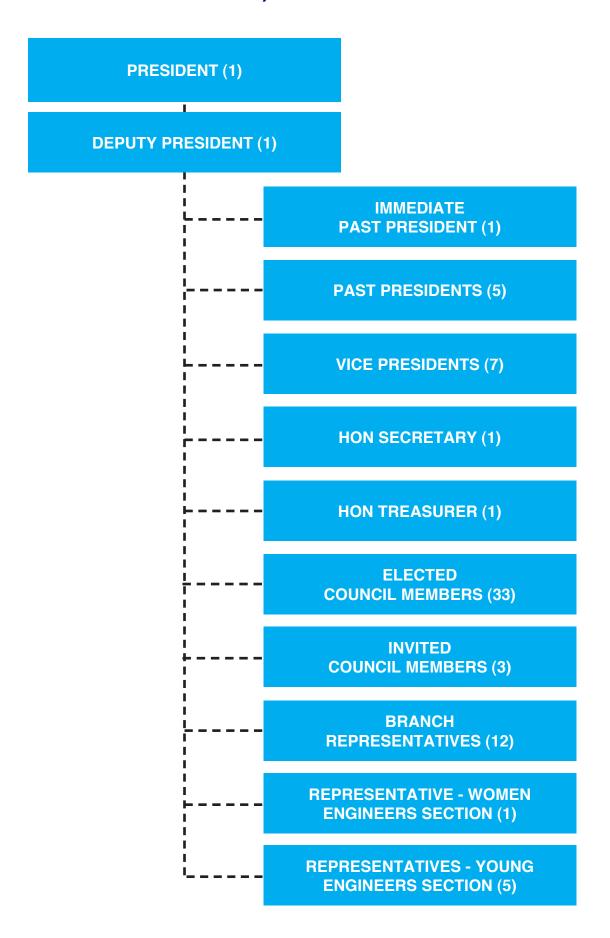
63rd Annual Report





STRUCTURE OF COUNCIL FOR SESSION 2021/2022 Struktur Majlis Untuk Sesi 2021/2022









COUNCIL MEMBERS FOR SESSION 2021/2022 Ahli Majlis Sesi 2021/2022



PRESIDENT



Ir. Ong Ching Loon

DEPUTY PRESIDENT



Ir. Prof. Dr. Norlida

HONORARY SECRETARY



Ir. Assoc. Prof. Dr. David

HONORARY TREASURER



Ir. Fam Yew Hin

VICE PRESIDENTS



Ir. Prof. Dr. Leong Wai Yie



Ir. Mohd Khir bin Muhammad



Ir. Dr. Ruslan bin Hassan



Ir. Yau Chau Fong



Dato' Ir. Ahmad Murad bin Omar



Ir. Chen Harn Shean



Ir. Mohd Aman bin Idris

PAST PRESIDENTS



Ir. David Lai Kong Phooi Immediate Past President



Academician Tan Sri Datuk Ir. (Dr.) Ahmad Zaidee bin Laidin



Dato' Paduka Ir. (Dr.) Haji Keizrul bin Abdullah



nician Tan Sri Dato Ir. Prof. Dr. Chuah Hean Teik



Dato' Ir. Lim Chow Hock



Ir. Dr. Tan Yean Chin

COUNCIL MEMBERS - DISCIPLINE REPRESENTATIVES





Ir. Gunasagaran Kristnan - Structural



Ir. Francis Xavier Jacob - Electrical



Ir. Dr. Aidil Chee Tahir - Mechanical





Ir. Dr. Chong Chien Hwa - Chemical



Ir. Dr. Bhuvendhraa Rudrusamy - Other Discipline

COUNCIL MEMBERS - ORDINARY REPRESENTATIVES







Ir. Lee Cheng Pay







Ir. Dr. Kannan Munisamy



Dato' Ir. Mohd Azmi bin Ismail



Ir. Mohd Radzi Salleh





Ir. Ng Yong Kong





Ir. Dr. Siow Chun Lim







Ir. Wong Chee Fui



Ir. Dr. Mui Kai Yin





Ir. Dr. Hum



Dato' Ir. Noor Azmi





Ir. Tiong Ngo Pu







Ir. Gopal Narian Kutty



Ir. Yam Teong Sian



Ir. Prof. Dr. Tan Chee Fai



Ir. Lai Sze Ching



Ir. Sundraraj



Dato' Ir. Dr. Ahmad

Ir. Noorfaizah Hamzah

REPRESENTATIVES OF YOUNG ENGINEERS SECTION



Kuugan



Muhammad Ashiq



REPRESENTATIVES FROM IEM BRANCHES

Naveen Kumar





Ir. Bernard Lim Kee Weng *Penang* Branch



Ir. Wong Yee Foong Southern Branch



Branch

Dato' Ir. Wan

Nazari bin

Wan Jusoh

Terengganu Branch

Ir. Chong Chee Yen *Negeri*

Branch

Puvanasvaran

Perumal

Branch

Datoʻ Ir. Janang Ak Bungsu Sarawak Branch



Ir. Jeffrey Ng Vun Ping *Sabah* Branch



. Sean Wong Siong Ung *Miri* Branch



bin Ishak

Branch

Ir. Shaipuddin bin Shapii Kelantan Kedah/Perlis Branch

85





EXECUTIVE COMMITTEE FOR SESSION 2021/2022 Jawatankuasa Kerja Sesi 2021/2022





First Row (Seated) (L to R)

Ir. Fam Yew Hin (Honorary Treasurer), Ir. Prof. Dr. Norlida binti Buniyamin (Deputy President), Ir. Ong Ching Loon (President), Ir. Assoc. Prof. Dr. David Chuah Joon Huang (Honorary Secretary), Ir. Prof. Dr. Zuhaina binti Zakaria

Second Row (Seated) (L to R)

Ir. Dr. Ruslan bin Hassan (Vice President), Ir. Yau Chau Fong (Vice President), Ir. Mohd Khir bin Muhammad (Vice President), Y.Bhg. Dato' Ir. Ahmad Murad bin Omar (Vice President), Ir. Hj. Mohd Aman bin Hj. Idris (Vice President), Ir. Chen Harn Shean (Vice President)

Third Row (L to R)

Ir. Gunasagaran Kristnan, Ir. Prof. Dr. Jeffrey Chiang Choong Luin, Ir. Dr. Aidil Chee Tahir, Ir. Bhuvendhraa Rudrusamy, Ir. Lai Sze Ching, Ir. Dr. Teo Fang Yenn Not in Picture

Ir. Prof. Dr. Leong Wai Yie (Vice President), Ir. Prof. Dr. Tan Chee Fai



IEM SECRETARIAT Urusetia IEM





First Row (Seated) (L to R)

Mr. Loo Weng Soon (Manager), Ms. Sarita Kaur (Senior Manager), Ir. Assoc. Prof. Dr. David Chuah Joon Huang (Honorary Secretary), Ir. Prof. Dr. Norlida binti Buniyamin (Deputy President), Ir. Ong Ching Loon (President), Ir. Fam Yew Hin (Honorary Treasurer), Ms. Ooi Beng Ean (General Manager – Special Projects), Puan Arni Kamilia binti Khalid

Second Row (L to R)

Ms. Valli P. Saminathan (Senior Executive), Cik Farezah binti Junaidi, Cik Norshafiqah binti Sha'ari, Ms. Karen Ng Shiao Yin, Puan Natasha Afzan binti Ahmad Kamal, Puan Rahanum binti Mohamad, Puan Halimah binti Musa, Cik Noor Afzan binti Che Abd. Aziz, Cik Siti Aisyah binti Saaey, Puan Suhana binti Omar, Puan Mirdeeliani binti Amir

Third Row (L to R)

Puan Nurul Ezzaty binti Hosnan, Ms. Prema a/p Silvarajan, Ms. Wong May Lee, Cik Suriani binti Jali, Puan Nur Amaliena binti Zamri, Cik Nur Amira binti Mohidin, Puan Nurul Aida binti Abdul Razak, Puan Fatimah binti Mohd Abd Khadzar, Cik Ratnaidayah binti Zaini

Fourth Row (L to R)

Ms. Parimala a/p Maruthamuthoo, En. Izharuddin Alradzi bin Mohamad Hairani, En. Adam Sofri bin Muhd Sharum, En. Baharuddin bin Mohamad Suhaimin, En. Abdullah bin Anda, En. Azizi bin Ajik, Mr. Gabriel Lim Gwo Shin, Ms. Kimberly Chin Kem Leng

Not in Picture

Ms. Janet Lim Kwai Cheng (Chief Operations Officer), Cik Shahrul Bahariah binti Sulaiman (Senior Manager), Ms. Samantha Hee Siaw Shen (Senior Executive), Ms. Roselein a/p Lodo Samy (Senior Executive), Puan Norimah binti Md. Hashim, Puan Ruhaida binti Daud, Cik Wan Nur Adlina binti Rasidi





SNAPSHOTS OF ACTIVITIES HELD IN SESSION 2021/2022 Gambar Activiti Sesi 2021/2022



















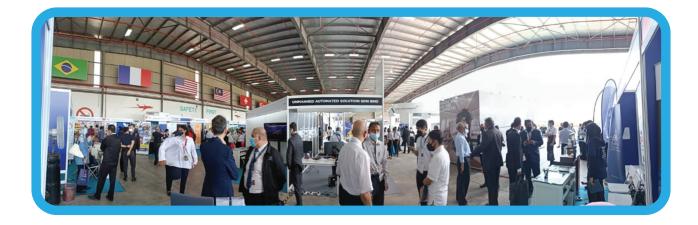






SELANGOR AVIATION SHOW (SAS 2021) INSTITUTION OF ENGINEERS MALAYSIA (IEM) PARTICIPATION Skypark Regional Aircraft Centre, Subang, 27 Nov 2021











- Negeri Sembilan

Melaka

Perak

· Kedah / Perlis

Architecture

- Terengganu

- Pahang



Monitoring Committee - Overseas Liaison and

Representatives to

Benevolent Fund

Family Day

Branches' Activities

Co-ordination of

Activities

Outside Bodies on Engineering

MOUs

Screening Complaints

Representation in

WFEO

• AFEO / AER • FEIIC

 APEC / EMF APCChE

Professional Conduct

Risk Reduction Advisory Board

EM BRANCHES

Southern

- Penang

Sarawak Kelantan

Sabah

Disaster

Investigation on

Registration of Review of the **Engineers Act**

Matters

·CEC

• FEIAP

Courtesy Visits

ORGANISATION CHART - SESSION 2021/2022 Carta Organisasi - Sesi 2021/2022

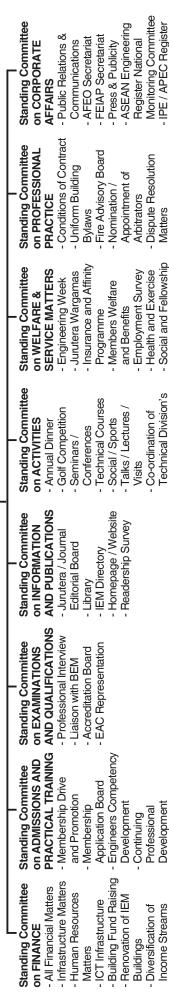
THE COUNCIL

MEMBERS OF THE INSTITUTION

THE EXECUTIVE COMMITTEE

- IEM Awards Committee	- IEM Presidential Committee	- IEM Education Fund Manager
- Special Committee on Amendments to IEM Constitution and Bylaws	- IEM Position Paper Co-ordinating Committee	- ISO Management Review Cor
- Special Committee on COVID-19 Pandemic	- Representation to BEM	

IEM Education Fund Management Board ommittee



Engineering Education Underground Space Project Management - Agricultural & Food **Fransportation** Environmental - Tunnelling & Highway & Electronic **TECHNICAL DIVISIONS** - Public Sector Engineers - Water Resources - Oil, Gas & Mining Building Services Civil & Structural - Marine & Naval Geotechnical Mechanical - Chemical Electrical Consulting Engineering SPECIAL INTEREST Urban Engineering Communications Development Information + **Fechnology** GROUPS - Seniors YOUNG ENGINEERS - Engineering Games Graduate Activities - Various Activities Student Section Student Liaison IEM / IES Meet SECTION **WOMEN ENGINEERS**

SECTION

Register (Admissions

& Registrations)

IPE / APEC

(Admissions & Registrations) Eng. Technologists

ASEAN Engineering

Structured Training





63rd ANNUAL REPORT SESSION 2021/2022 Laporan Tahunan Ke-63 Sesi 2021/2022



1 INTRODUCTION

1.1 It is with great pleasure that I present to you the 63rd Annual Report for session 2021/2022 covering the period 1st April 2021 until 31st March 2022.

2 MEMBERSHIP

2.1 The membership of the Institution as at 1st March 2022 now stands at 46,634. Comparative figures of the last five years are as follows:

Grade	2018	2019	2020	2021	2022
Distinguished Hon. Fellow	2	2	2	2	2
Hon. Fellow	28	28	27	27	27
Fellow	731	739	772	776	787
D. Member	1	1	1	1	1
Hon. Member	8	7	7	7	7
Senior Member	35	39	45	52	54
Member	10,230	11,048	11,647	11,389	10,950
Senior Graduate Member	240	281	320	372	433
Graduate	9,597	9,303	9,441	9,099	8,846
Engineering Technologist Graduate Member	-	-	-	-	81
Engineering Technician Graduate Member	-	-	-	-	18
Incorporated	98	115	120	105	85
Affiliate	28	27	34	29	28
Associate	39	53	59	61	58
Student	24,629	26,969	31,419	25,167	25,257
Total	45,666	48,612	53,894	47,087	46,634

2.1.1 Membership by Branches:

	HF	F	НМ	SM	M	SG	G	ETG	ETnG	IM	Α	AM	S	TOTAL
Kedah-Perlis	0	9	0	1	270	13	289	3	1	1	0	3	1,534	2,124
Penang	1	32	0	4	560	28	506	4	1	4	1	2	1,223	2,366
Perak	1	24	0	3	410	12	526	9	3	12	2	4	2,172	3,178
Kelantan	0	5	0	2	133	4	102	2	1	1	0	0	1,314	1,564
Pahang	0	5	0	1	135	8	206	2	0	2	1	2	1,175	1,537
Terengganu	0	6	0	0	138	7	139	3	0	1	0	0	971	1,265
Sarawak	2	37	0	4	794	28	798	5	1	6	0	5	3,024	4,704
Miri	0	17	1	2	97	6	141	1	0	0	0	1	138	404
Southern	1	56	1	4	662	30	697	4	2	7	1	2	3,903	5,370
Melaka	0	9	0	2	178	9	210	1	1	1	0	0	938	1,349
N. Sembilan	0	13	3	0	297	20	334	5	0	1	0	1	1,158	1,832
Sabah	2	40	0	2	601	11	473	1	1	1	0	1	966	2,099
TOTAL	7	253	5	25	4,275	176	4,421	40	11	37	5	21	18,516	27,792

2.2 Breakdown by discipline is as follows:

Description	DHF	HE	ш	DM	HM	SM	M	SG	g	ETG	ETnG	MI	A	AM	S	TOTAL
Aeronautical	0	0	1	0	0	0	13	3	19	8	1	1	0	0	34	80
Aerospace	0	0	0	0	0	0	4	6	20	6	0	0	0	0	54	90
Agricultural	0	0	4	0	0	0	26	1	28	0	0	0	0	0	11	70
Architectural	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	3



Automotive	0	0	0	0	0	0	1	0	2	4	0	0	0	1	37	45
Biochemical	0	0	0	0	0	0	0	0	10	0	0	0	0	0	15	25
Bioengineering	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2
Biology & Agricultural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Bio-Medical	0	0	1	0	0	0	13	1	36	1	0	1	0	1	169	223
Biotechnology	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2
Building	0	0	0	0	0	0	1	0	0	0	0	0	1	3	0	5
Building Services	0	0	0	0	0	0	13	0	1	1	2	0	0	1	0	18
Cad/Cam	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	3
Chemical	0	0	23	0	0	2	329	34	698	3	0	5	3	1	2070	3168
Civil	0	11	450	0	0	21	5413	144	3341	6	5	18	3	21	6044	15477
Civil & Structural	0	0	0	0	0	0	0	0	2	1	0	0	0	0	4	7
Communication	0	0	1	0	0	0	11	1	13	0	0	0	0	0	40	66
Computer	0	0	1	0	0	1	7	1	22	1	0	1	2	0	77	113
Computer & Communication	0	0	0	0	0	0	5	0	2	0	0	0	0	0	5	12
Computer Systems	0	0	0	0	0	0	1	0	0	0	0	0	1	0	5	7
Computer-Aided	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Construction	0	0	0	0	0	0	3	0	1	1	0	0	0	1	4	10
Control	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Control System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Electrical	1	7	135	1	0	14	2292	56	1474	15	2	17	0	13	3058	7085
Electrical & Electronic	0	0	0	0	0	0	1	1	11	2	2	0	0	0	905	922
Electromechanical	0	0	0	0	0	0	3	0	0	0	0	0	0	0	2	5
Electronic	0	0	13	0	0	1	352	56	586	7	0	19	5	6	3185	4230
Electronic & Radio	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	4
Energy	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3
Environmental	0	0	0	0	0	0	16	1	71	2	0	1	0	0	81	172
Food & Process	0	0	0	0	0	0	2	0	7	0	0	0	0	0	0	9
Fuel	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
General	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	2
Geological	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	4
Geotechnical	0	0	1	0	0	0	28	0	5	0	0	0	2	0	4	40
Highway	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Highway & Transport	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Industrial	0	0	0	0	0	0	9	3	15	0	0	0	0	0	22	49
Information System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Information Technology	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Infrastructure Management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
Instrumentation & Control	0	0	0	0	0	0	62	0	2	1	0	0	0	0	0	65
Manufacturing	0	0	0	0	0	0	41	4	105	1	0	1	0	1	706	859
Manufacturing Systems	0	0	0	0	0	0	1	0	2	0	0	0	0	0	1	4
Marine	0	0	0	0	0	0	17	0	7	2	0	0	0	1	0	27
Materials	0	0	2	0	0	3	24	0	54	0	0	1	2	1	137	224
Mechanical	0	3	138	0	0	11	2040	106	2076	13	5	16	3	5	7271	11687
Mechanical System	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	4
Mechanics	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Mechatronics	0	0	0	0	0	0	10	4	107	4	0	2	0	1	1017	1145
Metallurgy	0	0	1	0	0	0	5	0	9	0	0	0	0	0	1	16
Microelectronic	0	0	0	0	0	0	0	0	3	0	0	1	0	0	1	5
Mineral	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Mineral Processing	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
Mineral Resources	0	0	0	0	0	0	10	0	15	0	0	0	0	0	9	34
Mining	0	0	5	0	0	0	22	2	2	0	0	1	0	0	0	32
Mining & Metallurgy	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
ig a metallargy	ــــّــــ		<u> </u>	ــــّــــا		<u> </u>					ட்	<u> </u>	<u> </u>	<u> </u>		٠ ا



Municipal	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Naval Architecture	0	0	0	0	0	0	13	2	6	2	0	0	1	0	20	44
Nuclear	0	0	1	0	0	0	1	0	0	0	0	0	0	0	11	13
Offshore	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Others	1	6	0	0	7	0	3	0	5	0	1	0	1	0	3	27
Petroleum	0	0	2	0	0	1	9	3	45	0	0	0	0	0	147	207
Polymer	0	0	0	0	0	0	2	0	8	0	0	0	0	0	17	27
Production	0	0	1	0	0	0	9	0	3	0	0	0	0	0	0	13
Structural	0	0	2	0	0	0	48	2	7	0	0	0	0	0	3	62
Systems	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Telecommunication	0	0	0	0	0	0	28	2	10	0	0	0	1	1	34	76
Textile	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Traffic	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Transport	0	0	1	0	0	0	8	0	1	0	0	0	0	0	1	11
Water Resources	0	0	1	0	0	0	30	0	0	0	0	0	0	0	1	32
	2	27	787	1	7	54	10950	433	8846	81	18	85	28	58	25257	46634

2.3 Deaths and resignations during the session are tabulated as follows:

Grade	Deceased	Resigned
Hon. Fellow	1	-
Fellow	10	1
Member	7	14
Graduate	-	49
Incorporated Member	-	1
Student	-	43
Total	18	108

- 2.4 To date, 3,036 members are in arrears of subscription for the year 2021. The total arrears in subscription for this particular year was recorded at RM444,407. The Council would look into deleting their names from the membership register if the arrears were not settled by mid 2022.
- 2.5 For the session under review, a total of 325 members were reinstated. The details are as follows:

Fellow - 1
Member - 63
Senior Graduate - 4
Graduate - 252
Incorporated - 3
Associate - 2

3 THE COUNCIL AND THE EXECUTIVE COMMITTEE

- 3.1 Five Council and thirteen monthly Executive Committee (Excomm) meetings were held during the session to look into the management of the properties and affairs of the Institution.
- 3.2 I wish to thank all members of the Council, Executive Committee, Standing Committees, Branches, Technical Divisions, Special Interest Groups, Sections, Sub Committees, Ad Hoc Committees and other Committees for their participation, contribution and support in the activities of the institution in the furtherance of its objective to promote the science and profession of engineering in the spirit of a learned society.
- 3.3 In the session 2021/2022, the Council set up two Task Force specifically to handle two main issues as follows:
 - i) Task Force on IEM Properties was set up under the chairmanship of Y.Bhg. Dato' Paduka Ir. Hj. Keizrul bin Abdullah to look into enablers for Branches to be allowed ownership of the property purchased through their own fund-raising efforts. A legal firm was engaged to look into the legal issues and the Task Force is still finalizing their proposal which will then be presented to the Council for deliberation.
 - ii) Task Force on Merger of IEM Training Centre Sdn Bhd and IEM Academy Sdn Bhd under the chairmanship of the President. This Task Force completed their task in this session with the setting up of IEM Training Academy (renamed from IEM Training Centre Sdn Bhd) to take over the functions of the two subsidiaries.
- 3.4 I must also express a vote of thanks to the various members who may not have served on the above Committees, but voluntarily served as IEM representatives to the various government bodies and organisations.

4 STANDING COMMITTEE ON FINANCE

4.1 The role of the Standing Committee chaired by the Deputy President, Ir. Prof. Dr. Norlida binti Buniyamin is to conduct the financial management of the properties and affairs of the IEM. Regular meetings were held every 3rd Thursday of the month.

4.2 Main Sources of Income

4.2.1 Annual Subscription

Financing of the operating expenditure of the Institution continue to depend largely on the collection of members' annual subscriptions. For the year 2021, income from annual subscriptions stood at approximately 57.8% of the total income compared to 65.8% in 2020, 70% in 2019, 65% in 2018, 51% in 2017 and 57% in 2016.

In accordance with the Bylaws, reminders to members on their annual subscription payments were sent out by the Institution. For the year 2021, 86.2% of the members had settled their subscriptions by the end of the year. IEM wish to thank all members who had promptly settled their subscriptions.

As at the end of the financial year 2021, 3,036 members are in arrears of subscription for 2021 compared to 3,401 in 2020. The total outstanding collection for the year amounted to RM444,408 compared to RM434,686 in 2020. Due to the pandemic, the annual subscriptions received did not achieve the same performance as in the year prior to the pandemic.

4.2.2 **Rental**

Wisma IEM continue to be rented out to generate income. Merdeka Strategic Development Centre Sdn Bhd's rental of the first and second floor of Wisma IEM was renewed for another two years. However due to the pandemic, rental increase was reduced by 5% for the period April until December 2021. Thereafter, the increase will revert to 10%. Another new tenant, EJAB Engineering Sdn Bhd took about about 1,000sf of space at first floor or Wisma IEM for two years upt to 2023.

The ground floor of Bangunan Ingenieur continue to be rented out to Pizza Hut at a monthly rental of RM15,995.30. Pizza Hut's tenancy was renewed in November 2020 for another three years. However, again due to the pandemic, Pizza Hut was given a 20% reduction in rental to RM12,796 up to December 2021.

4.2.3 Activities Income

In view of the imposition of the various movement control orders and SOPs related to physical distancing and restriction on physical events, IEM embarked on conducting events or activities for members virtually since April 2020. Besides webinars or online courses, IEM also commenced virtual technical visits. Response from IEM members was very encouraging and IEM had managed to sustain the income from this source.

Despite having to resort to organizing activities online for members, the Technical Divisions generated income of RM392,000 for the year 2021. For the year 2019, income generated by the Technical Divisions was RM318,845 while in 2020, the Technical Divisions generated RM181,583. The Standing Committee on Finance wish to thank the Technical Divisions for their efforts.

4.2.4 Diversification of Income Streams

In an effort to reduce IEM's dependency on annual subscriptions, the Standing Committee embarked on an initiative to look into diversification of IEM's income streams. Four possible new income streams were identified namely:

- i) Organising an annual IEM/Engineering Exhibition
- ii) Providing advertising opportunities to generate more income for IEM
- iii) Sale of Publications

For a start, IEM has entered a partnership with exhibition organizer, CIS Network Sdn Bhd to organize an annual IEM Convention where the inaugural event was supposed to have been held in September 2021. However, due to the SOPs imposed, the event had to be postponed to $16^{th}-19^{th}$ March 2022. A brainchild of President, Ir. Ong Ching Loon, this convention comprised of an engineering exhibition cutting across all disciplines under one roof. This 5-year partnership will bring a confirmed annual income of at least RM200,000 to IEM. Besides the exhibition, four other events were held in conjunction with the IEM Convention 2022. The Standing Committee would like to thank all parties for their support and hard work in making this event a success.



On the sale of Publications, the Standing Committee on Professional Practice had completed two sets of Guidelines which are currently on sale:

- IEM Guideline on Testing and Commissioning of Fire Protection Systems
- IEM Guideline on Flood Abatement Equipment Engineering Guide of Designation, Testing and Documentation

These guidelines are now available for sale and members can check with IEM Secretariat for more information.

4.3 Administrative Expenses

In order to control expenses and at the same time, provide adequate services to members, the Standing Committee implements strict but effective budgetary control measures. In view of pandemic and movement control orders in 2021, activities were carried out online and staff had to work from home thereby cutting down a lot of expenses incurred.

4.4 Sub Committee on Human Resources

The Sub Committee chaired by the Honorary Secretary, Ir. Assoc. Prof. Dr. David Chuah Joon Huang continued to look into the recruitment and deployment of staff for the Secretariat. Meetings were regularly held to deal with matters relating to Human Resource of Secretariat. As at 31st December 2021, the Secretariat's staff strength 40 including three staff under the International Office that is financed by AER, FEIAP and APEC Engineers Register.

In 2021, Puan Halimah binti Musa received her Long Service Award for serving twenty-five years in IEM. In the coming session, two other staff will be receiving their Long Service Award as follows:

- Puan Nurul Aida binti Abdul Razak Librarian 10 years award
- Mr. Loo Weng Soon Manager (IT) 25 years award

4.5 Sub Committee on IEM Infrastructure

The Sub Committee chaired by the Honorary Treasurer, Ir. Fam Yew Hin continued to monitor the maintenance and renovation of Bangunan Ingenieur and Wisma IEM. The function of the Sub Committee also covered managing the usage of the meeting rooms, security system of IEM, fire protection, electrical installations, ICT computerisation and networking, general facilities, etc. For the year 2021, the Sub Committee continued to look into improving the facilities for IEM to conduct webinars and virtual meetings.

The Standing Committee acknowledges that there are still some shortcomings to the facilities and will continue to look into further improvement within the constraints of the Institution's finance. On 16th February 2022, IEM launched the UpLIFE Fundraising Campaign to raise funds for improvement to the IEM buildings.

4.6 Sub Committee on IEM IT Infrastructure

Ir. Guansagaran Kristnan continued to chair this Sub Committee tasked to look into the IT Infrastructure of IEM. The Sub Committee is reviewing the contract of the vendor for IEM portal as well as preparing a road map to move the IEM portal to cloud. In addition, the Sub Committee is also working with the Technical Divisions to look into providing videos of past webinars for members to view online.

5 STANDING COMMITTEE ON ADMISSIONS AND PRACTICAL TRAINING

- Ir. Chen Harn Shean was appointed as the new Chairman for the Standing Committee for the session 2021/2022. The main role of this Standing Committee was to scrutinise applications for candidates applying for election/admission/transfer to the various grades of membership. This Standing Committee also worked closely with the Standing Committee on Examinations and Qualifications in organising awareness talks relating to Corporate membership / Professional Engineer and career in engineering.
- 5.2 Up to 31st December 2021, a total of 3,169 candidates were approved for election, admission and transfer to the various grades as listed below:



		2019	2020	2021
(a)	Transferred to the Grade of Distinguished Hon. Fellow	-	-	-
(b)	Elected to the Grade of Hon. Fellow	2	-	2
(c)	Transferred to the Grade of Fellow	18	17	19
(d)	Admitted/Transferred to the Grade of Senior Member	7	8	8
(e)	Approved to sit for the Professional Interview	207	213	145
(f)	Admitted/Transferred to the Grade of Senior Graduate	82	82	115
(g)	Admitted/Transferred to the Grade of Graduate	1,171	972	1,194
(h)	Admitted/Transferred to the Grade of Incorporated Member	23	10	15
(i)	Admitted/Transferred to the Grade of Engineering Technologist Graduate	-	-	83
(j)	Admitted/Transferred to the Grade of Engineering Technician Graduate	-	-	21
(k)	Admitted to the Grade of Affiliate	4	1	1
(l)	Admitted to the Grade of Associate	10	7	13
(m)	Admitted to the Grade of Student	4,563	2,813	1,553
	Total	6,087	4,123	3,167

A total of ninety – five (95) applications had been approved to sit for the Professional Assessment Examination (PAE) for the year 2021.

5.3 Sub-Committee on Membership Applications Board (MAB).

Ir. Dr. Lee Yun Fook continued to chair the Sub-Committee for the fourth session 2021/2022. The Sub-Committee also continued its role of vetting and assessing applications for the various grades of membership of the Institution.

5.3.1 Processing of AER, AAE and IPE/APEC International Engineer Register Applications

The Membership Applications Board also vetted and recommended applications from members for their Asia-Pacific Economic Co-operation Engineer Register / International Professional Engineers Register, ASEAN Engineer, Associate ASEAN Engineer and Associate ASEAN Technologist membership. The following is the breakdown of applications for these Registers:

- 12 approved for the Asia-Pacific Economic Co-operation Engineer Register / International Professional Engineers Register (APEC/Int.PE)
- 12 approved for ASEAN Engineer (AE)
- 15 approved for Associate ASEAN Engineer (AAE)
- 1 approved for Associate ASEAN Technologist (AAET)

5.4 Sub-Committee on Membership Drive and Promotions

Ir. Dr. Aidil Chee Tahir continued to chair the Membership Drive and Promotions Sub-Committee (MDP) for the session 2021/2022 with the mandate to increase IEM membership through various recruitment initiatives.

As in the past, MDP had organized numerous membership drive activities for local and international universities with the objective of raising awareness and creating interest in IEM. Representatives from IEM and MDP delivered talks on topics such as Introduction to IEM, Route to MIEM as well as subjects relating to current issues and developments in the field of engineering. In light of the Movement Control Orders imposed by the Malaysian Government due to the Covid-19 pandemic, MDP had moved towards conducting talks via online webinars and established a Google based membership application platform.

In August 2021, MDP was invited to participate in the Selangor Aviation Show 21 (SAS 2021) organized by the Selangor Aerospace Industry Coordination Office (S-DAICO). During the 2-day event, MDP had the opportunity to meet and share information about IEM with a variety of delegates from both the corporate as well and governmental sector.

Through the initiative efforts of MDP, IEM is set to enter into a memorandum of understanding (MOU) with Xiamen University and with the Association of Malaysia Airlines Licensed Aircraft Engineers (AMALAE). IEM is also in the midst of renewing its MOU with Universiti Teknikal Malaysia Melaka (UTeM).

MDP believes that through its activities and initiatives, IEM will continue to grow and remain an inclusive and relevant organization for all engineering practitioners moving forward.

5.5 Sub Committee on IEM Log Book Training Scheme

The Sub-Committee was chaired by Ir. Mohd Azha bin Abu Samah for session 2021/2022. The primary responsibilities of the Sub-Committee were to assess and confirm the logbooks prepared by the mentees after being reviewed and endorsed by their respective mentors. The logbooks were prepared to record and document the competencies element progress and practical working experience of the mentees' during their career as an engineer. It is also to ensure that the experience obtained can lead the engineer to accumulate



adequate competency elements, experience, and readiness to sit for the Professional Interview. The logbooks are to be in conformance to the requirements of the IEM's Engineering Competency Development (ECD) Guidelines. A total of eighty-eight (88) logbooks were reviewed and recommended for endorsement by the Admission and Practical Training (APT) Standing Committee Chairman in year 2021.

The Sub-Committee has continued conducted various activities as part of the effort to revamp the Mentor-Mentee programme's quality in IEM. The activities recorded are as follows:

(a) Engagement Sessions

For the year 2021, ECD had conducted two (2) ECD Webinar Talks entitled Engineering Competency Development - Your Path to becoming a Professional Engineer which was organized on 16th January 2021 and 24th July 2021. Another two (2) e-Workshops entitled Workshop on Managing Engineering Competency Development (ECD) LogBook had been organized on 10th April 2021 and 9th October 2021.

(b) IEM's Top Mentor Award 2020

The Sub-Committee continue to organise this award as part of the effort to recognize mentors' contribution to the organization. This is an event where mentees can nominate their mentor to be recognized as top mentor in the IEM. Below are the top five (5) winning mentors:

No.	Name	Membership No.	Discipline		
1	Ir. Dr. Mui Kai Yin	M18773	Mechanical		
2	Ir. Chuah Rhun Riang	M26229	Electrical		
3	Ir. Dr. Eow John Son	M23840	Chemical		
4	Ir. Chan Chor Laup	M9238	Mechanical		
5	Ir. Dr. Edwin Jong Nyon Tchan	F18877	Metallurgy		

5.6 **IEM Training Board**

The IEM Training Board chaired by Ir. Li Thang Fai continued to deal mainly on the approval of the training programmes in relation to the requirement of BEM's Continuing Professional Development (CPD) for Professional Engineers.

The main task of the Training Board is to evaluate the training programmes organised by the IEM various Committees and Branches. The Training Board also responsible for the approval of CPD hour application from external training providers. In addition, the Training Board also conducted audits on the selected programmes for verifying conformity.

Records for the year 2021 were summarised as follows:-

	Total application received (nos.)	Total application approved for CPD hours (nos.)	Total CPD hours granted (nos.)
IEM own programmes	528	510	1433
External training providers programmes	76	75	458

5.7 Special Committee on Structured Training

Ir. Mohd. Radzi Salleh continued to chair the Special Committee on Structured Training for session 2021/2022 for the seventh session. The purpose of the Structured Training programme was to assist the graduate members/engineers who lacked design experience to gain the relevant experience to enable them to be eligible to sit for the Outcome Based Professional Interview.

The Special Committee achieved another milestone in 2021 with the structured training courses being conducted fully virtual as well as by hybrid mode due to the Movement Control Order (MCO) in the country.

The Search Committee on Civil Engineering had their very first Virtual 8-Saturday Course in General Infrastructural and Highway Engineering Design which started from 31st July 2021 to 18th September 2021. It was then followed by a 7-Saturday Course on Geotechnical Engineering Design which ended on 19th February 2022. This structured training course was conducted via Hybrid mode for the first time.

The Search Committee on Civil Engineering also planned to conduct another two more modules on "Construction Practice" and "Structural Engineering Design" tentatively in the year 2022.

In addition to the above, the Special Committee is also looking into collaborating with Project Management Institute (PMI) to conduct PMP courses.

5.8 Engineering Technologist and Technician Sub Committee (ETSC)

Following the launch of the new grades of IEM Engineering Technologist and Engineering Technician in April 2021, Engineering Technologist and Technician Sub Committee (ETSC) was formed and held its first meeting on 21st July 2021 under the Standing Committee on Admissions and Practical Training. This Sub Committee is led by Ir. Tu Yong Eng as Chairman and Mr. Ricky Liew as Vice Chairman with 15 other committee members. ETSC held its monthly meetings on every 3rd Wednesday of the month to discuss, review, recommend, and implement issues or matters pertaining to the promotion and recruitment of Engineering Technologist and Engineering Technician memberships amongst universities, association, or industries.

The key roles of Engineering Technologist and Technician Sub-Committee (ETSC) are as follows:

- To promote engineering technologist and engineering technician memberships
- To organize activities to support and maintain high professional standards of engineering technologist and engineering technician
- · To provide specialist information on the engineering technological field to the public
- · To organize forum for the exchange of engineering technological ideas in the engineering field
- To exert influence and leadership in the interest of engineering technological field for the safety of public and industry

5.8.1 Memberships & Promotion

Below is the total membership report from January until December 2021:

Type of Membership	Total
Engineering Technologist Graduate	83
Engineering Technician Graduate	21

ETSC had organized several industrial and webinar talks with universities to promote IEM membership and participated in the exhibition during Malaysia Aerospace Summit 2021 (MyAERO'21) on 9th November 2021 and Selangor Aviation Show (SAS) on 26th November 2022. On 10th November 2021, IEM also launched the PUO-IEM Student Centre in Politeknik Ungku Omar (PUO) in Ipoh, Perak. Prior to this event, IEM has signed a Certificate of Collaboration (CoC) with PUO to recruit their students as IEM Student Members with the assistance from IEM Perak Branch.

ETSC is planning to start arranging physical membership recruitment drives and engaging with universities, colleges and industry more competently in the year 2022 onwards.

6. STANDING COMMITTEE ON EXAMINATIONS AND QUALIFICATIONS

6.1 Ir. Hj. Mohd Aman bin Haji Idris was appointed as Chairman of the Standing Committee for the session 2021/2022. The main responsibility of this Standing Committee was to conduct all examinations of the Institution and to assess qualifications of applicants or institutions of learning as may be required from time to time.

In addition, the Standing Committee was to regulate the professional interviews as well as working closely with the Engineering Accreditation Council (EAC) on the accreditation of the Engineering Degree programmes. This Standing Committee also works with Engineering Technology Accreditation Council (ETAC) on the accreditation of the Diploma/Degree in Engineering Technology programmes.

6.2 Professional Interview Board

Ir. Arul Hisham bin Abdul Rahim was appointed as the new Chairman of the PI Board for the session 2021/2022. The main responsibility of the Professional Interview Board is to co-ordinate the outcome based professional interviews held at the Head Office as well as the IEM Branches.

The Professional Interview Board also conducts the Professional Assessment Examination (PAE) on behalf of BEM.

During the global pandemic since March 2020, the PI Board faced a lot of challenges to carry out its function as face-to-face interview was prohibited. Several initiatives including virtual interview SOPs were explored. A trial run was conducted on 30th August 2021. In view of the need to maintain security and integrity of the PI, virtual interviews could only be conducted at HQ level. Virtual interviews require additional AV equipment which are not available at most of the IEM Branches. There is a need for Branches to prepare the necessary equipment for the future.

The PI Board resumed face-to-face interviews in October 2021. The PI Board wish to thank the candidates and interviewers for their patience and are currently working hard to settle all pending cases as soon as possible.



In ensuring the consistency and standards of the PI, the PI Board also conducts audit on the scores awarded by Interviewers. Interviewers are required to make comments according to the assessment elements' rubrics to avoid any vagueness in the marking.

As part of continuous improvement, the PI Board wish to encourage Interviewers to continuously update their professionalism and skill. Amongst others, it will be greatly beneficial for Interviewers to conduct technical talks or webinars within the duration of their appointment.

To ensure equal opportunity for all, the PI Board has set a target for assignment of Interviewers whereby each Interviewer will be assigned at least two interviews in a year depending on the number of PI candidates. Eligible IEM Corporate Members are strongly encouraged to register themselves as Interviewers especially at Branches to increase the pool of Interviewers.

6.2.1 Professional Interviews Statistics

The statistics of the professional interviews conducted from January - December 2021 are as follows:-

Application approved by MAB	Failed	Passed
197	21	106
	16.5%	83.5%

IEM approved a total of one hundred and eight (108) applications for the Professional Assessment Examination (PAE) from the Board of Engineers, Malaysia (BEM) in 2021. Eighty nine (89) candidates passed whereas nineteen (19) were unsuccessful.

6.3 IEM Accreditation Board

Ir. Emeritus Prof. Dr. Zainal Abidin Ahmad continued to be the Chairman for the IEM Accreditation Board for session 2021/2022. The role of the IEM Accreditation Board was to assist the Engineering Accreditation Council (EAC). IEM is one of the constituents of the EAC to evaluate local Engineering Degree programmes offered by both private and public Institutions of Higher Learning (IHLs) in the country.

Commencing from session 2021/2022, the Accreditation Board also took charge of compiling and channeling the reports on the Diploma/Degree Engineering Technology programmes for Accreditation/Continuing/Provisional Accreditation from the various Institutions of Higher Learning by Engineering Technology Accreditation Council (ETAC) to the Standing Committee for information.

6.4 Sub Committee on Professional Interview Development

The Sub Committee chaired by Ir. Hj. Mohd Aman bin Haji Idris worked closely with the Professional Interview Board especially on conducting the Outcome Based Professional Interview workshops for the Candidates as well as the Interviewers and Assessors. The Sub Committee is also responsible to look into further improvement to the process and analysing the shortcomings or problems.

For the year 2021, the Sub Committee had conducted Professional Interview workshop for the Graduate Members both directly by IEM as well as special in-house workshops for various engineering related organisations and government agencies.

In 2021, the Sub Committee also completed the Guidelines for Appointment of Interviewers as well as Interviewers' Decorum.

6.5 **Professional Interview Advisory Panel**

The Professional Interview Advisory Panel chaired by Ir. Tu Yong Eng was formed mainly to provide assistance, advice and guidance to candidates who had failed the Professional Interview (PI) especially on areas that the candidates are weak in. The Panel would only meet as and when there is a request from a candidate for advice on the PI. To disseminate information on this service, all letters issued to candidates who failed the PI beginning session 2020 would include information of this service should the candidate need it.

6.6 Task Force on Engineering Technologists and Engineering Technicians

The Sub Committee on IPEA/APEC Review for Audit 2020 was chaired by Ir. Hj. Mohd Aman bin Haji Idris for session 2021/2022. The Sub Committee was formed mainly to re-draft the Assessment Statement for the IPEA/APEC, to prepare the Reviewer's Report and to ensure the processing of the applications for the IPEA/APEC International register is in line with the requirements of the said international registers for the audit 2020.



IEM is proud to inform that IEM's authorised membership in IPEA and APEC was given an extension for another six (6) years with effect from 2021. IEM wish to thank all parties involved in the preparation of documentations and materials for the audit with special appreciation to Ir. Chen Harn Shean who had led the team for the Review Audit.

6.7 Engineering Technologist and Engineering Technician Competency Assessment Board (TCAB)

A launching ceremony of the four (4) membership grades for Engineering Technologist and Engineering Technician was held on 3 April 2021 at Malakoff Auditorium, Wisma IEM. The ceremony was officiated by the President and attended by a total of 225 participants. Besides having the physical ceremony, the ceremony was broadcasted live on two online platforms, zoom meeting and IEM's Youtube channel.

A forum on the pathway to become an IEM Engineering Technologist Member/Engineering Technician Member was held after the launching ceremony followed by a Q&A session. Through the session, 68 attendees indicated their interest to apply for IEM Engineering Technologist Graduate Member and Engineering Technician Graduate Member.

In June 2021, Engineering Technologist and Engineering Technician Competency Assessment Board (TCAB) was formed to establish the assessment criteria and methodology for the Engineering Technologist and Engineering Technician Graduate Members before they can transfer to the next grade – Engineering Technologist and Engineering Technician.

Ir. Fam Yew Hin was appointed as the Chairman for TCAB and the first formal meeting was held on 10th June 2021. The objective of such Competency Assessment Board is as follows.

- Establish the competency assessment process for registration of Engineering Technologist and Engineering Technician Members (from graduate membership);
- Establish the qualification process for selecting the interviewers, and subsequently conduct the selection process;
- Review the reports and recommendation from the interviewers after the Engineering Technologist/ Engineering Technician Competency Assessment

In October 2021, TCAB has successfully completed the competency model and the selection guidelines for Interviewers for Engineering Technologist Competency Assessment (TCA) and Engineering Technician Competency Assessment (TnA).

A stakeholder engagement session on the proposed TCA and TnA was held on 6th October 2021 where the objective was to collect feedback and obtain inputs from the various stakeholders.

In addition, TCAB had organised their first session of training session for TCA and TnA Interviewers on 27th November 2021 at Wisma IEM. The main objective of the session was to train and qualify Interviewers for TCA and TnA and exchange ideas. The second session was conducted through virtual platform on 19th February 2022 to encourage the participation from qualified interviewers outside Klang Valley.

Apart from the above, TCAB has also invited the Technical Divisions to a session for the preparation of question bank for TnA on 18th December 2021 via virtual platform. The session was to obtain inputs on the preparation of the question bank for Engineering Technician Member assessment.

TCAB had also finalised the application forms and guidelines for application of the grades of Engineering Technologist Member and Engineering Technician Member and it was published on IEM website in January 2022.

7 STANDING COMMITTEE ON INFORMATION AND PUBLICATIONS

7.1 For Session 2021/2022, the Standing Committee continue to be chaired by Ir. Prof. Dr. Leong Wai Yie. The Standing Committee is responsible for the publication of the IEM monthly Jurutera bulletin, the IEM Journal, the IEM Directory, the website and the library. In the year under review, the Standing Committee met regularly on every 2nd Tuesday of the month.

7.2 Jurutera

The Chief Editor and Bulletin Editor for the session were Ir. Prof. Dr. Leong Wai Yie and Ir. Prof. Dr. Zuhaina binti Zakaria respectively. Twelve issues of the bulletin were published for the year 2021. The titles for the issues are:



Month	Title	Month	Title
January	Food Safety, Sustainability & The Environment	July	Digitalisation of E&E
February	Innovation in Tunnelling - The Way Forward	August	Innovation in Marine Technology
March	Water Hazard & Security - IR 4.0 Era	September	Automotive Industry and the IoT
April	Active Transportation	October	Leadership in Project Management
May	IEM Connects	November	Reducing Our Carbon Footprint
June	Digital Transformation during a Pandemic	December	Semiconductors

7.3 Journal

Two (2) issues of the IEM Journal were published in the year 2021. The office of the Principal Journal Editor was first held by Ir. Prof. Dr. Abdul Aziz bin Abdul Samad from May to September 2021, subsequently by Ir. Assoc. Prof. Dr. David Chuah Joon Huang for the rest of the session.

The Journal Editoral Board (JEB) has taken various steps to improve the quality and profile of the Journal. To make it easier for the academics to find, cite, link, assess and reuse the research papers published in the IEM Journal, JEB has applied for the membership of Crossref for IEM Journal, which assigns every one of its members a Digital Object Identifier (DOI) suffix. With this DOI suffix, the Online Journal System (OJS) employed by JEB will now assign a unique DOI number to each of the issue and paper published automatically, allowing researchers from around the world to link directly to the landing page of every issue and paper of IEM Journal that are published online, dating back to all the issues published since 2011.

Another function accessible as a Crossref member is Similarity Check, which is in fact a reduced-rate iThenticate service. With the access to this online anti-plagiarism service, JEB now runs every paper through the iThenticate service to verify the authenticity of the papers, as a way to maintain the quality of IEM Journal.

Besides, JEB has also applied to join the Directory of Open Access Journals (DOAJ), which aims to increase the visibility, accessibility, reputation, usage and impact of quality, peer-reviewed, open access scholarly research journals globally, regardless of discipline, geography or language. Moving forward, JEB will be taking various measures to ensure the consistency of the publication of the Journal, in order to qualify for the prestigious SCOPUS Index.

7.4 **IEM Directory**

The Standing Committee had decided not to publish any hard copies of the IEM directory. The last printed IEM directory (printed copy and CD) was produced in 2016. An online directory which is updated "real time" is made available on the IEM website.

7.5 **IEM Website and Homepage**

The Standing Committee continued to monitor and improve the webpage. Efforts were made to make the website more user-friendly and to keep members updated with useful announcements.

7.6 Library

The Sub Committee on Library met 10 times in the year 2021, preceded by Ir. CMM Aboobucker. Beginning June 2021, Ir. Dr. Kannan M. Munisamy was appointed to take over the Chairmanship.

In the year 2021, 67 new of physical books had been added to the library collections thus increasing the total collection of books from 7,203 in 2020 to 7270 in 2021. Library Report 2021 as below:

Type of Book	Total
New Physical Book Purchased in 2021	67 Titles
Total Physical Book	7,270 Titles
New EBook Purchased in 2021 (Proquest)	29 Titles
Total EBook	459 Titles

The titles covered numerous disciplines. Apart from engineering and management topics, there are books on other general topics which are of interest to the engineering fraternity, e.g., biomedical engineering, aeronautical engineering, cyber security, AI artificial intelligences, climate change, agricultural engineering, nano engineering, space engineering and risk management etc.



Year	Free View Sessions	Total Chapter Downloads	Total Pages Printed	Total Pages Copies	Total Unique Users
2017	2,671	466	26,529	13	741
2018	17,344	7,052	164,798	48	1,342
2019	23,551	9,572	244,693	90	3,646
2020	6,421	4,434	928,590	51	2,106
2021	3,292	1,756	52,573	65	1,514

EBook data statistic is presented as above. IEM has subscribed to Proquest EBook since May 2017. These collections are very popular among members. The focus in future is to purchase a new online database besides the current Proquest Electronic Book.

Apart from technical electronic books, online Journals in the field of Geotechnical Engineering also can be accessed such as NRC Canadian Geotechnical Journal and ASCE Journal Geotechnical and Geoenvironmental Engineering.

Announcement and information on new physical books as well as eBooks are made regularly through the IEM Portal under the heading, "Benefit and Services" and also at IEM Library column. Members who wish to borrow physical books can reserve them through the IEM Portal. Members are also encouraged to submit recommendations of new titles using new book request column.

The IEM Library also has continuously liaised with SIRIM Technical Library in providing a service to borrow local and international Standards through SIRIM Membership Card. Members can use this SIRIM Membership Card and loan the required materials except Malaysian Standard, journals, and technical reports. Borrowed materials are to be returned within two weeks. Many members in the academic and consulting field use this facility.

8 STANDING COMMITTEE ON ACTIVITIES

8.1 The Standing Committee was chaired by Vice President, Ir. Yau Chau Fong for session 2021/2022 with Ir. Dr. Teo Fang Yenn as the Vice Chairman and the Secretary was Ir. Sukhairul Nizam bin Abdul Razak.

The Standing Committee continues to supervise the activities of Technical Divisions, Special Interest Groups, Sections and Branches of the IEM. The main objective of this Standing Committee is organising Technical Talks, Technical Visits, Seminars/Courses, Conferences, Social Events, and all other suitable activities for IEM's members.

Throughout the session, the COVID-19 pandemic was still widespread and due to this, most events were being organised via virtual platform instead of face-to-face.

For the past two (2) years, the ongoing impact of the COVID-19 pandemic continued to cause a significant deterioration in economic conditions for many companies and increase in economic uncertainty for others. The Standing Committee on Activities despite this had work harder than before to ensure that the sharing of knowledge continues to benefit IEM members. Although the number of participants for certain talks or events were lower than before, members are still willing to continue to partake in IEM's events.

For the year 2021, the Standing Committee organised numerous virtual activities via 'GoToWebinar' and 'Zoom Platform' for our Technical Talks, Seminar, Workshop & Courses including online Conferences or Symposium. The 1st Virtual Technical Visit was organised with more than 100 participants since physical Technical Visit was still not able to be organised due to the tight SOPs. A total of Three (3) Virtual Technical Visits were conducted using different platforms in 2021.

The IEM Engineers Run was held virtually by the Young Engineers Section (YES) for the 1st time on 27th October 2021 with the participation of 205 runners (members and non-members).

IEM managed to organise the first "hybrid mode" Malaysia Aerospace Summit 2021 ('MYAERO'21) which was held on 9th November 2021 at Kuala Lumpur Convention Center (KLCC) jointly with National Aerospace Industry Coordinating Office (NAICO) and supported by Ministry of International Trade and Industry, Malaysia (MITI). 'MYAERO'21 Summit' which was completely managed by IEM's own Secretariat team attracted more than 500 participants physically and virtually.

After a lapse of two (2) years, the IEM 62nd Annual Dinner 2021 was held at One World Hotel, PJ on 26th December 2021 and attended by 540 members. The dinner was held with strict adherence to all current SOPs from the Ministry of Health. The guest of honour for the event was Director-General of Jabatan Kerja Raya Malaysia, Y.Bhg. Datuk Ir. Mohamad Zulkefly bin Sulaiman.



Unfortunately, IEM Golf Tournament, IEM Bowling Tournament, Engineering Week, Family Day and a few scheduled Competitions & Conferences were postponed to a later date in view of the pandemic situation.

For year 2021, the Standing Committee on Activities (ACT) organised the following numbers of physical and virtual activities:-

Activities	Numbers Activities Organised
Technical Talks > (Virtual)	253
Technical Visits > (Virtual)	3
Paid Activities (Seminars / Courses / Workshop, Symposium) > (Virtual)	49
Outdoor / Social	1
Competition > (Virtual)	4
Engineering Education Awareness > (Virtual)	1
Charity (CSR)	18

More information on these activities can be found in the summary sheet of activities for the year 2021.

8.2 IEM Annual Events and Activities 2021

Some of the major events are highlighted below:

17 th April 2021	The 62 nd Annual General Meeting of the IEM was held on 17 th April 2021 via 'Hybrid mode' at Wisma IEM, Petaling Jaya and attended by 663 members.
12 th October 2021	Virtual Tour to Institut Teknologi Petroleum PETRONAS (INSTEP). Jointly organised by Project Management Technical Division, IEM & Oil, Gas and Mining Technical Division. IEM's 1st Virtual Technical Visit.
27 th October 2021	Virtual IEM Engineering Run was held virtually for the 1st time with the participation of 205 runners (members and non-members).
30 th October 2021	Virtual Visit to Marine Technology Centre (MTC) Universiti Teknologi Malaysia organised by Marine Engineering & Naval Architecture Technical Division. IEM's 2 nd Virtual Technical Visit.
9 th November 2021	Malaysia Aerospace Summit 2021 (MYAERO'21) was held at Kuala Lumpur Convention Centre attended by 323 (Physical) and 153 (Online) participants. This IEM's first 'Hybrid mode' event was jointly organised with National Aerospace Industry Coordinating Office (NAICO) and supported by Ministry of International Trade and Industry, Malaysia (MITI).
25 th November 2021	2021 IEM-ST-TEEAM National Electrical Safety Virtual Conference. The event was jointly organised with Suruhanjaya Tenaga (ST), The Electrical and The Electronics Association of Malaysia (TEEAM) and attracted more than 100 participants.
26 th December 2021	IEM's 62 nd Annual Dinner 2021 was held at One World Hotel, PJ was attended by 540 invitees.

8.3 IEM Presidential Award of Excellence

There was no IEM Presidential Awards for year 2021 as the awards for 2020 and 2021 shall be combined and presented only at the upcoming IEM's 63rd Annual Dinner 2022.

The winners for the IEM Presidential Award of Excellence for activities conducted in year 2019 were presented to the winners at the IEM 62nd Annual Dinner 2021 on 26th December 2021 at One World Hotel, PJ.

The winners for the activities conducted for year 2019 were:

Building Services Technical Division (BSTD)
Civil & Structural Engineering Technical Division (CSETD)
Electrical Engineering Technical Division (EETD)
Geotechnical Engineering Technical Division (GETD)
Mechanical Engineering Technical Division (METD)
Environmental Engineering Technical Division (ENETD)

8.4 IEM's Virtual Activities Awards

IEM, in special recognition and appreciation for the outstanding performance, contributions and efforts by the Technical Divisions, Special Interest Groups and Sections who had conducted the 'Virtual Events' shall be awarded with 'Virtual Activities Best Awards'. The Awards shall be presented effective from year 2020 onwards for the most Virtual Activities conducted.

The 'Virtual Activities Best Awards' are divided into TWO (2) Awards.

1st Awards - The Highest Numbers of Virtual Activities Conducted

2nd Awards — The Highest Paid Numbers of Participants of Virtual Activities Conducted

Winners for Year 2020:

1st Award The Highest Numbers of Virtual Activities Conducted			
Champion	Electrical Engineering Technical Division (EETD)		
1 st Runner Up	Project Management Technical Division (PMTD)		
2 nd Runner Up	Civil and Structural Engineering Technical Division (CSETD)		

2 nd Award The Highest Paid Numbers of Participants of Virtual Activities Conducted			
Champion	Electrical Engineering Technical Division (EETD)		
1 st Runner Up	Tunnelling and Space Underground Technical Division (TUSTD)		
2 nd Runner Up	Project Management Technical Division (PMTD)		

The awards were presented to the winners at the IEM 62nd Annual Dinner 2021 on 26th December 2021 at One World Hotel, PJ.

8.5 Technical Divisions, Special Interest Groups & Section

Due to COVID-19 and KKM SOPs, all Annual General Meetings of the Technical Divisions, Special Interest Groups and Sections were successfully conducted via virtual platform throughout the year, staggered from April - December 2021. Even the election process was conducted virtually for the first time through virtual 'polling system'.

8.6 New Technical Division and Special Interest Group

In year 2021, one (1) Technical Division namely 'Material Engineering Technical Division (MaTD)' and one (1) Special Interest Group namely 'Safety in Engineering Special Interest Group' were formed.

9 STANDING COMMITTEE ON PROFESSIONAL PRACTICE

9.1 Dato' Ir. Ahmad Murad was appointed as the Chairman of this Standing Committee for the Session 2021-2022. The Standing Committee held its regular monthly meetings on every second Friday of the month to discuss matters pertaining to professional practices.

The principal duties of the Standing Committee were to review, co-ordinate and formulate policies on all aspects of professional practice among members of the Institution including the conduct, ethics, discipline and good technical practice.

The Committee also continued to liaise with other Professional Bodies, Public and Statutory Authorities in respect of professional practice and continued to examine and report to the Executive Committee on any complaint made against a member of the Institution.

The Sub Committees under PPC and the various Chairmen for Session 2021-2022 were as follows:

Sub Committee	Chairman
Sub Committee on Engineering Contracts	Ir. Gunasagaran Kristnan
Sub Committee on Dispute Avoidance and Resolution Practice (DARP)	Ir. Zafrul Mahmood
The IEM Fire Advisory Board on Fire Protection Services	Ir. Yim Hon Wa
The Disaster Risk Reduction Advisory Board (DRRAB)	Dato' Ir. Nor Hisham
Sub Committee on Street, Drainage & Building Act (Act 133) and Uniform Building Bylaws (Revised) 1984	Ir. Yasotha Ramachandran Chetty
IEM Arbitrator Appointment / ADR Advisory Board	Dato' Ir. Ahmad Murad
Sub Committee on Screening of Complaints and Queries	Ir. Ang Kok Keng
Sub Committee on Legislation Affecting Engineering Profession	Ir. Lai Sze Ching
Sub Committee on Engineering Contracts	Ir. Gunasagaran Kristnan

9.2 Sub Committee on Engineering Contracts

Ir. Gunasagaran Kristnan continued for another term as the Chairman of the Sub Committee on Engineering Contracts for the session 2021-2022. The main objectives of this Sub Committee are:

- i) Matters related to the Engineering Contracts;
- ii) IEM Form of Contract for Mechanical and Electrical Engineering Works (Third Edition, January 2017);
- iii) IEM Form of Contract for Civil Engineering Works (Third Edition, January 2017);
- iv) IEM Form of Nominated Sub-Contract for Engineering Works [December 2017).

9.2.1 Sub Committee Activities for year 2021

(a) IEM Webinar Series IEM Conditions of Contract (CE 2011) : Simple Explainer

This 7-series webinar was held from 19th March 2021 until 28th May 2021. This webinar series offers simple explanation to the IEM Form of Contract for Civil Engineering Works (CE 2011) by categorising all clauses into different aspect and was single handedly conducted by Ir. Ang Kok Keng.

(b) Webinar on IEM Form of Nominated Sub-Contract for Engineering Works

The webinar was successfully held on 9th April 2021. This webinar is to give an introduction and overview of the 2017 IEM Sub-Contract.

(c) 2-Day Course on MyCESMM2

The course was successfully held on 6th - 7th April 2021 at Wisma IEM, Petaling Jaya. However, due to the current situation of the pandemic, arrangement for further programmes for this course had to be kept on hold.

- (d) Webinar on MyCESMM2 (Malaysian Civil Engineering Standard Method of Measurement) The webinar was successfully held on 31st May 2021.
- (e) Webinar on Malaysian Standard Method of Measurement for Building Works (MySMM)

 The webinar was successfully held on 11th June 2021. Sr. Chin Keh Liang from RISM was the speaker of the webinar.

(f) Webinar on Design and Build Contracts

The webinar was successfully held on 24th July 2021.

(g) Webinar on What is Mediation?

The webinar was successfully held on 1st September 2021.

(h) Webinar on M&E Works Measurement Under MYSMM and MyCESMM2

The webinar was successfully held on 1st November 2021 by AP Sr. Dr. Sarajul Fikri Mohamed, CQS is a lecturer at the Department of Quantity Surveying, Faculty of Built Environment and Surveying, Universiti Teknologi Malaysia, Johor Bharu, Johor.

(i) Webinar on M&E Conditions of Contract

The webinar was successfully held on 30th November 2021.

9.2.2 Do You Know? Segment in IEM Jurutera Bulletin

Starting from December 2021, a page in the Jurutera Bulletin will be dedicated for this segment. Every month, a few artworks with information regarding IEM Form of Contract for Civil Engineering Works (IEM.CE 2011) will be posted in the Jurutera Bulletin for members' reference.

9.2.3 Feedbacks

The Sub Committee welcomes all feedback and improvements for the Sub Committee's further discussion during its monthly meetings. Feedback survey was also carried out during the webinar sessions.

9.2.4 Call for Sub Committee Members

Any registered IEM Members are welcome to join the monthly meetings of the Sub Committee. Kindly provide your details or contact the PPC Secretariat or email sec@iem.org.my for further information.

9.3 Sub Committee on Dispute Avoidance and Resolution Practice (DARP)

Ir. Zafrul Mahmood was appointed as Interim Chairman in February 2021 in the absence of Ir. Khoo Choong Keow who was on long medical leave due to hip injury. Ir. Zafrul Mahmood was then appointed as Chairman of the Sub Committee for 2021-2022 session.

9.3.1 Sub Committee Activities for the year 2021

The Sub Committee held its regular meetings on bi-monthly on the second Tuesday of the month to discuss matters, summarized as follows:

- i) The Workshop Dispute Avoidance No. 6 planned to be conducted physically on 8th June 2021 was put on hold due to MCO. The Committee decided not to carry out the workshop through webinar as the workshop required interaction from the participants.
- ii) The Sub Committee was assigned by Standing Committee of PPC to review the process and procedure for the appointment of arbitrator for an arbitration case, reviewing the scale of fees and arbitration rules 2016.

9.3.2 Call for Sub Committee Members

Any registered IEM Members are welcome to join the monthly meetings of the Sub Committee. Kindly provide your details or contact the PPC Secretariat or email sec@iem.org.my for further information

9.4 The Fire Advisory Board (FAB) on Fire Protection Services

Ir. Yim Hon Wa was re-appointed as the Chairman of the Fire Advisory Board (FAB) on Fire Protection Services for the session 2021-2022. The scope and main objectives of this Advisory Board are as follows:

- (a) The Fire Advisory Board shall comprise a Chairman, Deputy Chairman, Secretary/Treasurer, Advisor and at least three (3) Committee Members, who shall normally be appointed for a term of yearly session;
- (b) The principal duties of the Advisory Board shall be:
 - i) To study the technical issues related to fire protection with the aim to disseminate information to members with the latest regulations, circulars from Jabatan Bomba dan Penyelamat Malaysia as well as to focus on the fire safety aspects by organizing various activities, open forum and dialogue to provide awareness to members as well as architects.
 - ii) Since 2013, the Advisory Board targets to train its committee members and young graduates in fire safety aspects via various.
 - iii) To review, co-ordinate and formulate policies as well as to advise on all aspects on fire engineering.
 - iv) To provide awareness and trainings as one of the advisory roles on fire industries.
 - To foster closer rapport with local authorities such as Department of Standards Malaysia, BOMBA and KPKT.
 - vi) To look into the representation of IEM in public and statutory authorities and other relevant organisations involved on fire activities.
- 9.4.1 The Advisory Board participated in the following meetings/dialogues/events:
 - (a) Penyelarasan Kursus Keselamatan Kebakaran bagi Principal Submitting Person (PSP) dan Submitting Person (SP) which was held on 23rd February 2021 at Ibu Pejabat JBPM Putrajaya
 - (b) Mesyuarat Membincangkan Modul Fire Safety Training which was held on 11th March 2021 at Ibu Pejabat JBPM Putrajaya
 - (c) Mesyuarat Dialog Bersama Professional Bil. 1/2021 Jabatan Bomba dan Penyelamat Malaysia Kuala Lumpur which was held on 6th August 2021 virtually through Google Meet
 - (d) Mesyuarat Dialog Bersama Professional Bil. 2/2021 Jabatan Bomba dan Penyelamat Malaysia Kuala Lumpur which was held on 17th December 2021 at Ibu Pejabat JBPM Kuala Lumpur
 - (e) Mesyuarat dan Taklimat Draf Akhir Pindaan Undang-Undang Kecil Bangunan Seragam (UBBL 1984) bersama Bahagian Undang-Undang, Kementerian Perumahan dan Kerajaan Tempatan which was held on 8th April 2021 at Penang
- 9.4.2 The Advisory Board is also involved in providing input and comments for Department of Standards Malaysia for the following:
 - (a) NSC M (Jawatankuasa Standard Perindustrian bagi Keselamatan Kebakaran)
 - (b) TC on Dry Fire Protection System (TC/M/1)
 - (c) Working Group on Guidelines for Fire Detection and Fire Alarm System (NSC M/ TC 1/WG 1-2)
 - (d) TC on Passive Fire Protection System (TC/M/2)
 - (e) TC on Wet Fire Protection System (TC/M/3)
 - (f) TC on Smoke Management (TC/M/4)
 - (g) TC on Clean Agent Fire Extinguishing System (TC/M/5)
 - (h) WG on Portable Fire Extinguisher (WG/M/5-1)
 - (i) Working Group on Gaseous Fire Extinguisher System Clean Agent (NSC M/TC 5/WG 5-3)
 - (j) Technical Committee on Fire Properties of Building Material (TC/M/6)
 - (k) Working Group on Fire Rated Lift Landing Doors: Fire Resistance Test (WG/M/6-1)

9.4.3 The Advisory Board Activities for the year 2021:

(a) Webinar on Understanding of Fire Engineering Application in Malaysia

The event was successfully held virtually on 20th January 2021. The understanding of a fire engineering application framework was delivered to the professionals through this webinar to understand the deliverables, checker requirements, authority submission process, and fire audit inspection systems.

(b) IEM Fire Advisory Board Dialogue: Testing and Commissioning Guideline for Fire Protection Systems

The event was successfully held virtually on 2^{nd} February 2021. This event was part of the activities to create awareness on the guideline.

9.4.4 IEM Guideline on Fire Protection Testing and Commissioning Procedure

The final version of the guideline was published and presented by the IEM President during the signing of MoU with Malaysia Association of Local Authorities (MALA) on 3rd December 2021 in Penang. The local authorities attending the signing had shown great response towards the guideline presented. This guideline can be purchased at the 2nd Floor, Bangunan Ingenieur at RM80.00.

9.5 The Disaster Risk Reduction Advisory Board (DRRAB)

Dato' Ir. Nor Hisham bin Mohd. Ghazali was appointed as the Chairman of the Disaster Risk Reduction Advisory Board (DRRAB) for the session 2021-2022.

- 9.5.1 The scope and main objectives of this Advisory Board are as follows:
 - This Advisory Board function is focusing on the disaster preparedness, mitigation and planning for a community scale or larger. The type of disaster includes; natural, catastrophic fire, biological and chemical disasters.
 - ii) The Advisory Board will advise on mitigation of, prepare for, respond to, and recover from large-scale disasters. This will include drafting standards and procedures, education, high level advocacy and consultation to ensure that the preparedness and best practices of our national disaster recovery work.
 - iii) The Advisory Board will be the focal point of technical expertise on disaster preparedness within IFM
 - iv) Topics involves: Floods, Haze and Wild Fires, Landslides and Rockslides, Earthquake, Coastal Erosion, Land Subsidence, Tsunami, Catastrophic Chemical Release**, etc.

 *-these are taken as large catastrophic events. Smaller fires or chemical control measures
 - would be interest of other committees (Fire Advisory Board and/or Technical Divisions i.e. Chemical Engineering Technical Division).

9.5.2 The Advisory Board Activities for 2021

(a) Dialogue of Draft Guidelines on Monitoring of Airborne Chemical Hazardous to Health A dialogue was held on 13th April 2021 virtually with IEM members' participation. The aim of this dialogue is to gather engineering input for onward feedback to DOSH on this draft guidelines.

(b) The AFEO Disaster Preparedness & Mitigation 3rd Series Webinar

A webinar with the theme of 'Engineering Technology to fight COVID-19 in AFEO' was held virtually on 21st September 2021. Ir. Dr. Salwa Ramly from JPS had presented on 'Malaysia's Experience in the Use of Technology for Flood Disaster Preparedness' on behalf of Malaysia.

9.5.3 Selangor Disaster Management Unit and Smart Selangor

IEM was an observer in the Selangor Disaster Management Unit Working Group on High Tide Flooding Phenomena. IEM also had updated and translated the guidebook on high tide flooding for the working group.

9.5.4 Position Paper on the Impacts of Sea Level Rise on Coastal Communities and Development

The position paper was submitted to the Ministry of Environment and Water (KASA) and now awaiting feedback from the Ministry.

9.5.5 Position Paper on Water Supply Resilience in Malaysia

From the Forum on the Impact of Climate Change on Water Related Disaster, which was held on 10th October 2018 in Wisma IEM, Petaling Jaya, the Committee had agreed to form a Working Group to write a Position Paper titled Centre of Excellence for Dam Engineering in Malaysia. However, the idea of the initial position paper was reformed since it was already adopted by MYCOLD. Therefore, the new position paper was proposed with the title of Water Supply Resilience in Malaysia. Currently, a few stakeholders had been identified and the composition of the position paper is ongoing.

9.5.6 AFEO Working Groups

The Advisory Board (DRRAB) at its meeting agreed to nominate Dato' Ir. Nor Hisham bin Mohd. Ghazali (Chairman) as the main representative and the Deputy Chairman or Secretary DRRAB as the alternative representative to serve and attend this AFEO Working Group. The WG meetings will be held twice a year in conjunction with the AFEO meetings. The representative/s will need to contribute on disaster matters and also on 'Manual on Disaster for ASEAN'. The meetings attended were:

- (a) AFEO Midterm Meeting (4th 7th August 2021) hosted by Malaysia virtually
- (b) 39th CAFEO (29th November 3rd December 2021) held virtually and physically at Bandar Seri Begawan hosted by Brunei Darussalam

9.5.7 Call for Experts and Volunteers

The IEM Disaster Risk Reduction Advisory Board (DRRAB) under the IEM Standing Committee on Professional Practice (PPC) is compiling a list of volunteers to join the Advisory Board team. Kindly provide your input and interest to IEM Secretariat.

9.6 Sub Committee on Street, Drainage & Building Act 1974 (Act 133) & Uniform Building Bylaws (Revised) 1984

Ir. Yasotha Chetty continued to serve as the Chairman of the Sub Committee to provide IEM's views and input to the Ministry of Urban Wellbeing, Housing and Local Government via representation to the Working Group Committees on relevant matters.

9.7 IEM Arbitrator Appointment / ADR Advisory Board

Dato' Ir. Ahmad Murad was appointed to serve as the Chairman of the Sub Committee for 2021-2022 session.

9.7.1 New Member to Register as IEM Arbitrators

IEM received 1 application from IEM members to register as IEM Arbitrator. The application was screened and accepted by the Sub Committee of Dispute Avoidance on Resolution Practice (DARP). An interview session was conducted on 29th November 2021 by the Panel Board of Interview which comprised of the President of IEM, Chairman of PPC and 2 Arbitrators. The Panel had approved Ir. Ang Kok Keng's empanelment to IEM Panel of Arbitrator in Civil Engineering discipline on 14th December 2021. The approval is currently awaiting endorsement by Excomm and Council.

9.8 Sub Committee on Screening of Complaints and Queries

Ir. Khoo Choong Keow continues to serve as the Chairman of the Sub Committee to screen the complaints made against members on grounds of ethics, unfair dismissal, professional misconducts, unethical practice of Professional Engineers and other issues. However, due to a hip injury, he had to be on medical leave from September 2020 onwards. In his absence, the Standing Committee assigned its members to conduct screening of the complaints and queries on ad-hoc basis. On 5th May 2021, the Standing Committee appointed Ir. Ang Kok Keng as the Chairman of this Sub Committee for 2021/2022 session.

This Sub Committee will determine whether such complaints warrant a need to set up disciplinary Adhoc Committee to hear such cases. During the 2021 session, the complaint received are as follows:

(a) The Complaint against IEM member on Plagiarism.

The complainant claimed that the respondent had used his idea and concept of PHD for the respondent's full bright award. The complaint was screened by the Screening Committee of Complaint to give a recommendation as to whether an Investigation Committee needs to be set up. The Committee had interviewed the complainant to understand the nature of the complaint on 23rd September 2020. The Committee further requested the Respondent to provide an explanation of the complaint against him. The matter is still under investigation.

This complaint was found to be not a case of plagiarism but of copyright infringement. Thus, the Respondent is prima facie guilty of professional misconduct as his conduct indicated a failure to "uphold the dignity and reputation of his profession" as stipulated under Section 9.2 of the IEM Bylaws. The Sub Committee on Screening of Complaints recommended the setup of a Disciplinary Committee to hear the complaint on the copyright infringement.

The Disciplinary Committee during meeting dated 6th July 2021 concluded that IEM has no jurisdiction to deal with and/or investigate on copyright infringement. The Disciplinary Committee recommended the parties to consult an Intellectual Property (IP) lawyer and suggested to inform the Complainant to lodge his complaint to the Kementerian Perdagangan Dalam Negeri dan Hal Ehwal Pengguna (KPDNHEP).

(b) Freelancer's Fee Not Paid for Jobs Done for an Engineer Firm

On 27th October 2020, IEM received an email from the Complainant who is a freelancer providing architectural drawings and other part time jobs on per job basis. The Complainant has been working on a few projects with the Respondent who is an IEM member. The Complainant did not receive payment of RM12,700.00 being the part time job for the last 3 projects done by the Complainant for the Respondent. The outstanding amount still remained unpaid despite several reminders, invoices and text messages via WhatsApps by the Complainant to the Respondent.

One of the Committee members volunteered to assist the parties to resolve the dispute through mediation. However, the mediation process revealed that this matter was a Trade Dispute case which does not involve any Professional Practice misconduct. Therefore, IEM has no obligation to pursue further on this matter. The Standing Committee agreed unanimously not to pursue this case further and let the parties resolve their dispute through their respective legal representative.

(c) Complaint on Misconduct by Professional Engineer

On 27th April 2021, IEM received an email on the misbehavior of an IEM representative during a meeting with an outside organisation. The said meeting is a working group meeting to deliberate on a Clause related to MS2286. The Complainant alleged that the Respondent had uttered a derogatory remark which is inappropriate during the said meeting.

On 4th May 2021, the Complainant wrote an email to the Chairman of the working group citing his disagreement with the rejection of his proposed amendment to the Clause as the reason of rejection is not supported by technical data nor report.

On the same day, the Respondent replied through an email to the Complainant and copied to the working group, informing of the reason for rejecting the proposed amendment which were explained by three (3) persons in the working group including the Respondent. The Respondent stated that the term "cow boy" was used to refer to unscrupulous manufacturers with no specific reference to the Complainant's company as alleged. On the contrary, the Respondent alleged that the Complainant has sent a message to everyone and ridiculed him with derisive remarks. The alleged derisive remarks were however not stated in the Respondent email.

The Sub Committee is in the opinion that the complaint received on 27th April 2021 via email was without any supporting evidence from the Complainant as required under Article 9.7 of IEM By Laws to discharge his burden of proof. Upon the deliberation by the Standing Committee, this case was dismissed because of the failure by the Complainant to provide the evidence in support of his complaint.

(d) Clarification on the Failure to Notify First Submission Engineer and Obtain a Release Letter On 5th August 2021, the Complainant issued a letter to the Respondent on the failure by the Respondent to notify the first submission engineer who is the Complainant and obtained the necessary release letter for traffic impact assessment submission to local council. The said letter was copied to the President of IEM, Chairman of IEM Penang Branch and Registrar of Board of Engineers, Malaysia.

The Sub Committee who was tasked to review this complaint found that the letter submitted is not a complaint letter but a clarification letter from the Complainant to the Respondent with the hope of amicable resolution. There is also no evidence submitted in accordance with Article 9.7 of IEM By Laws.

The Sub Committee recommended to either put this matter in abeyance until the receipt of an official complaint by the Complainant and/or to assist in mediation between the parties and/or to dismiss this matter altogether. Upon the deliberation by the Standing Committee, this case is to be dismissed and one of the Standing Committee members volunteered to contact the parties and offer to mediate.

9.9 Sub Committee on Legislation Affecting Engineering Profession

Ir. Lai Sze Ching continued his service to provide regular updates and information on legislations and how such legislation would impact the engineering profession.

9.10 The Engineering Practice Advisory Committee

9.10.1 Introduction

In response to requests from IEM branches for the formation of an advisory panel on legal matters to assist members, the President had directed the formation of such a committee and had entrusted the matter to PPC. An Advisory Panel was formed with a scope that was not only confined to legal matters but also covers engineering practice related matters including preliminary or general advice on legal matters. For specialized advice on legal matters, members would need to approach their own lawyers.



Ir. Lee Weng Onn was appointed as the Chairman of the Engineering Practice Advisory Committee for the session 2021-2022.

9.10.2 The scope of this Advisory Committee are as follows:

- To advise IEM members on practice related matters including advice on legal matters, procedures and practices of a general nature;
- ii) To discuss such matters and to assist and guide members where necessary;
- iii) To publish FAQs to guide members on practice matters

9.10.3 Composition of Committee

- i) The committee comprise a chairman, a deputy chairman and representatives from the following committees:
 - Sub Committee on Engineering Contracts.
 - Sub Committee on DARP.
 - Sub Committee on Street, Drainage and Building Act.
 - Standing Committee on E&Q.
 - Standing Committee on Admission.
 - Other members that the committee deems fit to invite.
- ii) In addition to the above, the committee is expected to also have among its committee members, IEM members who have served in the following committees and sub-committees of BEM:
 - Professional Practice Committee.
 - Scale of Fees Committee.
 - Sub committee of Appendix A, B & C.
 - Investigation committees and Disciplinary Committee of BEM.
 - CCC Sub committee.
- iii) Legal advisors comprising engineers with appropriate legal qualifications.

9.10.4 Modus Operandi

- The committee shall have 2 scheduled meetings a year and as many ad-hoc meetings as required.
- ii) The scheduled meetings are to be held to review progress, coordinate preparation of FAQ's and to formulate policy. Scheduled meetings shall be subjected to IEM Constitution & By-Laws' requirements:
- iii) The ad-hoc meetings shall be held in response to queries received and shall comprise mainly of members related to the nature of enquiry and interested parties.

9.11 Outside Bodies Representation (OBR)

The appointed Chairman, Dato' Ir. Ahmad Murad continued to oversee representatives to attend and participate by maintaining and establishing close rapporteur and participate into various government agencies in meetings with various outside bodies between IEM with Local Authorities and Government sector.

As for this exercise, the Secretariat reports and refers all incoming invitations made by external parties by referring and consult with the IEM President assisted by the PPC Chairman, IEM Honorary Secretary and relevant Committees Chairmen to appoint and identify IEM representatives to attend external meetings and events whilst, the PPC Secretariat handles the necessary administrative works.

Currently, more than 100 members from IEM Excomm, Council and the respective Standing Committee, Technical Divisions, Special Interest Groups (SIG), Young Engineers Section (YES) and branch representatives representing IEM in more than 150 technical committees, working groups, opening ceremonies, dinner, events, dialogue and meetings at various local governments, agencies, institutions, and universities.

All representatives attended the external meetings will be required to produce a copy of the Outside Bodies Representation (OBR) report form within a week from the meeting date. All incoming reports will be tabled at the monthly meeting of the Standing Committee on Professional Practice, Technical Divisions and thereafter will be reported to the President or Excomm if there is any matter that require further deliberation or decision.

IEM also continues to provide and assist with comments and input required by the industries such as Department of Standards Malaysia (DSM), Bomba, SIRIM and Jabatan Kerja Raya (JKR) by participating and serving as committee members in various meetings, dialogues and workshops.



Aside from all this, IEM also continues to support other locals and international events and become one of the jointly organized and supporters without financial commitment. For these events supported by IEM, the organizers have been provided with an IEM logo for their promotional materials. In return, IEM will be given the proceedings of the conferences for the library and also complimentary seats to attend the conference.

Most of the details received has been uploaded regularly into IEM website (refer to https://www.myiem.org.my/content/related_to_engineering_services_database-855.aspx) and also forwarded to Library and InfoPub for dissemination to IEM members.

10 STANDING COMMITTEE ON WELFARE AND SERVICE MATTERS

10.1 Ir. Dr. Ruslan bin Hassan served as Chairman for Session 2021/2022 and continued to look into means of improving the welfare and benefits to IEM members. This Standing Committee held its monthly meetings on every 3rd Tuesday of the month to discuss, review, recommend, approve and implement issues or matters pertaining to the welfare of IEM members. Unfortunately activities such as the IEM Family Day and IEM Engineering Week had to be called off due to RMCO implemented during the session. Thus, the Standing Committee arranged more online webinar talks, which can benefit members of the Institution.

10.2 IEM Benevolent Fund

RM15,031 were contributed by members to the Fund in 2021. IEM wish to record its appreciation to the members for their kind support and generosity. The balance available in the fund as at 31st December 2021 is RM49,051.73.

10.3 Jurutera Wargamas (JWS) and Exempted Members

The scheme specially designed for members who are senior citizens or disabled was aimed at reducing the annual subscription for these members to an affordable amount. The affected members would need to pay 25% of the annual subscription fee with the balance to be settled from the IEM Benevolent Fund Account. For year 2021, there were 2 applications has been approved for the scheme.

10.4 **IEM Job Gallery**

10.4.1 IEM Job Advertisement

This is a job vacancy advertisement programme. The programme provides job vacancy advertisements through the IEM Website to its members and non-members who are looking for engineers on a full time/contract or on part time basis to fill job vacancies in their respective companies. Job seekers can search for their desired employment in the IEM Website under 'Job Gallery' section for the latest job vacancy advertisements. There are no charges imposed for the job vacancy advertisement.

10.4.2 Job Bank and Match-Make

The Standing Committee also assists members who has difficulties in finding jobs due the MCO situation. Members are invited to submit their resume to the IEM Resume Bank and the Committee will assist to match with suitable vacancies available.

10.5 **IEM Family Day 2021**

In line with the safety guidelines by the Ministry of Health (MOH) Malaysia, this annual event was cancelled for this year. However, the Recognition Award for SPM/STPM/A-Level award recipients was still being offered to the children of IEM members who achieved outstanding results in their SPM, STPM and A-Level in 2021 exam. Certificates of achievement and prize shall be given to the winners. For this year a total of 10 recipients for SPM, 4 for STPM and 2 for A-Level were presented.

10.6 **IEM Engineering Week 2021**

No event conducted at this year.

10.7 Insurance Matters

Several insurance schemes were arranged with insurance companies for members. These included the Professional Indemnity Insurance, Motor Insurance, Fire Insurance and other General Insurance. Interested members may contact the IEM Secretariat for more information.

10.8 **Affinity Programmes**

IEM continue to collaborate with CIMB on the affinity credit card programme which would benefit IEM where 0.1% of the amount spent by members using the card would be contributed as rebate to IEM. Other benefits also include enabling IEM members to pay their annual subscription via direct debit from the card. IEM members are encouraged to apply or convert their existing card to the CIMB AFFINITY CARD as 0.1% rebate is a substantial income to IEM whereby the more you spend, the more your contribution to IEM.



10.9 Webinar Talks

The Standing Committee also organized a number of webinar talks for the benefit of IEM members with interesting topics on health issues, leadership development, financial management etc.

10.10 Other Benefit Projects

The Committee continued to negotiate with vendors and merchants to look into collaborations for the benefit of IEM members. For the year 2021, the Committee had renewed corporate rates for Mercedes Benz, BMW & Mini, BP Healthcare, Institut Jantung Negara, World of Sports, Red Wing Shoes, Focus Point, Restoran Karak etc.

The Committee will continue to source for more beneficial collaborations to increase the value of IEM membership.

10.11 Financial Aid for Engineer in Distress

Understanding the struggle by all to face the challenges of the Covid-19 pandemic and the MCO restrictions, IEM is collaborating with Bank Islam Malaysia Berhad (BIMB) to offer financial assistance to IEM members especially to those who have lost their employment or reduced monthly income. Products offered include personal financing, house financing, SME and others. Members may obtain further information from IEM website.

11 STANDING COMMITTEE ON CORPORATE AFFAIRS

11.1 Ir. Mohd Khir bin Muhammad continued as Chairman of the Standing Committee for the second session.

The Standing Committee continues to oversee various initiatives to improve the image of IEM. The Committee had been tasked to ensure that the position of IEM remains as the premier engineering institution in Malaysia and in the ASEAN region. This Standing Committee continues to handle also the co-ordination of the international involvement of IEM, monitors the activities of the various IEM foreign initiatives as well as looking into local issues such as

- Forging ties with other professional bodies locally and overseas.
- Representation of the Institution in public and statutory authorities and other relevant organisations.
- Fostering closer rapport with them in order to enhance the public image and status of the Institution.
- Handling affairs of PR duties as part of its monthly agenda.

11.2 Memorandum of Understanding

The Chairman of the Subcommittee on MoU is Ir. Prof. Dr. Jeffrey Chiang Choong Luin. In the year under review IEM established Agreements / MoUs with the following organisations:

American Society of Heating, Refrigerating and Air-Conditioning Engineers Malaysia Chapter (MASHRAE)	5 th April 2021
Johor Centre for Construction Development (JCCD)	7 th April 2021
Malaysia Association of Local Authorities (MALA)	3 rd December 2021
Institution of Engineering and Technology UK (Malaysia Chapter)	21st January 2022

11.3 MoUs with Universities / Institutions of Higher Learning

IEM signed a Memorandum of Agreement with Heriot Watt University Malaysia on 1st September 2021. This MoA provides to all IEM members as well as their spouse and children who enrol in all taught postgraduate programmes offered at Heriot-Watt Malaysia Campus, a 10% bursary based discount on published tuition fees.

IEM also signed a Certificate of Collaboration (CoC) with Politeknik Ungku Omar on 2nd November 2021.

11.4 Interview Sessions, Press Releases and Press Statements

For the year under review, the Standing Committee continues to be active in providing press releases and press statements on various engineering issues and matter of National interest.

A total of four (4) press statements were sent and four (4) press clippings were published in the media. The press statements and clippings were uploaded onto the IEM Web Portal Newsroom for the general member's information

11.5 **Branding of IEM**

In the period under review, Subcommittee on Social Media continued to look into means of improving the branding of the Institution and to have solid social media presence.

Postings on IEM's history started during the National Celebrations on 31st August 2021 where information on formation of IEM, history of Bangunan Ingenieur and the early years of IEM were posted. Thereafter, postings were made on Past Presidents of IEM and the latest was on the first 11 Woman Fellows of IEM in conjunction with the International Women Day.

11.6 "IEM Meet the Public" Session

Renamed as IEM Meet the Public Session, the Committee under the chairmanship of Ir. Yam Teong Sian continued to offer IEM's service of advice to the general populace, who might be troubled by problems related to Engineering.

11.7 Dialogues with Government Ministers, Government Agencies, Ministry Officials and Local Councils

Due to the COVID-19 Pandemic, dialogues with Government Ministers, Government Agencies, Ministry Officials and Local Councils had to be postponed.

11.8 Inter-Professional Activities

Ties with other professional bodies/relevant organisations

The Institution continued its close rapport with other professional bodies and organisations amongst which include:

- Board of Engineers Malaysia (BEM)
- The Chartered Institute of Arbitrators (CIArb)
- The Malaysian Institute of Arbitrators (MIArb)
- · Association of Consulting Engineers, Malaysia (ACEM)
- Pertubuhan Akitek Malaysia (PAM)
- The Institution of Surveyors, Malaysia (ISM)
- Construction Industry Development Board (CIDB)
- Balai Ikhtisas Malaysia (BIM)
- Malaysian Services Providers Confederation (MSPC)
- Building Management Association of Malaysia (MBAM)
- Confederation of Scientific and Technological Associations in Malaysia (COSTAM)
- Malaysia Structural Steel Association (MSSA)
- Professional Skills Development Centre (PSDC)
- Department of Standards Malaysia (DSM)
- · Standards and Industrial Research Institute of Malaysia (SIRIM)

11.9 International Secretariat

In order to oversee the various initiatives to improve the image of the Institution and to ensure that the Institution has a position of being a leader of engineers in Malaysia and the ASEAN region, this Standing Committee handles the co-ordination of the international involvement of IEM and monitors the activities of the various IEM foreign initiatives.

The Institution continued to be appointed as the International Secretariat of ASEAN Federation of Engineering Organisations (AFEO), ASEAN Engineering Register (AER) and Federation of Engineering Institutions of Asia and the Pacific (FEIAP). The International Secretariat's office handles the routine day to day functions and prepare activities and co-ordination of international events and meetings.

For this effort, the office of the International Secretariat also reports to the Chairman of the Standing Committee on Corporate Affairs.

11.10 ASEAN Federation of Engineering Organisations (AFEO) Secretariat

The AFEO Governing Board continued to maintain the AFEO Secretariat at IEM. Ir. Mohd Khir bin Muhammad, IEM Vice President and Chairman of the Standing Committee on Corporate Affairs was re-appointed as the AFEO Secretary General for a second year. IEM also continued as the AFEO Hon. Treasurer for the 2021-2022 session with Ir. Assoc. Prof. Dr. David Chuah Joon Huang.

With the continued Movement Control Order being implemented in the first three quarters of 2021, the Mid-term Meeting of the AFEO Board of Governors had to be hosted virtually by The Institution of Engineers, Malaysia via zoom platform from 4th to 7th August 2021. CAFEO 39 hosted by Pertubuhan Ukur, Jurutera dan Akitek was also conducted by the AFEO Secretariat based in IEM virtually via Zoom Platform.

As Brunei Darussalam was very strict with foreigners entering the country, as well as overseas travelling still being restrictive, the entire 39th CAFEO was conducted via Hybrid mode allowing only local Bruneian engineers to be able to participate in the event physically. Approximately 60 representatives from IEM attended the Work Group meetings and 80 participants attended the Conferences, business networking sessions, virtual exhibitions and webinar sessions.



CAFEO 39 was held from 29th November until 3rd December 2021 with the opening ceremony being officiated by the Sultan of Brunei virtually on 30th November 2021. The Sultan of Brunei was also conferred the AFEO Distinguished Hon Patron at the opening of the Conference witnessed by heads of Delegations and Presidents from the 10 AFEO member organisations. The 39th AFEO Governing Board chaired by PUJA took place on 3rd December 2021 and culminated with the signing of the Bandar Seri Begawan Declaration.

PUJA (Brunei) then handed the chairmanship to BEC (Cambodia) who will be hosting CAFEO 40 in 2022 in Phnom Penh.

The Governing Board also endorsed a list of Distinguished Honorary Fellows, Honorary Fellows and Honorary Members. The IEM members who received the conferment for 2021 were:

Distinguished Honorary Fellow

Dato' Sri Haji Fadillah bin Haji Yusof

Senior Minister, Ministry of Work Malaysia

AFEO Honorary Fellows

Datuk Ir. Mohd Zulkefly bin Sulaiman

BEM President concurrently Director General, Public Works Department, Malaysia

Dato' Ir. Ahmad Murad bin Omar

IEM Vice President

Dato' Ir. Nor Hisham bin Mohd Ghazali

Director General, National Hydraulic Research Institute of Malaysia (NAHRIM)

AFEO Honorary Member

Ir. Prof. Dr. Lee Tin Sin

IEM Council Member and Committee Member Chemical Engineering Technical Division

Ir. Francis Xavier Jacob

Chairman, IEM Electrical Engineering Technical Division, AFEO Energy Work Group Chair and IEM Council Member

Ir. Loo Chee Kin

IEM Representative to Disaster Preparedness and Chairman of IEM DDRAB

Ir. Rusnida binti Talib

WE-AFEO Secretary General and IEM WES Chairperson

Ir. Dr. Lee Yun Fook

Chairman, IEM Membership Applications Board

11.11 ASEAN Engineering Register (AER)

IEM being appointed as host of the Secretariat for ASEAN Engineering Register (AER) continued to maintain the Register and chair the Executive Committee at IEM. The AER Secretariat based at the IEM premises also continued to organise activities for the Register. Ir. Yau Chau Fong continued his tenure as the AER Head Commissioner and chaired monthly meetings to look into the affairs of the AER membership for the 10 countries.

The ASEAN Engineering Register included the registration of the entire engineering team comprising the Engineers, Engineering Technologists, and Technicians and related Associates.

In line with the objective of the AER which is to facilitate the mobility and professional practice of the engineering team within ASEAN, the AER Executive Committee and AFEO Governing Board continued the task of establishing a framework of mutual recognition of qualifications amongst the ASEAN member countries whereby AER members who wish to practice outside their home country may carry with them an approved and recognized professional qualification. The AER is maintained as a platform to safeguard and promote the professional interests of engineers, engineering technologists, technicians and related associates. The quality and standing of AER members are continuously being upheld through the setting, monitoring and reviewing of standards by the AFEO Governing Board.

The membership of AER comprised of the following grades of membership:



- ASEAN Engineers (AE)
- ASEAN Engineering Technologists (AET)
- ASEAN Technicians (AT)
- Associate ASEAN Engineers (AAE)
- Associate ASEAN Engineering Technologists (AAET)
- Associate ASEAN Technicians (AAT)

11.12 AER National Monitoring Committee (NMC)

Ir. Chen Harn Shen took over the Chairmanship of this Committee. The main role of the IEM AER NMC was to process applications for IEM members and TAM members applying to be registered in AER through the technological association. The Committee also arranged for AER certificates and medallions presentation to successful applicants from IEM and TAM.

11.13 Asia Pacific Economic Cooperation and Engineers Mobility Forum (APEC/EMF) International Engineer Register Committee

BEM, IEM and ACEM are the three organisations that jointly maintains the APEC Engineer/IntPE status in Malaysia. The President of BEM, Y.Bhg. Datuk Ir. Haji Mohamad Zulkefly bin Sulaiman chaired the National Monitoring Committee Meetings and head the National Monitoring Committee (NMC) which is based at BEM.

The NMC consists of two representatives each from BEM, IEM and ACEM, whereby IEM is represented by Ir. Ong Ching Loon, the IEM President and Ir. Prof. Dr. Norlida Buniyamin, the IEM Deputy President.

The processing of applications from IEM members for these Registers is under the purview of the Standing Committee on Admissions and Practical Training chaired by Ir. Chen Harn Shen. Membership Application Board chaired by Ir. Dr. Lee Yun Fook would vet and process all applications and forward the submissions to the Standing Committee for approval. To date, a total of 462 members have registered for both the Registers.

The present strength of the register is 577 members. The details are as follows: (Admitted and Total Registered 2021) = 26 Members + 551 (Active member 2020) Total registered members according to accession numbers = 681

	Civil	Mechanical	Electrical	Structural	Electronic	Chemical	Petroleum	Total	YTD
January 2021	3	3	-	1	1	-	-	8	559
September 2021	6	2	1	-	1	1	-	11	570
December 2021	3	-	2	-	1	-	1	7	577
								26	

1	Total registered APEC Engineer/IPE members	577
2	Deleted, resigned and deceased	104
3	Reinstated	0
	Total registered applications	681

IEM was audited for the APEC/IPEA Register in 2021 and was given an extension to maintain the IntPE and APEC Engineers Register for another 6 years from 2021.

IEM was also approved as Provisional Member of the International Engineering Technologists Agreement (IETA) and Agreement for International Engineering Technicians (AIET) Registers on 24th June 2021.

11.14 International Engineering Alliance (IEA)

The International Alliance Meeting (IEAM 2021) was held virtually with the online meeting hosted by the IEA Secretariat in Wellington, New Zealand. The travel ban caused by the Pandemic COVID-19 worldwide was still in enforcement and hence only virtual meetings were arranged. The IEAM was held from 20th to 25th June 2021 based on New Zealand time zone.

Ir. Ong Ching Loon, IEM President 2021/2022 and Chairman of the Standing Committee on Examinations and Qualifications, Ir. Hj. Mohd Aman bin Idris together with Ir. Prof. Dr. Norlida Buniyamin were able to attend the meeting as there was no limit for attendance since it is a virtual meeting. Malaysian representatives attending the IEA were separated at two venues of which BEM hosted the venue for the Accords while IEM hosted the venue for the Agreements.



IEM members and Excomm members who attended the meetings of the Accords/Agreement also included Ir. Chen Harn Shen, Ir. Lee Boon Chong, Ir. Fam Yew Hin, Ir. Dr. Leong Wai Yie, Ir. Yam Teong Sian, Ir. Prof. Dr. Tan Chee Fai, Ir. Mohd Khir Muhammad, Ir. Yau Chau Fong, Ir. K Gunasagaran, Ir. Assoc. Prof. Dr. David Chuah Joon Huang, Ir. Dr. Aidil bin Chee Tahir and Ir. Dr. Teo Fang Yenn.

11.15 Federation of Engineering Institutions of Asia and the Pacific (FEIAP)

IEM continued to host the permanent FEIAP Secretariat for five years from 2018 until 2023. Ir. Dr. Tan Yean Chin remained as the Secretary-General while Prof. Dr. Hwang Wei of Northwestern Polytechnical University (NWPU) of Chinese Association of Science and Technology (CAST) continued as the FEIAP President for a third session. Dr. Charlie Than of Myanmar Engineering Council (MEngC) continued as the FEIAP Vice President. The 29th General Assembly was conducted virtually on 15th July 2021. The FEIAP Standing Committee meetings were from 12th to 14th July 2021.

During the online virtual General Assembly, Y.Bhg. Tan Sri Dato' Ir. Prof. Em. Dr. Chuah Hean Teik continued as the Chairman of the Standing Committee on Engineering Education while Ir. Yeoh Su Hong maintained his chairmanship of the Youth Talent Development Working Group. The GA meeting scheduled to be held in Cebu, Philippines for the said year was postponed and had to be re-scheduled to July 2022.

The 13th FEIAP Exco meeting was again held virtually on 26th November 2021 hosted by the FEIAP Secretariat in Petaling Jaya. NPU-FEIAP B&R Engineering Education Training Centre based in Xi'an, China continue to provide training courses for its member economies. FEIAP had also set up the AAP Accord Engineering Education Council in collaboration with Federation of African Engineering Organisations (FAEO).

11.16 Federation of Engineering Institutions of Islamic Countries (FEIIC)

The IEM representatives to FEIIC as identified by Excomm remained as Ir. Mohd Khir Muhammad, Ir. Prof. Dr. Norlida Buniyamin and Ir. Dr. Ruslan Hassan who was to attend any meetings and General Assembly organized for FEIIC.

Ir. Prof. Dr. Ruslan's attendance would nevertheless be on self-financing basis. Dr. Jamil Jarallah Bagawi of Saudi Council of Engineers (SCE) continued as the FEIIC President while the Deputy President is Engr. Jawed Qureshi of Pakistan Engineering Council (PEC). The Malaysian representatives, Ir. Prof. Megat Johari bin Megat Mohd Noor was elected the Vice President while Ir. Dr. Ruslan was elected as its Council member.

IEM and MySET had formed the FEIIC National Monitoring Committee with the IEM Representatives identified by Excomm serving in this Committee.

The Regional Secretariat for FEIIC continued to be based in Serdang, Selangor. No meetings had been arranged due to the CMCO in Malaysia since 2020.

11.17 World Federation of Engineering Organisations (WFEO)

Prof. Gong Ke continued as the President of WFEO until March 2022 with Engr. Mustafa bin Shehu of Nigerian Society of Engineers (NSE) as the Executive Vice President of WEFO. The President-Elect, José Manuel Vieira of FEANI, the European Federation of National Engineering Associations would take over the presidency on 10th March 2022.

IEM President and Hon. Secretary remained as the official representatives to WFEO. The General Assembly would be hosted by Colegio Federado de Ingenieros y de Arquiectos de Costa Rica (CFIA) in San Jose, Costa Rica from 9th to 10th March 2022. WFEO would also be host the 3rd World Engineering Day on 4th March 2022. All engineering institutions have been invited to celebrate this Day in their own way.

11.18 Commonwealth Engineers Council (CEC)

Prof. Paul Jowitt, ICE Past President remained as the President of CEC for another session. CEC continued to publish its newsletter highlighting its achievements as part of its activity for the year. CEC intended to revive its active status and would be looking into Constitutional changes and conducting an election in 2023 to form the Executive Committee.

11.19 Asian Pacific Confederation of Chemical Engineers (APCChE) Director's Board Meeting and Congress

IEM would be hosting the APCChE Board Meeting and Congress in 2022 together with the APCChE at KLCC in August 2022. Ir. Prof. Dr. Dominic Foo Chwan Yee continued as the representatives of IEM at the APCChE meetings.

11.20 International Tunnelling Association (ITA)

Ir. Dr. Boon Chia Weng continued as the IEM representative for the ITA young members with Ir. Dr. Ooi Teik Aun as the IEM official representative to ITA Council.

11.21 International Activities

The Institution continued its close rapport and liaison with the following associations and organisations on matters of common interest:

- ASEAN Federation of Engineering Organisations (AFEO)
- Commonwealth Engineers Council (CEC)
- World Federation of Engineering Organisations (WFEO)
- Federation of Engineering Institutions of Islamic Countries (FEIIC)
- Federation of Engineering Institutions of Asia and the Pacific (FEIAP)
- Asian Pacific Confederation of Chemical Engineers (APCChE)

The Institution also continues to foster close relationships with professional Institution in USA, UK, Japan, Korea and China. Some of these organisations are:

- Institution of Engineers, Singapore (IES)
- Hong Kong Institution of Engineers (HKIE)
- Engineers Australia (EA)
- Korea Professional Engineers Association (KPEA)
- The Institute of Electrical and Electronic Engineers, USA (IEEE)
- The Institution of Civil Engineers, UK (ICE)
- The Institution of Mechanical Engineers, UK (IMechE)
- The Institution of Chemical Engineers, UK (IChemE)
- The Institution of Engineering and Technology (IET)
- Japan Federation of Engineering Societies (JFES)
- China Association for Science and Technology (CAST)
- The Institution of Engineers, India (IEI)
- Institute of Marine Engineering, Science and Technology (IMarEST)
- Royal Institution of Naval Architects (RINA)

12 AWARDS COMMITTEE

- 12.1 Ir. Ong Ching Loon, the IEM President, chaired this Committee for the session 2021/2022. The Committee met 4 times in the session to discuss as well as evaluate the submissions for the various IEM awards as follows:
 - Outstanding Engineering Achievement Award
 - Award for Contribution to Engineering Profession in Malaysia
 - Woman Engineer Award
 - Young Engineer Award
 - · Engineering Hall of Fame
 - Best Technical Papers Award

The list of winners for these awards are tabulated in the front pages of this Annual Report.

- 12.2 Other duties of the Awards Committee included identifying prominent and distinguished members who have contributed to the construction, engineering profession and nation for consideration to be nominated and conferred the following:
 - IEM Honorary Membership
 - AFEO Honorary Membership
 - FEIAP Engineer of The Year
- Besides the nomination of candidates, awards and conferment of titles, the Committee also submitted names and nominees for the Federal and State awards for Datukships and various other decorations.

The Committee also looked into other awards both locally and overseas that members of the Institution or outstanding projects could be encouraged to submit their credentials. Such awards include:

- WFEO Awards Medal of Excellence
- ASEAN Outstanding Engineering Achievement Award
- CIDB MCIEA Awards
- Merdeka Award
- Malaysian Service Providers Confederation Award
- Society of Chemical Engineers, Japan Award

13 SPECIAL COMMITTEE ON AMENDMENTS TO CONSTITUTION AND BYLAWS

- Further improvements are being made by the Special Committee under the chairmanship of Ir. Lai Sze Ching and will be presented to the AGM on 16th April 2022 for approval.
- 13.2 The proposed amendments approved by the Council for presentation to the AGM are tabulated at the front pages of this Annual Report.

14 IEM EDUCATION FUND

14.1 The Board of Management of the IEM Education Fund continued to be chaired by the IEM President. This Committee meets once every three months to monitor the activities of the Fund and to consider scholarship to the needy students.

Like previous years, gold medals were awarded to the best final year engineering students from all the universities and institution of higher learning in Malaysia who have collaboration with IEM were presented with the gold medal. For the year 2021, a total of 29 universities submitted their nominees for the IEM Gold Medal Award which was subsequently presented during IEM's 62nd Annual Dinner on 26th December 2021.

The IEM Book Prize is awarded to the best first year engineering student of all universities who had signed MOUs with IEM. Unfortunately, no submissions were received from any Universities or IHLs in 2021.

Scholarships available for application were announced in the IEM official website regularly. For the year 2021, Ms. Tsen Bao Xuen from University Malaya was awarded the Thean Lip Thong Memorial scholarship.

Koon Yew Yin Perak Scholarship was awarded to a total of 7 candidates listed below. This scholarship was established with a donation from Mr. Koon Yew Yin for students from the state of Perak.

Soo Jia Sheng @ UTAR	RM10,400
Soo Qian Ying @ Kolej Matrikulasi Perak	RM3,600
Tan Pei Shi @ UTAR	RM5,200
Crystalynn Wong Jin Ying @ Universiti Teknologi Petronas, Perak	RM12,000
Lee Mun Cheok @ UTAR	RM10,365
Intan Zulaikha binti Zahari @ Maktab Rendah Sains MARA Pengkalan Hulu	RM2,500
Ang Jia Pei @ UTAR	RM5,200

For the year 2021, total amount of donations by members to the IEM Education Fund stood at RM35,727 compared to RM55,826 in 2020. The Board would also like to record its sincere appreciation to all IEM members who donated generously to the IEM Education Fund.

14.2 New Scholarship

In 2021, IEM introduced a new scholarship named TT Chiam Memorial Scholarship in memory of IEM Past President, the Late Ir. Chiam Teong Tee. The scholarship was established with funds contributed by the Geotechnical Engineering Technical Division as well as ICE Malaysia Student Chapter. This scholarship is open for applications now.

14.3 IEM Student Sections

The Board now has 29 IEM Student Sections set up at various universities.

These Student Sections are based at the following univesities:

- 1) Universiti Multimedia MMU (Melaka)
- Universiti Teknologi Malaysia UTM
- 3) Universiti Sains Malaysia USM (Nibong Tebal, Pulau Pinang)
- 4) Universiti Teknologi MARA UiTM (Shah Alam)
- 5) Universiti Teknologi MARA UiTM (Pulau Pinang)
- 6) Universiti Tenaga Malaysia UNITEN (Bangi)
- 7) Universiti Tunku Abdul Rahman UTAR (KL)
- 8) Universiti Teknologi Petronas UTP (Perak)
- 9) Universiti Malaysia Sabah UMS (Sabah)
- 10) Universiti Malaysia Pahang UMP (Pahang)
- 11) Universiti Tunku Abdul Rahman UTAR (Kampar)
- 12) Universiti Tun Hussein Onn Malaysia UTHM (Batu Pahat)
- 13) Curtin University Curtin (Sarawak)

- 14) Universiti Malaysia Perlis (UniMAP)
- 15) Universiti Teknikal Malaysia Melaka (UTeM)
- 16) Universiti Malaysia Sarawak (UNIMAS
- 17) Universiti College Sedaya International (UCSI)
- 18) Asia Pacific University of Technology and Innovation (APU)
- 19) Monash University Malaysia (MUKL)
- 20) Multimedia University MMU (Cyberjaya)
- 21) Taylor's University Lakeside Campus (Subang)
- 22) Swinburne University of Technology (Sarawak)
- 23) The University of Nottingham Malaysia
- 24) Nilai University
- 25) Manipal University
- 26) International Islamic University Malaysia
- 27) SEGi University
- 28) Tunku Abdul Rahman University College
- 29) MAHSA University

The Education Fund Management Board allocates a budget of RM1,000.00 to each Student Sections for its annual activities. Student Sections can submit their proposed plan for activities to request for the allocation.

14.4 The Education Fund Management Board also continue to sponsor the Tan Sri Hj. Yusoff Ibrahim FYP (Final Year Project) Competition in 2021. The winners for 2021 are as follows:

Winner	Discipline	Project Title
Liew Son Qian <i>Universiti Tunku Abdul Rahman</i>	Material & Manufacturing Engineering	Hydrothermal growth of niobium oxide microrods in ammonium fluoride for electrochromic application
2 nd Prize	Discipline	Project Title
Tan Tze Jie Monash University Malaysia	Civil Engineering	Assessment on The Structural Behaviour of Novel Candle-Loc Inter-module Connection Using Finite Element Analysis
3 rd Prize	Discipline	Project Title
Tan Wei Kun <i>Universiti Tunku Abdul Rahman</i>	Electronic & Communication Engineering	loT Based Car Plate Recognition System
Consolation Prizes	Discipline	Project Title
Teo Yar Lee Multimedia University	Electrial Engineering	Optimising Energy Consumption of A Rice Milling Plant through Intelligent Control of the Paddy Dryer
Kwa Eng Keat Universiti Tunku Abdul Rahman	Biomedical Engineering	Finite Element Modelling of Bone Tissue Scaffolds: Correlation between Material Properties and Scaffold Strength
Farah Rosmaniza Binti Redzuan Universiti Teknologi Petronas	Petroleum Engineering	Foam Stability Performance (Half-Life) of Alpha Olefin Sulfonate(AOS) – COCO Glucoside (APG) with Variation in Concentration of Surfactants, The salinity and the Temperature
Mohd Fazli Bin Abd Rashid Universiti Putra Malaysia	Civil Engineering	Bending Behaviour of Reinforced Concrete Beam Using Hybrid Glass Fiber Reinforced Polymer (GFRP) and Steel Reinforcement Bars.
Choi Zhi Chuan Universiti College Sedaya International	Mechatronic Engineering	Development of effective metaheuristic search algorithms through hybridization approach

15 IEM POSITION PAPERS

15.1 The Co-ordinating Committee for Position Papers chaired by the President, Ir. Ong Ching Loon was entrusted to monitor and co-ordinate the progress of the Committees set up to prepare each position paper.

15.2 The following Position Papers have been successfully completed and extended to the respective Ministries:

No.	Position Paper Title	Chairman
1.	Building Capacity of Railway Systems Engineering for the Future	EETD – Ir. Dr. Amir Basha
2.	The Impact of Sea Level Rise on Coastal Communities and Development	WRTD – Dato' Ir. Noor Hisham bin Mohd Ghazali
3.	Employment of Professional Engineers in Key Government Positions	PSESIG - Datuk Ir. Lt. Kol. (B) Kamaruzaman Zainal
4.	Benchmarking the Quality of Engineers (Revised February 2019)	Dato' Ir. Dr. Gue See Sew

Position Papers currently in progress are as follows:

No.	Position Paper Title	Chairman
1.	Promoting Active Transportation in Achieving Low Carbon City	HTETD - Ir. Dr. K. S. Asitha Krishnan Sivasankaran
2.	Green/Alternative Energy Technologies	EETD, METD, ENETD & CETD
3.	Water Supply Resilience in Malaysia	DRRAB – Ir. Steven Toh Chin Kok
4.	Flash Flood in Malaysia	WRTD – Ir. Dr. Wong Wai Sam
5.	Revolutionized Construction 4.0	Ir. Prof. Dr. Jeffrey Chiang Choong Luin
6.	Human Capacity Building for National Policy on Industry 4.0 (Industry 4WRD)	Ir. Dr. Tan Chee Fai
7.	Development of Smart Manufacturing Guidelines	Ir. Dr. Tan Chee Fai

16 BRANCHES AND SECTIONS

16.1 **Penang Branch**

16.1.1 Ir. Bernard Lim Kee Weng was elected as the Branch Chairman for session 2021/2022. The total membership as at of 31st Dec 2021, the Branch stands at 2,265 with 1 Affiliate member, 3 Associate Members, 1 Engineering Technologist Graduate, 31 Fellow, 490 Graduates, 3 Incorporated Members, 581 Members, 20 Senior Graduates, 4 Senior Members and 1131 Student Members.

During the 2021/2022 session, the IEM Penang Branch Committee together with the Young Engineers Section (YES) and Women Engineers (WE) have organized numerous activities despite the pandemic situation. School career talks and engineering career camp were also organized as awareness programmes for students for them to understand an engineering career. Seminars, courses, workshops, and technical talks were also conducted solely aimed towards the success of Continuous Professional Development and Lifelong Learning Programmes.

A total of 119 CPD activities were carried out in 2021.

01/01/2021	YES Healthy Day - Hiking at Youth Park, Penang Participated by 12 YES members.	
05/01/2021	Recruitment Drive in UiTM Dato' Ir. Dr. Goh Teik Cheong is the speaker and was attended by 150 students.	
16/01/2021	YES Brainstorming - Make A Plan (MAP) Day 19 YES members attended this brainstorming meeting.	
26/01/2021	Technical Talk on Design of Stone Columns 39 participants attended this talk. Dr. Ng Kok Shien is the speaker.	
30/01/2021	Workshop on Route to PE This workshop is facilitated by Ir. Dr. Mui Kai Yin and there are 45 participants.	
31/01/2021	Blood Donation in collaboration with HYS Metta Blood Donation Group This campaign is organized by WE together with YHS Metta Blood Donation Group and there are 519 participants.	
25/02/2021	The Event Horizon Telescope: The First Black Hole Image and Beyond This Talk is by Dr. Kevin Koay Jun Yi and 25 members attended.	



27/02/2021	Understanding Psychrometrics in Air Conditioning Applications There are 29 participants. Ir. Chua Keng Seng is the Speaker.
05/03/2021	Online Talk: Don't Give Fire A Chance The talk is by Mr. Reuben Teoh, attended by 25 members.
05/03/2021	InspireMe Talk: Essential Attribute of Successful Engineers in Practice 27 members attended this talk given by Ms. Ng Shoak Pheng.
06/03/2021	WE Hiking Day at Bukit Hijau, Penang Attended by 27 WE and YES committee members.
13/03/2021	InspireMe Talk: What I did with a Physics degree? This free talk is by Dr. Khong Yoon Loong with 145 students attended.
20/03/2021	Industry 4WRD: Digital Transformation in Engineering & Construction Ir. Dr. Tan Chee Fai is the speaker for this talk and it was attended by 17 members.
26/03/2021	54th Annual General Meeting 141 corporate members attended this AGM.
31/03/2021	IEM Recruitment Drive 2021 with IEM Student Section (IEMSS) UiTM Speaker for this Drive is Ir. Bernard Lim and there are 135 students participated.
10/04/2021	Interaction Day & Hiking Day by WE and YES Attended by 9 committee members.
06/04/2021	Courtesy Visit to with Dato' Ir. Jaseni Madinsa, CEO Of PBA 4 Executive Committee members visited Dato' Ir. Jaseni in his Komtar office.
16/04/2021	Grooved End Technology & Solution to Improve Efficiency and Solve Modern Application Requirements (Part 1) By Mr. Darien Phan. It was attended by 31 participants. Grooved End Technology & Solution to Improve Efficiency and Solve Modern Application Requirements (Part 2) By Mr. Darien Phan. It was attended by 23 participants.
21/04/2021	Courtesy Visit to En. Zahidi bin Hashim, Pengarah of Lembaga Pembangunan Industri Pembinaan Malaysia - CIDB Negeri Pulau Pinang This visit was attended by 4 Executive Committee members.
23/04/2021	Courtesy Visit to Chief Minister of Penang, Tn. Chow Kon Yeow Ir. Bernard Lim and 7 Committee members paid a visit to Tn. Chow Kon Yeow.
24/04/2021	MS 1910 : 2006 Fixed Firefighting Systems - Automatic Sprinkler System This talk was by Ir. Gary Lim Eng Hwa and there are 44 participants.
28/04/2021	Courtesy Visit & Dialogue with George Town World Heritage Incorporated This virtual visit cum dialogue was attended by 4 Executive Committee members.
29/04/2021	30 years of Compressor Research and Innovations at NTU Singapore Dr. Ooi Kim Tiow is the speaker for this talk and was attended by 21 members.
06/05/2021	Courtesy Visit to YS PKPjB Saadon bin Moktar, Pengarah Jabatan Bomba dan Penyelamat Malaysia Negeri Pulau Pinang This visit and dialogue session was attended by 4 Executive committee members.
07/05/2021	Prestressed Concrete Design This talk is attended by 39 members. Ir Cheah Yong Chen is the speaker.
11/05/2021	Courtesy Visit & Dialogue with PSDC (online platform) 4 Executive Committee members attended this visit and dialogue.
18/05 - 25/05/2021	Donation for Saving Lives of Covid-19 Patients 39 members supported and contributed to this donation drive to purchase 1 unit High Flow Nasal Cannula (HFNC) device for Penang General Hospital.
22/05/2021	InspireMe Talk: Stepping Out-There and back again This free Talk was by Professor Cheah Kok Wai. There are 85 students and members attended.
24/05/2021	Bengkel Penyediaan Laporan Traffic Impact Assessment (TIA) This virtual workshop was attended by 122 participants.



27/05/2021	Recent Development in 5G EMF Policies, Guideline, Radiation Measurement and Monitoring En. Anwar Faizd Osman is the speaker for this talk and was attended by 28 members.
31/05/2021	Mechanical Car Park System 36 participants attended this talk. The speakers are Law Yen Soon, Andy Chin and Patrick Charles
31/05/2021	Forum with UiTM: Changes & Challenges in Engineers Daily Routine during the Covid-19 Pandemic. This forum was facilitated by Ir. Dr. Mui Kai Yin, Ir. Paul Phor and Ir. Fong Choon Fuoi. It was participated by 50 students.
01/06/2021	Advance Metering Infrastructure (AMI) or Smart Meter in Penang (Briefing by TNB) 100 members attended this talk which was given by Datin Siti Laila Sri Asih binti S. Garieb.
10/06/2021	Heart-Count: Optimizing Performance for Business Sustainability in Digital Era Ir. Dr. Rajendran Muthuveloo is the speaker for this talk which was attended by 10 members.
16/06/2021	Best Practice in the Design of Lightweight Steel Framing System This online talk was attended by 24 members and Mr. Jack Chum is the speaker.
24/06/2021	A Peak into the Silent Future of Acoustic Poly-propylene Drainage Systems The speaker for this talk is David Herensperger and it was attended by 115 members.
25/06/2021	Starting Large Motors Needs Caution There are 128 participitants. The speaker is Mr. Christian Peilert.
10/07/2021	Covid-19 SOP Compliance & Construction Site Safety Dr. Mokhtar Zamimi Ranjan is the speaker, and it was attended by 18 members.
12/07/2021	Construction Payment Disputes & Resolution through Construction Industry Payment & Adjudication ACT (CIPAA 2012, Effective on 15/04/2014) This talk is by Mr. Lim Fan Chong and there are 26 participants.
17/07/2021	Covid-19 Vaccination: What you need to know Dr. Chung Wai Keat is the speakre for this free talk and it was attended by 16 participants.
22/07/2021	Introduction to CIDB Construction Personnel under CIDB Act (Act 520) 20 members attended this talk. Assoc. Prof. Ir. Dr. Muhammad Arkam bin Che Munaaim is the speaker.
24/07/2021	eETD 13 th Annual General Meeting 40 members attended this AGM.
26/07/2021	Ask the Expert: What else are our roles amidst the Covid-19 pandemic? This free talk is given by Dr. Ang Peng Peng and there are 35 participants.
30/07/2021	Meeting with PSDC: Joint-event between IEM and PSDC 2 Executive Committee attended this meeting.
31/07/2021	InspireMe Talk: What I did with a Physics degree? (Part 2) Dr. Khong Yoon Loong is the speaker for this free talk. There are 32 students attended.
04/08/2021	Dialogue with IWK: Appeal for leniency during pandemic 4 Executive Committee members attended the dialogue with IWK.
06/08/2021	Apache Kafka: Event Streaming and Analytics in the Industry 4.0 World Dr. Clinton Chee is the speaker for this talk and it was attended by 16 members.
08/08/2021	(Medical Talk) Ask the Expert: What are my options for backpain? 60 members attended this FreeTalk via zoom and Facebook live platforms. Dr. Gee Teak Sheng is the speaker.
09/08/2021	Dialogue with Jabatan Kejuruteraan, MBPP 8 committee members and MBPP staff attended this virtual dialogue.



14/08/2021	Utilization of Ground Granulated Blastfurnace Slag and Fly Ash for Structural Concrete Production Assoc. Prof. Ir. Dr. Cheah Chee Ban is the speaker for this talk and was attended by 36 participants.
16/08/2021	Special Meeting with President Ir. Ong Ching Loon with Vice President Ir. Yau Chau Fong & Hon. Secretary Ir. Dr. David Chuah Joon Huang 13 committee members attended this virtual meeting.
20/08/2021	(Medical Talk) Ask the Expert: Taking good care of your kidney This free medical talk is by Dr. Leong Choong Men. 40 participants attended.
26/08/2021	Properties of Masonry Structures and The Selection of Materials for Bricks and Blocks Prof. Ir. Dr. Badorul Hisham Abu Bakar and Assoc. Prof. Dr. Jamaludin bin Mohamad Yatim are the speakers for this talk and was attended by 29 members.
27/08/2021	Slope Mapping & Assessment using LiDAR This talk is by Gs. Lim Chor Sheng and it was attended by 36 members.
28/08/2021	Taklimat Garispanduan Keselamatan Aktiviti Pertanian Di Kawasan Berbukit Pulau Pinang 2021 This briefing is by Pengarah Kejuruteraa, MBPP, Ir. Rajendran P. Anthony. There are 58 participants.
02/09/2021	eETD collaboration with IEEE, TAM & IET An Organic-Photoconductive-Film CMOS Image Sensor's Advanced Technologies Kazuko Nishima is the speaker for this talk and was attended by 30 members.
07/09/2021	Overview on Investigation of Construction Accidents This talk is by Tn. Abdul Razak Husin and there are 58 participants.
15/09/2021	eETD collaboration with IEEE, TAM & IET Tiny and Efficient - Power Management as a Key Functional in Microelectronic System The speaker is Prof. Dr. Ing. Bernhard Wicht and it was attended by 40 participants.
18/09/2021	(Medical talk) Introduction to Anesthesia & Intensive Care This free medical talk is by Dr. Lim Chee Pin. It was attended by 156 participants via Zoom and Facebook Live platforms.
20/09/2021	Nanoporous Materials & Their Applications Assoc. Prof. Dr. Fei-Yee Yeoh is the speaker for this talk and was attended by 14 members.
23/09/2021	Progress in 3D Printing and Additive Manufacturing at NTU Singapore 34 participants attended this Talk. Prof. Yeong Wai Yee is the speaker.
25/09/2021	Collaboration with MGBC: Marine & Ecological Engineering 82 participated in this Collaboration talk.
28/09/2021	Virtual Courtesy Visit to Perbadanan Pembangunan Pulau Pinang (PDC) There are 18 committee members and managerial staff of PDC attended this virtual visit cum dialogue.
29/09/2021	CPT-Based Design for Driven Piles This talk is by Ir. Dr. Lim Kit Kheng and was attended by 74 participants.
30/09/2021	(Medical Talk) Depression – "Fact vs Myth" This free medical talk is by Dr. Wee Kok Wei and attended by 146 participants via Zoom and Facebook live platforms.
01/10/2021	Virtual Meeting with PWDC on collaboration of Events This meeting is attended by 8 committee members and PWDC committee members.
02/10/2021	Overseas Experience in Traffic and Transport Data Collection Mr. Marty Prowse is the speaker for this talk and was attended by 121 participants.
04/10 - 05/10/2021	Collaboration with USM 2-Day Course: Data Management For Sustainbale Transport & Mobility Prof. Dato' Dr. Ahmad Farhan, Assoc. Prof. Ir. Ts. Dr. Leong Lee Vien & Assoc. Prof. Dr. Nur Sabahiah are the speakers. The 2 days Course were attended by 22 members.



08/10/2021	Virtual Dialogue with Persatuan Akitek Malaysia (PAM), Northern Chapter 8 committee members and representatives from PAM attended this dialogue.
08/10/2021	The Role of Sustainable Materials for Energy Efficient Buildings Ts. Dr. Salmia Beddu is the speaker for this talk and was attended by 33 participants.
09/10/2021	MaTD Annual General Meeting (Penang Branch) This AGM is led by Prof. Ir. Dr. Cheong Kuan Yew and was attended by 55 members.
14/10/2021	Design & Construction of Driven Piles over Soft Marine Clay 79 members attended this talk. Ir. Lee Pier Tien is the speaker.
16/10/2021	Seismic Vulnerability of Building in Malaysia, Current Situation and Future Challenges Assoc. Prof. Dr. Mohammadreza Vafaei is the speaker for this talk and was attended by 80 participants.
18/10/2021	Awareness Workshop on "Route to MIEM & PE for MPSP management staff & engineers This awareness workshop is by Ir. Bernard Lim Kee Weng for 9 MPSP management staff and engineers.
18/10/2021	Courtesy Visit to Datuk Bandar, MPSP 21 IEM committee members and MPSP management staff attended this virtual visit cum dialogue.
20/10/2021	Recruitment Drive in USM This virtual recruitment drive was led by Ir. Catherine Sim Siew Ping and was attended by 400 students.
21/10/2021	Moisture and Chloride content detection and estimation on Concrete cover by using Ground Penetrating Radar Ts. Syahrul Fithry bin Senin is the speaker and was attended by 22 members.
27/10/2021	Sustainable Nickel for Electric Vehicle Application: Role of Asia in Processing, Manufacturing and Global Supply Chain 15 participants attended this talk and Dr. Kuan Seng How was the speaker.
28/10/2021	Biomass & Plasma Technologies for Sustainability Ir. Dr. Lim Mooktzeng is the speaker and 13 members attended.
29/10/2021	Fundamentals of Concrete Repair and Protection of Concrete Structures Mr. Lim Kean Meng & Ms. Chan Swee Fun are the speakers, and the talk is attended by 73 members.
05/11/2021	Recruitment Drive at UiTM This virtual recruitment drive was attened by 370 students. It was conducted by Ir. Bernard Lim, Sim Kai Sheng and Low Chung Kitt.
13/11/2021	What is Next on Nem Solar PV (RE) Renewable Energy Ir. Chau Hoo Wan is the speaker and was attended by 79 participants.
14/11/2021	(Medical Talk) What happened to your Skin? This talk is by Dr. Yeoh Chin Aun and was attended by 24 participants.
18/11/2021	Soil Stabilization & Ground Improvement Application Ankur Agarwal & Ir. Saiffuddin bin Sheafi are the speaker for this talk. It was attended by 64 participants.
20/11/2021	3-Dimensional Limit Equilibrium - Method for Slope Stability Analysis Assoc. Prof. Ir. Dr. Mohd Ashraf Mohamad Ismail is the speaker. There are 70 participants.
23/11/2021	Awareness Talk on Route to MIEM & Professional Engineers for PDC management staff 22 PDC management staff attended this awareness talk by Ir. Bernard Lim Kee Weng.
26/11/2021	SIDRA Traffic Modelling for Intersections and Networks Dr. Rahmi Akçelik & Mark Besley are the speakers. There are 83 participants.
27/11/2021	Route to MIEM & Professional Engineers This workshop is conducted by Ir. Dr. Mui Kai Yin and was attended by 25 participants.
27/11/2021	Technical visit to Yongyang Sdn Bhd This physical technical visit is attended by 18 members led by Ir. Wong Jian Choon.

03/12/2021	Urban Transportation - Engaging Local Community Participation for Sustainable Urban Transport Solutions There are 150 participants attended this physical collaboration event with MALA.
17/12/2021	Addressing the frequent landslides/ flash floods in Penang – what have caused them & what are to be done? Ir. Yau Ann Nian, Prof. Dr. Fauziah Ahmad & Ts. Dr. Hj. Nor Azizi bin Yusoff are the speakers for this talk. There are 85 participants.

16.2 Southern Branch

16.2.1 Ir. Wong Yee Foong, served as the Chairman for session 2021/2022. The total membership as of 12th February 2022 of the Southern Branch stands at 4863 with 56 Fellows, 1 Honorary Fellow, 4 Senior Member, 639 Members, 24 Senior Graduate, 538 Graduate Members, 1 Affiliate Member, 4 Incorporated Members, 1 Engineering Technologist Graduate, 1 Engineering Technician Graduate, and 3594 Student Members. The following activities were conducted by the Southern Branch for the year 2021:

The following activities were conducted by the Southern Branch for the year 2021:

09/01/2021	YES IEM (Southern Branch) Annual General Meeting Session 2020/2021 Was conducted via Zoom Platform.
26/02/2021	YES Sharing Night Session #1: Route to PEPC for Chemical Engineering and Environmental Consultancy Organized by YES IEM (Southern Branch) via Zoom Platform.
13/03/2021	Talk on "Professional Interview - Outcome-Based Competence Assessment (OBCA) Workshop: Route to Become M.I.E.M and Professional Engineer" For Graduate Members via Zoom Platform.
18/03/2021	Courtesy visit to Menteri Besar Johor's office The visit was led by Ir. Ong Ching Loon (President of IEM), Ir. Mohd Khir Muhamad (IEM Vice President), Ir. Assoc. Prof. Dr. David Chuah Joon Huang (IEM Hon. Secretary), Southern Branch Chairman, Ir. Wong Yee Foong, Ir. Kamisan Turiman and Southern Branch Past Chairman Dato' Ir. David Lee Hoke Hai.
19/03/2021	YES Sharing Night Session #2: Tax Planning for Engineer Organized by YES IEM (Southern Branch) via Zoom Platform.
20/03/2021	Webinar: Talk on "Plasma Processing Technology and Its Application in Semiconductor Industries" Via Zoom Platform.
27/03/2021	The 48th Annual General Meeting (AGM) of The Institution of Engineers, Malaysia (Southern Branch) Was conducted via Zoom Platform with attendance of 147 members.
01/04/2021	IEM-UTHM Student Session Registration Day Session 2020/2021 Was conducted by virtual.
07/04/2021	Memorandum of Understanding (MoU) Signing Ceremony Between Johor Centre for Construction Development (JCCD) and The Institution of Engineers, Malaysia (IEM) in conjunction with Johor Construction Award at Fraser Place, Puteri Harbour The ceremony was attended by President, Ir. Ong Ching Loon and Southern Branch Chairman, Ir. Wong Yee Foong as witness.
09/04/2021	Participated in Technical Visit to Iskandar Puteri, Johor for evaluation of the proposed venue for AFEO 20 th Mid Term Governing Board Meeting Organized by AFEO Working Group (IEM-HQ).
09/04/2021	IEM-UTM Student Section Team Bonding Session Was conducted virtually.
10/04/2021	Webinar: Talk on "Building Information Modelling (ISO 19650 BIM Standard, Certification & Training)" Via Zoom Platform.
13/04/2021	YES Sharing Night Session #3: Social Media Design Made Easy Organized by YES IEM (Southern Branch) via Zoom Platform.



15/04/2021	Python Programming Workshop
13/04/2021	Organized by IEM-UTHM Student Section via Zoom Platform.
16/04/2021	Webinar: Talk on "Development of Inland Waterways Transport System in Malaysia" Via Zoom Platform.
16/04/2021	Sharing Session: The M-Space Organized by IEM-UTM Student Section via Zoom Platform.
20/04/2021	Participated in AFEO Working Group 1 st discussion Chaired by Chairman of IEM (Southern Branch), Ir. Wong Yee Foong to discuss the formation of the organizing committee of 20 th Mid Term AFEO Governing Board Meeting and YES National Summit 2021. The meeting was conducted via Zoom Platform.
24/04/2021	Webinar: Talk on "Usage of Geosynthetic Products on Soft Ground or Reinforced Slope" Via Zoom Platform.
28/04/2021	Forum on Engineer vs Lecturer organized by IMechE and University Malaya Chairman of YES IEM (Southern Branch) was invited as a Guest Speaker.
29/04/2021	Webinar: Talk on "Women in Engineering Opportunities" Organized by IEM-UTHM Student Section via Zoom Platform.
30/04/2021	IEM-UTM Programming Bootcamp Organized by IEM-UTM Student Section via Zoom Platform.
06/05/2021	AUTOCAD Workshop Organized by IEM-UTHM Student Section via Zoom Platform.
07/05/2021	Webinar: Talk on "Route to Professional Engineer" Organized by IEM-UTM Student Section via Zoom Platform.
07/05/2021	Participated in AFEO Working Group 2 nd discussion Chaired by IEM Vice President, Ir. Mohd Khir Muhammad. IEM (Southern Branch) was represented by Southern Branch Chairman, Ir. Wong Yee Fong, Ir. S. Thayala Rajah, Ir. Benee Chng Yu Leng, Dato' Ir. David Lee Hoke Hai. The meeting was conducted via Zoom Platform.
18/05/2021	UTM Engineering Student Virtual Hangout Zone - IEM Sharing Session: Benefits of IEM Membership After Graduating Via Facebook Live.
19/05/2021	Participated in AFEO Working Group 3 rd discussion Chaired by IEM Vice President, Ir. Mohd Khir Muhammad. The meeting was conducted via Zoom Platform.
18/05 & 20/05/2021	InterX - Internship Sharing Experience Organized by IEM-UTM Student Section via Zoom Platform.
20/05/2021	Webinar: Talk on "Road Safety Talk 2021" Organized by IEM-UTHM Student Section via Zoom Platform.
28/05 - 29/05/2021	UTM 1st InvencMax Competition Organized by IEM-UTM Student Section via Zoom Platform.
29/05/2021	Webinar: Talk on "Turbocharging the Downsized Internal Combustion Engines" Via Zoom Platform.
03/06/2021	IEM Sharing and Talk: Benefits of IEM Memberships After Graduating Organized by IEM-UTHM Student Section via Zoom Platform.
04/06/2021	Webinar: Talk on "World of Oil and Gas Industry" Organized by IEM-UTHM Student Section via Zoom Platform.
05/06/2021	Webinar: Talk on "Tensegrity Structures: Applications and Computational" Via Zoom Platform.
05/06/2021	Webinar: Talk on "Post COVID-19: Skills in Demand in Civil Engineering Industry" Organized by IEM-UTHM Student Section via Zoom Platform.
10/06/2021	Career Talk on "Guide to Success: Career Options in Mechanical Engineering Courses" Organized by IEM-UTHM Student Section via Zoom Platform.
12/06/2021	Webinar: Talk on "Biaxial Hollow Flat Slab System" Via Zoom Platform.



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18/06/2021	Participated in 3 rd discussion meeting on 20 th AFEO Mid Term Governing Board Meeting Conducted by AFEO Working Group via Zoom Platform.
18/06/2021	Participated in AFEO Working Group 4 th discussion meeting Chaired by IEM Vice President, Ir. Mohd Khir Muhammad. The discussion meeting was conducted by virtual to updates the status of the preparation the 20 th AFEO Mid Term Governing Board Meeting. In view of the Covid-19 situation, the meeting has agreed that the AFEO 20 th Mid Term Governing Board Meeting to be conducted in the virtual platform and hosted by IEM (HQ).
24/06/2021	IEM-UTHM Student Section Annual General Meeting Was conducted by virtual.
25/06/2021	Webinar: Talk on "The Fundamentals and Applications of Geosynthetics" Via Zoom Platform.
09/07/2021	Webinar: Talk on "Work Smarter not Harder with Drone & 3D survey" Via Zoom Platform.
11/07 - 31/07/2021	Engineers' Virtual Run Was organized by YES IEM (Southern Branch).
14/07/2021	Webinar: Talk on "Integrated Urban Water Management Towards Sustainable Cities" Jointly organized with IEM Water Resources Technical Division via Zoom Platform.
23/07/2021	IEM-UTM Student Section Annual General Meeting Was conducted by virtual.
23/07 & 24/07/2021	Webinar: Talk on "Fuels & Combustion in Steam Generator Burners" Via Zoom Platform.
27/07/2021	Webinar: Talk on "Industry4WRD: Artificial Intelligence Innovation" Jointly organized by IEM Consulting Engineering Special Interest Group (CESIG) via Zoom Platform.
28/07/2021	Webinar Talk on "Water Quality Monitoring and Analysis: Getting It Right" Jointly organized with IEM Water Resources Technical Division via GoTo Webinar Virtual Platform.
30/07/2021	Webinar: Talk on "Slope Stabilization Solution and Mechanical Stabilize Earth Wall Application" Via Zoom Platform.
31/07/2021	Webinar: "Professional Interview - Outcome-Based Competence Assessment (OBCA) Workshop: Route to Become M.I.E.M and Professional Engineers" For Graduate Members via Zoom Platform.
31/07/2021	20th AFEO Midterm Governing Board Meeting
05/08 - 07/08/2021	YES National Summit 2021 YES IEM (Southern Branch) was the host of the event. A total of 119 graduate engineers and engineering students from all over Malaysia participated in this event through the ZOOM application.
08/08/2021	IEM-UTHM Student Section Sharing Session 2021 Via Zoom Platform.
20/08/2021	Webinar: Talk on "Autodesk AEC Collection for Infrastructure Design" Via Zoom Platform.
21/08/2021	Webinar: "Talk on Selection the Right Metal Roofing with Proper Light Weight Truss System" Via Zoom Platform.
23/08, 25/08, 27/08 & 29/08/2021	Onboarding – IEM-UTM Student Section Committee Session 2021/2022 Via Zoom Platform.
25/08/2021	IEM (Southern Branch) Corporate Social Responsibility on "Food Bank" To The Members and Public.
27/08/2021	Webinar: Talk on "Autodesk Civil 3D for Land Development" Via Zoom Platform.



29/08/2021	Professional Interview Workshop: "A guide to the preparation of Training and Experience report (IEM PI A401)" for JPS's Engineers Via Zoom Platform.
03/09/2021	Forum on "Engineering Professionals in Malaysia: Are We Doing Enough?" Organized by Young Professionals and Fresh Graduates in Engineering Malaysia (YouFresh) via Zoom Platform. Chairman of YES IEM (Southern Branch) was invited as a Guest Speaker.
04/09/2021	Webinar: Talk on "Application of Computational Fluid Dynamics (CFD) In Free Surface Flow Problem" Jointly organized with IEM Water Resources Technical Division via Zoom Platform.
10/09/2021	Webinar: Talk on "Autodesk Civil 3D for Road and Highway" Via Zoom Platform.
18/09/2021	IEM-UTHM Student Section Ice Breaking Session 2021/2022 Via Zoom Platform.
24/09/2021	YES Sharing Session: "Laws Engineers Should Know" Via Zoom Platform.
12/09 - 27/09/2021	Merchandise T-Shirt Design Competition organized by IEM-UTM Student Section Via Zoom Platform.
17/09/2021	Webinar: Talk on "Meeting the Challenges of Infrastructure Projects through BIM" Via Zoom Platform.
19/09/2021	Webinar: Talk on "Selected Elements on The Compliance to The Electrical Supply Act 447 And Electrical Regulation" Via Zoom Platform.
22/09/2021	Webinar: Talk on "Sustainable Groundwater Use" Jointly organized with IEM Water Resources Technical Division via Zoom Platform.
25/09/2021	Webinar: Talk on "A Look into Petrochemical Industry" Organized by Swinburne University Sarawak Campus via Zoom Platform. Chairman of YES IEM (Southern Branch) was invited as a Guest Speaker.
28/09/2021	Networking Session 1: Experience in Joining YEAFEO Organized by IEM-UTM Student Section via Zoom Platform. 20 UTM students and 20 YES members attended for networking and experience sharing.
05/10/2021	Webinar: Talk on "Impacts of Climate Change on Coastal Development" Jointly organized with IEM Water Resources Technical Division via Zoom Platform.
05/10/2021	Network with Engineers: Life as a Mechanical Engineer Organized by IEM-UTM Student Section via Zoom Platform. 15 UTM students and 15 YES members attended for networking and experience sharing.
09/10/2021	Network with Engineers: Life as an Electrical Engineer Organized by IEM-UTM Student Section via Zoom Platform. 20 UTM students and 8 YES members attended for networking and experience sharing.
12/10/2021	Network with Engineers: "Is Renewable Energy the Future?" Organized by IEM-UTM Student Section via Zoom Platform. 15 UTM students and 10 YES members attended for networking and experience sharing.
14/10/2021	Webinar: Talk on "Role of BEM to Students, Lecturer, Society and Engineers" Organized by IEM-UTHM Student Section via Zoom Platform.
14/10/2021	IEM-UTHM Student Section Welcoming Night 2021 Was conducted by Digital Platform.
20/10/2021	IEM Membership Virtual Consultancy Space 2021/2022 Organized by IEM-UTM Student Section via Facebook Live with an attendance of 255 UTM students.



21/10/2021	Participated in The Stakeholders workshop Organized by IEM Task Force Committee for Dengue Control via Zoom Platform.
21/10/2021	IEM-UTHM Student Section Membership Registration Day Session 2021/2022 Was conducted via Zoom Platform.
23/10/2021	YES IEM (Southern Branch) Annual General Meeting Session 2021/2022 Was conducted via Zoom Platform.
28/10/2021	Workshop: C++ Programming Organized by IEM-UTHM Student Section was conducted by virtual.
11/10 - 30/10/2021	IEM-UTM Student Section Committee Recruitment Session 2021/2022 Via Google Meet Platform.
06/11/2021	Workshop: "Let's be Professional" Organized by IEM-UTM Student Section via Zoom Platform with an attendance of 57 UTM students.
06/11/2021	Workshop: STAAD.PRO Organized by IEM-UTHM Student Section was conducted by virtual.
11/11/2021	IEM-UTM Student Section Committee Welcoming Session 2021/2022 Was conducted by Digital Platform.
11/11/2021	Workshop: Circuit Design with Proteus Organized by IEM-UTHM Student Section was conducted by virtual.
12/11/2021	Webinar: Talk on "New Approach to Design Road & Embankment Stabilization" Via Zoom Platform.
13/11/2021	Professional Interview Workshop – Outcome-Based Competence Assessment (OBCA): Route to Become M.I.E.M and Professional Engineers for Graduate Members Via Zoom Platform.
13/11/2021	Workshop: "I am Financially Literate" Organized by IEM-UTM Student Section via Zoom Platform.
20/11/2021	Webinar: Talk on "Lightning Protection & Risk Analysis Based on MS IEC 62035 – Session 1" Via Zoom Platform.
20/11/2021	Webinar: Talk on "Route to be M.I.E.M and Professional Engineer" in conjunction with Seminar Kejuruteraan Awam (SEMKA) Program Perdana Semester 1, Session 2021/2022 Via Webex Platform.
27/11/2021	Webinar: Talk on "Introduction to AI on Microsoft Azure" Organized by IEM-UTHM Student Section via Zoom Platform.
27/11/2021	Webinar: Talk on "Lightning Protection & Risk Analysis Based on MS IEC 62035 – Session 2" Via Zoom Platform.
09/11 - 30/11/2021	Webinar: Short Course on "Efficient Energy Management in Commercial and Industrial Buildings" Organized by Electrical Energy System (CEES), Universiti Teknologi in collaboration with IEM (Southern Branch) and UTM Space by digital platform.
04/12/2021	Visit to EWRF Home In-conjunction with IEM (Southern Branch) Social, Sports and Welfare program on "Food Bank" to help who had financial difficulty during this pandemic, the branch had received a donation from IEM member with total amount of RM 2,000/. The Committee had decided to divide in two separate donations, it were be to Johor Cheshire Home and EWRF.
11/12/2021	Webinar: Talk on "Introduction to MATLAB" Organized by IEM-UTHM Student Section via Zoom Platform.
12/12/2021	Badminton Game Was organized by YES IEM (Southern Branch) at Tiara Club.
07/12 & 29/12/2021	Sharing Session – Student's series: Unlock the key to Smart Study Organized by IEM-UTM Student Section via Zoom Platform.



16.3 Sabah Branch

- 16.3.1 A total of 11 Executive Committee meetings were held during the session. A numerous afternoon and evening meetings involving key office bearers were also held to resolve urgent matters from time to time.
 - Ir. Ng Vun Ping was elected as Branch Chairman for the session 2021/2022. This was announced during the 46th Annual General Meeting on 3rd July 2021. Total membership stood at 1,853.
- 16.3.2 During the session of 2021/2022, 4 courtesy calls were made to government agencies, Ministries and other professional bodies:
 - Courtesy Call on Datuk Ir. Melvin Disimond, CEO of KKIP Sdn Bhd on 6th October 2021
 - Courtesy Call to CIDB Sabah on 5th November 2021
 - Courtesy Call to JKR Sabah on 11th November 2021
 - Courtesy Call to DBKK on 2nd December 2021
- 16.3.3 The Sub Committee reported that a total of 50 Professional Interview applications were processed. These consisted of 27 from civil, 13 from mechanical, 7 from electrical, 3 from electronic and 1 from mechatronic. To date, 7 applications are still in progress, 4 applications were referred back to HQ and no outstanding cases.
- 16.3.4 Mr. Jackson Wong Siaw Jye serving as the YES Chairman for session 2021/2022 from August 2021. The YES has been active throughout the session by undertaking noble and meaningful activities. Among the activities completed during the session included:
 - Interview session with SLS member. The topic of the interview was "View of Young Engineers on the topic of Sabah 100 years onward".
 - Group of committees attended virtual "NATSUM 2021" hosted by YES Southern Branch.
 - Organize CSR Activity with UMS Student Chapter "Farming with Bokashi Composting".
 - Organized "Christmas Meet & Greet Year End Party" to greet new engineers and celebrate Christmas together with the committee members.
- 16.3.5 The IPB Games for has been postponed since 2020 due to the Movement Control Order (MCO) imposed by the government.
- 16.3.6 During the session, the Seminar and Trainings Sub Committee had also collaborated with other organisations in organising various courses, workshops and online talks.
- 16.3.7 Activities undertaken by the UMS liaison Sub Committee included:
 - The IEM UMS MoU has been finalized and signed by the IEM President, UMS Vice Chancellor and IEM Sabah Chairman as the witness.
- 16.3.8 The IEM Sabah 44th Annual Dinner was postponed to 2022 due to the pandemic situation.

The Branch also collaborated with Sabah Engineering Association (SEA) and ACEM Sabah to jointly organise the SEA – IEM Sabah – ACEM Sabah Fellowship Gathering Night 2021 held on 11th December 2021 at Hilton Hotel, Kota Kinabalu.

- 16.3.9 The building is occupied by TAS Institute of Oil and Gas as a training centre. The tenant had built additional 2 storey classroom block and basic offshore safety induction training facilities at their own cost.
- 16.3.10 Among the activities undertaken by the Women Engineers (WE) were:
 - Ir. Aishahturizdah Ashgul was elected as the Chairperson during the Annual General Meeting on 27th November 2021
 - Christmas Gathering on 12th December 2021 at Bobo Restaurant, Plaza 333
 - Mount Kinabalu Climbing on 29th December 2021
 - · Virtual meeting on WE Strategic Objectives
- 16.3.11 IEM Sabah had participated in numerous meetings and events with governmental and non-governmental organisations. These meetings were intended to assist in the development of the State and which will be able to ensure engineers and the engineering profession play an important role in nation building. Among the meetings included:



DBKK

- Traffic Technical Committee Meeting
- Mesyuarat Jawatankuasa Perancangan Bandaraya

Board of Engineers Malaysia (BEM)

- BEM Hybrid Mini Convention 2021: Discussion session with Stakeholders
- Strategic Partner of BEM Hybrid Mini Convention 2021.
- 348th Board Meeting & MoU Signing Ceremony at Kota Kinabalu, Sabah

Majlis Daerah Penampang

Bengkel Penambahbaikan Draf Skim Perancangan Daerah Penampang

JKR Sabah

Discussion on organizing of the Online Short Course on "Slope Construction"

Ministry of Local Government & Housing (MLGH)

- e-Planning Permission (ePP24) Demonstration Briefing
- Mesyuarat Semakan Deraf Undang-Undang Kecil Bangunan Seragam Sabah 2021
- Perbincangan Mengenai Bengkel Undang-Undang Kecil Bangunan Seragam Sabah 2022
- Bengkel Undang-Undang Kecil Bangunan Seragam Sabah 2022

Sabah Professional Council

 Meeting on setting up the line-up and portfolios. The council members consisted of representatives from various professional bodies in Sabah

Jabatan Ketua Menteri Sabah (JKM)

 Invitation to Sabah International Business and Economic Summit (SIBES) 2022 at Sabah International Convention Centre (SICC)

The Institution of Engineers, Malaysia (IEM HQ)

- Special Meeting Between Branch Committee and President
- Meeting with IEM President on KKIP Building's Issues

16.4 Sarawak Branch

16.4.1 A total of Seven (7) Branch Committee Meetings were held during the session. The Branch had its 52nd Annual General Meeting on 20th March 2021 at 2nd Floor Conference Room, International Engineering Centre (IntEC), Isthmus Raintree Square, Jalan Keruing, Kuching. Dato' Ir. Janang Anak Bungsu was elected as the Chairman for Session 2021. A total of 158 corporate members attended the meeting. Please refer to the Appendix for meeting frequency records and attendance.

The membership of the Branch for year 2021 was 3,753 with 37 Fellows, 3 Senior Members, 831 Members, 16 Senior Graduate Members, 793 Graduate Members, 1 Engineering Technologist Graduate Member, 5 Incorporated Members, 3 Associate Members and 2,064 Student Members.

16.4.2 The IEM (Sarawak Branch) together with the Graduate & Student (G&S) Section reported that during the session, it had actively organized the following activities:

20/01/2021	The Importance of Implementation of the Lightning Protection System (LPS) Co-organised with Swinburne University of Technology, Sarawak Campus. 82 participants attended the talk by Dato' Ir. Jimmy Lim.
17/02/2021	Variable Refrigerant Flow (VRF) System and Its Special Applications Co-organised with Swinburne University of Technology, Sarawak Campus. 163 participants attended the virtual talk by Mr. Poh Kai Sin.
24/02/2021	Introduction to Offshore Structures 91 participants attended the virtual talk by Mr. Soo Hua Ming.
20/03/2021	IEM Sarawak Branch 52 nd Annual General Meeting 158 members attended the AGM conducted via virtual platform.
24/03/2021	Digital Rehearsal Using 4D Planning Tools Co-organised with Swinburne University of Technology, Sarawak Campus 127 participants attended the virtual talk by Mr. Andy Tiong Meng Jun
21/04/2021	SUTS-IEM Evening Talk Series: "Sustainability and Circular Economy" Co-organised with Swinburne University of Technology, Sarawak Campus. 102 participants attended the talk by Dr. Elammaran Jayamani
19/05/2021	SUTS-IEM Evening Talk Series: "Climate Reality - Truth in Ten" Co-organised with Swinburne University of Technology, Sarawak Campus. 90 participants attended the virtual talk by speaker, Dr. Muhammad Rafiq Mirza bin Julaihi
15/06 -16/06/2021	2-Days Seminar on "Practical and Legal Issues Pertaining to Payment in Construction Contracts (PWD 203/203A) - REV.1/2010)" 89 participants attended this virtual seminar by Sr. Jaspal Singh.
22/06/2021	Technical Talk of Geosynthetic Cementitious Composite (GCCM) 29 participants attended this virtual talk by Mr. Michael Chong.



23/06/2021	SUTS-IEM Evening Talk Series: "Tidal Energy, The Potential of Tidal Currents in Malaysia" Co-organised with Swinburne University of Technology, Sarawak Campus. 98 participants attended this virtual talk by speaker, Mr. Hadi Nabipour Afrouzi.
21/07/2021	SUTS-IEM Evening Talk Series: "How Project Management Knowledge and Skill Can Enhance Your Career Path and Opportunity?" Co-organised with Swinburne University of Technology, Sarawak Campus. 155 participants attended this virtual talk by Ir. Dr. Mui Kai Yin.
26/07 - 27/07/2021	2-Days Course on "Designs of Coastal Protection Structures in Malaysia (DID Manual)" 47 participants attended this online course by Ir. Arman Mokhtar.
05/08/2021	Live Online 1-Day Seminar on "Low Voltage Electrical Protection System" 52 participants attended this online seminar by Mr. Dahari Mat Siran.
21/08/2021	Live Online 1-Day Seminar on "The Fundamental and Applications of Geosynthetics" 57 participants attended this online seminar conducted by Ir. Marcus Jong Ching Joo.
21/08/2021	Online PI Awareness Talk (Bite-Size Program) - Session 1: "How to fill in the A100 Form" 57 participants attended this talk conducted by Ir. Stephanie Sim Hui Kheng.
26/08 - 27/08/2021	Live Online 2-Day Technical Talk on "River Engineering: River Erosion" 29 participants attended this technical talk by Ir. Gs. Mazura Nor.
03/09/2021	Live Online Talk on "Fundamentals of Elevator and Escalator Engineering and Industry Technology" 42 participants attended this talk by Mr. Chan Jan Ee.
04/09/2021	Online PI Awareness Talk (Bite-Size Program) - Session 2: "How to fill in the C300 Form" 16 participants attended this awareness talk conducted by Ir. Stephanie Sim Hui Kheng.
22/09/2021	SUTS-IEM Evening Talk Series: "Selecting a Suitable Cementitious Tile Adhesive" 142 participants attended this virtual talk by Mr. Zhang Wenhui.
02/10/2021	Online PI Awareness Talk (Bite-Size Program) - Session 3: "How to fill in the A401 Form (Training and Experience Report, 18 Competency Elements)" 13 participants attended this talk by Ir. Stephanie Sim Hui Kheng.
16/10/2021	Virtual Special Engagement Session on "Amendments to Regulation 34A(1) of the Registration of Engineers Regulations 1990 (Amended 2015)" 55 participants attended this engagement session conducted by Dato' Paduka Ir. Hj. Keizrul bin Abdullah.
20/10/2021	SUTS-IEM Evening Talk Series: Slope Mapping & Assessment using LiDAR Co-organised with Swinburne University of Technology, Sarawak Campus. 66 participants attended this webinar by Gs. Lim Chor Sheng.
21/10/2021	Live Online Talk on "Ventilation Design In Reducing Airborne Transmission of COVID-19" 23 participants attended this talk by Mr. Alvin Chan Hou Yin.
23/10/2021	3-Days Course on Time and Financial Matters in Construction Contracts Based on the Common Conditions of Contract Used in the Public Sector in Sarawak (Session 1) 18 participants attended this physical course by Sr. Kii Ing Ching conducted at International Engineering Centre (IntEC).
06/11/2021	3-Days Course on Time and Financial Matters in Construction Contracts Based on the Common Conditions of Contract Used in the Public Sector in Sarawak (Session 2) 21 participants attended this physical course by Sr. Kii Ing Ching conducted at International Engineering Centre (IntEC).



16/11 - 17/11/2021	BEM Hybrid Mini-Convention 2021: Integrity in the Engineering Profession - Sarawak Physical Hub 46 participants attended this physical convention organized by Board of Engineers, Malaysia.
20/11/2021	3-Days Course on Time and Financial Matters in Construction Contracts Based on the Common Conditions of Contract Used in the Public Sector in Sarawak (Session 3) 17 participants attended this physical course by Sr. Kii Ing Ching conducted at International Engineering Centre (IntEC).
11/12/2021	Online PI Awareness Talk (Bite-Size Program) - Session 4: "What to include in the design report" 9 participants attended this virtual programme conducted by Ir. Stephanie Sim Hui Kheng.
22/12/2021	SUTS-IEM Evening Talk Series: Energy Efficiency and Air Quality Control with Building Automation Co-organised with Swinburne University of Technology, Sarawak Campus. 39 participants attended this virtual talk by speaker, Mr. Elmar Löeffler.

16.4.3 During the session, the branch has recorded a total of 6 candidates who have sat for their Professional Interview. 4 candidates have yet to sit for their interview and no case was returned.

16.5 Perak Branch

16.5.1 Ir. Loh Ban Ho was elected Branch Chairman for session 2020/2021. As at January 2021, the membership of the Branch was 2,876.00 with 1 Honorary Fellow, 24 Fellow Membership, 2 Senior Members, 412 Corporate Members, 461 Graduate Members, 8 Senior Graduate, 11 Incorporated Members, 1 Associate Member, 2 Affiliate Members, 3 Engineer Technician Graduate Members and 1951 Student Members.

During the session 2020/2021, eleven (10) monthly committee meetings were held to look into the management and activities of the Branch.

16.5.2 Activities organized during the session were as follows:

30/01/2021	Refresher Coure / Workshop for Interviewers. (CPD – 5 hrs) The talk was done from IEM HQ through webinar where 15 participants attended.
27/02/2021	Refresher Coure / Workshop for Interviewers. (CPD – 5 hrs) The talk was done from IEM HQ through webinar where 20 participants attended.
13/03/2021	36th Annual General Meeting (CPD – 4 hrs) Held at IEM Perak Building, Jalan Lapangan Siber 1, Bandar Cyber attended by 25 Committee Members including YES committee
15/07/2021	IEM YES E-Run 2021 The activities organized by IEM Southern Branch with 24 participants.
31/07/2021	Webinar on Site Safety & Health Training. (CPD – 4 hrs) The talk was delivered by Ir. Ts. Dr. Lee Wai Yin with 63 participants.

16.5.3 There were (19) candidates assigned to the Branch for their Professional Interview (PI).

16.6 Melaka Branch

- 16.6.1 Ir. Prof. Dr Puvanasvaran a/I A. Perumal was re-elected as Chairman of the Branch at the 34th Annual General Meeting of the Branch held on 20th March 2021 via virtual platform. The Branch membership was noted at 1,328 comprising 9 Fellows, 1 Senior Member, 201 Members, 8 Senior Graduate Members, 233 Graduate Members, 1 Incorporated Member, 1 Engineering Technologist Graduate Member and 874 Student Members.
- 16.6.2 The activities of the Branch during the last session are listed as follows:

20/03/2021	Pre-AGM Talk on COVID-19: Ensuring Safety and Health at Work 37 participants attended the webinar by Ir. Mohd Fairuz bin Mohd Rashid.
20/03/2021	15 members participated in the IEM Melaka Branch Members Gathering at Orna Golf & Country Club Chinese Restaurant.



09/04/2021	STEM Programme in Sekolah Menengah Teknik Bukit Piatu Melaka – Career Guidance Talk 200 students attended the programme conducted by Ir. Puvanasvaran Perumal, Ir. Hj. Mohd Ariff bin A. Karim and Ir. Dr. Ridza Azri Ramlee.
11/07/2021	CSR Activity – Donation at Taman Inang Sari Durian Tunggal
14/07/2021	Webinar on Early Self Pain Management Techniques for Work Related Musculoskeletal Disorders (WRMD's) Through Physiotherapy Management's Perspective 19 participants attended the webinar conducted by Ms. Vinothini Padmanathan.
24/07/2021	Webinar on Corporate Liability for Consulting Engineers 41 participants attended the webinar conducted by Supt. Kumaran a/l Rengiah and SAC Mohd Nur Lokman bin Samingam.
15/12/2021	Webinar Keselamatan dan Kesihatan di dalam Pekerjaan Kejuruteraan – Pengetahuan dalam Pembelajaran STEM 70 students from Sekolah Menegah Teknik Bukit Piatu attended the webinar conducted by Ir. Puvanasvaran Perumal, Ir. Mohd Fairuz bin Mohd Rashid, Ir. Hj. Mohd Ariff bin A. Karim and Ir. Dr. Ridza Azri Ramlee.
17/12/2021	Technical Visit to Subitec Sdn Bhd 8 participants attended the technical visit.

16.7 Negeri Sembilan Branch

- 16.7.1 Ir. Chong Chee Yen was re-elected as Chairman for the session 2021/2022.
- 16.7.2 The Branch membership was noted at 1,837. There are 13 Fellows, 3 Honorary Members, 301 Members, 21 Senior Graduate Members, 334 Graduate Members, 5 Engineering Technologist Graduate Members, 1 Incorporated Member, 1 Associate Member and 1,158 Student Members.
- 16.7.3 The Branch activities for the session are listed below:

30/01/2021	Refresher Course for Interviewer – Outcome Based Competency Assessment 17 participants attended the webinar conducted by Ir. Chen Harn Shean.			
07/03/2021	Refresher Course for Interviewer – Outcome Based Competency Assessment 6 participants attended the webinar conducted by Ir. Chen Harn Shean.			
27/03/2021	Webinar on Social Capital For Engineering 10 participants attended this webinar by Dr. Rahmat Shazi.			
25/09/2021	28th Annual General Meeting			

16.8 Miri Branch

- 16.8.1 Ir. Sean Wong Siong Ung was re-elected as Chairman for session 2021/2022. The members stood at 404 comprising 17 Fellows, 1 Honorary Member, 2 Senior Members, 97 Members, 6 Senior Graduate Members, 141 Graduate Members, 1 Engineering Technologist Graduate Member, 1 Associate Member and 138 Student Memberss. 12 committee meetings were held in session 2021 2022 to manage the affairs of the Branch in accordance with the IEM Miri Branch Rules.
- 16.8.2 One of the major events held for this year was the Symposium on "Challenges and Opportunities of Infrastructure Development in Borneo" on 10th & 11th September 2021. It was a two-day online event and jointly organized together with Curtin Highway Infrastructure Research and Innovation Hub (CHIRI) of Curtin University Malaysia. The symposium's keynote speakers comprise federal and state government ministers and prominent figures from the Public Works Department, government-linked agencies, private sector and academia. It was a great success, and the two days symposium was attended by over 200 participants from the public and corporate sectors and academia.
 - Seven (7) more Online Webinar/Talks were also successfully organized during the session namely "Financial Planning For Professionals", "Awareness on Covid-19 vaccination", "Coastal Engineering and Inland Waterway Protection", "Scheduled Waste to Energy (SWtE) Project", "Destress by Using the Mind-Body Connection", "Potential of IBS application in Sarawak" and "Child Restraint Seats in Malaysia: What we need to know". All were very well covered by Press as well.
- 16.8.3 Two (2) courtesy visits were conducted this session. The IEM Miri Branch successfully paid courtesy visits to RIAM Institute of Technology Miri and Sarawak Energy Berhad.

- 16.8.4 The Branch managed to jointly organise one (1) community program with Laksa Runner on 9th October 2021. The Plogging at Lutong Beach was participated by Datuk Bandar, Mr. Adam Yii and the event was broadcasted in TV3.
- 16.8.5 The Branch organized the following activities for the session 2020:

27/02/2021	22 nd Annual General Meeting for The IEM Miri Branch at IEM Miri Office.					
13/03/2021	IEM Young Engineer Section (YES) Miri 9th AGM (Online Platform).					
20/03/2021	Talk: Financial Planning For professionals by YES.					
01/04/2021	Courtesy visit to Riamtec Miri.					
05/04/2021	Outreach.					
29/04/2021	Virtual Online Talk on Awareness on Covid-19 Vaccination.					
22/05/2021	Virtual Online Talk on Coastal Engineering and Inland Waterway Protection.					
05/08 - 07/08/2021	IEM Young Engineer Section (YES) Miri attended National Summit (Natsum) 2021 via online virtual.					
11/08/2021	Excomm attended Bomba "1st Sarawak Hybridseminar on Gas Operation Management at Domestic, Commercial & Industrial Building".					
11/08/2021	Special Meeting Between Branch Committee and President.					
21/08/2021	Technical Talk on Scheduled Waste to Energy (SWtE) Projects.					
10/09 - 11/09/2021	Symposium on "Challenges and Opportunities of Infrastructure Development in Borneo".					
24/09/2021	Webinar talk on Destress by Using the Mind-Body Connection.					
02/10/2021	Handover certificate of appreciation to Y.Bhg. Datuk Lee.					
09/10/2021	Plogging at Lutong Beach.					
29/10/2021	Courtesy visit Sarawak Energy Bhd new Regional Manager En. Mohammad Saiful Misi.					

16.9 Kedah/Perlis Branch

- 16.9.1 Ir. Dr. Mohamad Shaiful Ashrul bin Ishak chaired the Branch Committee for session 2021/2022. Membership of the Branch for the session is 2,727 comprising 9 Fellows, 302 Members, 306 Graduate Members, 13 Companions, 5 Incorporated Members and 2,092 Student Members.
- 16.9.2 The Branch organized the following activities for the session 2020:

15/01/2021	Dialogue Session with CIDB, JTK, PERKESO and DOSH Perlis This dialogue session was held at CIDB Perlis with 10 IEM Committee.				
17/02/2021	Technical Visit to Cypark Large Farm, Kuala Perlis This technical visit was held at Kuala Perlis Solar Power Plant with 7 IEM Committee.				
26/02/2021	PI Talk with TNB Representative – Professional Interview Guide 8 participants attended the talk by Ir. Dr. Mohamad Shaiful Ashrul Ishak.				
19/05/2021	Discussion with the Faculty of Civil Engineering UNIMAP with IEM Kedah/ Perlis Branch This discussion was held at Faculty of Civil Engineering UNIMAP with 7 IEM Committee.				
20/05/2021	Perlis Water Sustainability Program, collaboration of IEM, SPAN and CIDB This program session was held at CIDB Perlis with 8 IEM Committee.				
26/07/2021	Briefing on Enhance Professional Interview (Outcome Based Competence Assessment) (PI) with Tenaga Nasional Berhad (TNB) Presented by speaker Ir. Dr. Mohamad Shaiful Ashrul Ishak, 160 participants attended the talk.				
29/072021	Technical Talk on Novel Nanolubricant for Air-Conditioning and Refrigeration System 80 participants attended the talk by speaker Assoc. Prof. Dr. Wan Azmi bin Wan Hamzah.				

21/09/2021	Evening Talk on Water Surge Incident in Gunung Jerai, Yan Kedah Mr. Abdullah bin Hj. Sulaiman & Dr. Ferdaus bin Ahmad presented the talk attended by 107 participants.				
14/10/2021	Talk Session on CIDB Enforcement During Covid-19 Pandemic - A Perlis Case Study Tuan Rosli bin Zainon presented the talk attended by 48 participants.				
11/11/2021	Talk Session on Preliminary Assessment of Climate Change on Irrigation in Muda Area The talk presented by Dato' Hor Tek Lip was attended by 47 participants.				
27/12/2021	Talk Session: Achieving Watertight Structures Using Mineral Additives Ir. Parnam Singh a/l Mehar Singh presented the talk attended by 37 participants.				
25/01/2022	Talk Session: BIM Parametric Modelling in Design Practice Ts. Dr. Zul-Atfi bin Ismail presented the talk attended by 53 participants.				
09/02/2022	Talk Session: Project Management and What the Client Really Needs Dato' Dr. Syed Naguib Syed Abu Bakar presented the talk attended by 119 participants.				

16.10 Terengganu Branch

- 16.10.1 Dato' Ir. Wan Nazari bin Wan Jusoh was elected as Chairman for session 2021/2022. Membership of the Branch for the session was 1,266 comprising 6 Fellows, 142 Members, 8 Senior Graduate Members, 135 Graduate Members, 3 Engineering Technologist Graduate Members, 1 Incorporated Member and 971 Student Members.
- 16.10.2 Activities organized by the Branch during the last session are listed below:

10/01/2021	Annual General Meeting Held at Hotel Permai, Kuala Terengganu.			
28/02/2021	Talk on Ketrampilan & Imej Diri Wanita Profesional by Cik Liza Imelia binti Mohammad Sulanah The Talk was attended by 46 participants.			
21/03/2021	Technical Talk on Maritime Management and Technology The Technical Talk conducted by Ir. Prof. Madya Dr. Mohd Fadhli bin Ahmad, Dr. Anuar bin Abu Bakar and Ir. Prof. Madya Dr. Ahmad Fitriadhy was attended by 24 participants.			
29/03/2021	Webinar on Don't Give Fire A Chance The webinar presented by Mr. Reuben Teoh was attended by 28 participants.			
06/04/2021	Webinar on Creating Efficiencies With Digital Twins The webinar by Mr. Richard Beck, Ms. Ruth Christie and Mr. Nick Cronin was attended by 68 participants.			
02/06/2021	Online Talk on Route to MIEM Conducted by Ir. Razmahwata Mohd Razalli was attended by 50 participants.			
16/06/2021	Online Seminar Innovation & Technology In Electrical Engineering Department (iTED 1/2021) The seminar conducted by Ir. Mohd Jailani bin Harun was attended by 26 participants.			
13/07/2021	Webinar on Geosynthetic Cementitious Composite Mats (GCCM) The webinar conducted by Mr. Darren Hughes and Mr. Michael Chong was attended by 77 participants.			

16.11 Kelantan Branch

- 16.11.1 Ir. Haji Shaipuddin bin Shapie took over as Chairman of the Branch for Session 2020/2021. The membership of the Branch is currently 1,548 members comprising 5 Fellows, 4 Senior Members, 127 Members, 4 Senior Graduate Members, 95 Graduate Members, 2 Engineering Technologist Graduate Members, 1 Engineering Technician Graduate Member and 1,310 Student Members.
- 16.11.2 The following activities were held during the 2021 session:



23/01/2021	Half Day Webinar on (1) Standard Construction Materials Testing for Forensic Application (2) Advancements in Pavement Materials to Provide Sustainable Infrastructure This webinar was attended by 33 participants.				
06/03/2021	9 th Annual General Meeting held at Kompleks Belia dan Sukan Negeri Kelantan Hall 34 members attended the AGM.				
08/03/2021	Half Day Talk to JPS Kelantan: The Principal Design Of Earth Dam Attended by 13 participants.				
04/04/2021	Half Day Outcome Base Professional Interview Training Workshop 20 participants attended the workshop.				
29/05/2021	Half Day Course on "Durability of Concrete" 42 participants attended the course.				
04/07/2021	IEM Kelantan Branch Corporate Social Responsibility (CSR) Donations of tablets to help poor students with their Online Teaching & Learning at home process. The contribution was made to two students from Maahad Ar Rahmah Kenali.				
29/07/2021	Course on: Design of Short Span Bridge Structure 92 participants attended the course.				
21/08/2021	Course on: Sustainable Asphalt Materials and Technology 73 participants attended the course.				
12/09/2021	Kursus Pra Peperiksaan Bertulis dan Mock Temuduga Calon Jurutera Profesional KKTM Pasir Mas To give exposure to 20 KKTM lecturers in the face of actual professional interviews to be professional engineers.				
20/11/2021	Course on: Anti-Bribery Management Systems ISO 37001:2016 20 participants attended the course.				
27/11/2021	Course on: Project Management Planning & Scheduling using Microsoft Project 25 participants attended the course.				
08/12/2021	Course on Delays and Extension of Time Management 39 participants attended this course.				
28/12/2021	IEM Kelantan Branch Corporate Social Responsibility (CSR) Donations of tablets to help poor students with their Online Teaching & Learning at home process. The contribution was made to two students from SMK Kota, Kota Bharu.				

16.12 **Pahang Branch**

- 16.12.1 Ir. Ahmad Kamal bin Kunji was re-elected as the Chairman for the session 2021/2022. Membership of the Branch is currently 1,538 comprising 5 Fellows, 1 Senior Member, 136 Members, 8 Senior Graduate Members, 206 Graduate Members, 2 Incorporated Members, 2 Engineering Technologist Graduate Members, 1 Affiliate Member, 2 Associate Members and 1,175 Student Members.
- 16.12.2 The following activities were held during the 2021/2022 session:

09/01/2021	Webinar on Specifying and Testing of Concrete to Eurocode for Civil Engineers, Technologists and Inspector of Works This webinar conducted by Ir. Dr. Ahmad Kamal Kunji and Ir. Dr. Chin Siew Choo was attended by 40 participants.			
30/01/2021	9th Annual General Meeting of the Branch Conducted virtually.			
27/02/2021	Webinar on Soft Soil Problems – Pre and Post Construction (Part 1) This webinar conducted by Ir. Prof. Dr. Ramli Nazir attracted 50 participants.			
06/03/2021	Webinar on Soft Soil Problems – Pre and Post Construction (Part 2) The second part of the webinar was also attended by 50 participants.			
16/03/2021	Courtesy visit to the office of YAB Menteri Besar Pahang 9 members of the Branch Committee joined this visit.			



16.13 Young Engineers Section

16.13.1 Mr. Kuugan Thangarajoo, Grad.IEM was re-elected as the Chairman of Young Engineers Section for session 2021/2022 on 26th June 2021 at the IEM YES 51st Annual General Meeting.

16.13.2 Membership

The membership of the Section now stands at 31,907 members as at 31st December 2021. The comparative figures for the last 5 years are as follows:

Grade	2016	2017	2018	2019	2020
Graduate	9,735	8,932	8,901	9,346	8,375
Student	19,650	22,748	26,053	31,240	23,532
	29,385	31,680	34,954	40,586	31,907

16.13.3 *Activities*

The 51st Annual General Meeting of the YES for session 2021/2022 was held virtually on 26th June 2021 at IEM Zoom Meeting Room at 11.30 am. A total of 76 members attended this meeting.

16.13.4 Professional Development Portfolio

During the pandemic period, all the talk being carried out via zoom webinar. Below is the list of webinar talks & virtual half-day workshop:

30/01/2021	Introduction to Autocad Virtual Course.
12/07 & 13/07/2021	2-Day Course on Project Planning & Scheduling, including MS Project Software Practice Virtual Course.
16/10/2021	The Big 5 Forum Virtual Forum.
26/11/2021	Talk on "COVID-19 Vaccine: Science, Bringing us together?, 3rd Dose" Virtual Talk.
29/11/2021	Talk on "Introduction & Path to Become Registered Electrical Energy Manager (Reem)" Virtual Talk.

16.13.5 External, Social and Community Portfolio

Normally, YES has monthly sport sessions with the student sections. However, due to Covid-19, there is no outdoor events being carried out during year 2021.

16.13.6 Publicity Portfolio

IEM YES has continued to promote and update their upcoming activities, seminar, workshop, event & etc. using social media platforms. This year, IEM YES has extended the social media channels to telegram and linkedin.

Facebook Page	IEM (HQ) – YES: https://www.facebook.com/iemyeskl/			
Instagram Page	https://www.instagram.com/iemyes/			
Telegram Page	https://t.me/joinchat/UZ3xGOyvPq3SV6mf			
Linkedin Page	https://www.linkedin.com/company/young-engineers-section-iem-yes			

IEM YES had also actively encouraged the Student Sections to submit their campus news to IEM via IEM YES email. The campus news serves as a chance to publicize the events, activities and achievements of the student sections and it will be published in the IEM bulletin.

16.13.7 Graduate and Student Affairs Portfolio

IEM YES stays connected with the student sections via different channels. During this pandemic time, IEM YES support the Student Section in the facilities of their MDP fund application, Education fund application and attending the respective student chapters virtual AGM via online platforms.



IEM YES has also organized the Outstanding IEM Student Section Award and the Outstanding YES Branch Award for the year 2021. All the winners had been announced.

Webinars in collaboration with Student Sections across Malaysia.

12/10/2021	IEM Health and Wellness Series 001: Taking Relationships to a New, Healthy Norm			
23/10/2021	IEM Health and Wellness Series 002: How to Live Your Own True Life			
06/11/2021	IEM Health and Wellness Series 003: Emotional Excellence for Engineering Students			
20/11/2021	IEM Health and Wellness Series 004: Working Together to Prevent Suicide			
18/12/2021	IEM Health and Wellness Series 005: Master Your Mindset with Neuro- Linguistic Programming (NLP)			

16.14 Women Engineers Section

Under clause 9 of Rules of the Women Engineers Section at the 68th meeting held on 30th April 2019, the WE Under clause 9 of Rules of the Women Engineers Section at the 93rd meeting held on 9th June 2021, the WE Committee has voted for Ir. Noorfaizah binti Hamzah as the Chairman and Prof. Ir. Dr. Zuhaina binti Zakaria was elected as Vice Chairman I, while Ir. Melaty Ghazali was elected as Vice Chairman II for session 2021/2022 and 2022/2023.

The section continues to play an active role in promoting and supporting women engineers.

In 2021, IEM-WE has been stepping up effort to inspire more young girls to enter STEM and has participated in many activities such as science fair, talks, workshop and carnivals in schools. The IEM WE Section has also organised personal development talks and technical talks in IEM premises. IEM WE is also actively involved in the promotion of STEM Education together with the National STEM Movement. The Section had participated in the International Women's Day 2021, Women in Zcience 2021 and Minggu Sains Negara 2021.

Outreach activities for 2021 were:

- International Women's Day, 7th March 2021
- Women in Zcience 2021 "Women in Leadership: Achieving an Equal Future in a Covid-19 world", 6th April 2021
- Minggu Sains Negara, 1st April 2021
- YHOW Experiential Conference 2021 Mental & Emotional Endurance In A Borderless World, 21st - 22nd May 2021
- Webinar Talk on "A Beginner's Guide to Urban Farming", 26th June 2021
- Webinar Talk on "Mandatory Scheduled Desludging Of Septic Tank", 21st August 2021
- UTM STEM City 2021, 2nd 10th October 2021

Ir. Noorfaizah also took over the Secretary General of WEAFEO post at CAFEO 39 held virtually from 29th November – 3rd December 2021. The WE Section also participated actively in other international and regional networking sessions such as:

- APEC Women Builders Creating Inclusive Future: Virtual Seminar. 28th 29th July 2021
- 11th Asia Pacific Nation Network Meeting (virtual), 7th 9th October 2021

The activities of this Section are tabulated and summarised in the summary of events of this Annual Report.

17 TECHNICAL DIVISIONS AND SPECIAL INTEREST GROUPS

17.1 Office Bearers

TECHNICAL DIVISION / SPECIAL INTEREST GROUP	CHAIRMAN	DEPUTY CHAIRMAN	SECRETARY/ TREASURER
Agricultural & Food Engineering Technical Division (AFETD)	Ir. Yong Hong Liang	Ir. Wan Wai Thong	Ir. Ayob bin Sukra
Building Services Technical Division (BSTD)	Ir. Cha Hoong Kum	Ir. Tan Chew	Ir. Sofia Johari



Chemical Engineering Technical Division (CETD)	Ir. Lee Teck Lii	Ir. Dr. Teow Yeit Haan	Ir. Prof. Dr. Dominic Foo Chwan Yee
Civil and Structural Engineering Technical Division (CSETD)	Ir. Low Kai Wah	Ir. Dr. Kwong Kok Zee	Ir. Lo Seng Ling
Consulting Engineers Special Interest Group (CESIG)	Ir. Yim Hon Wa	Ir. Dr. Tan Chee Fai	Ir. Ravindra Masilamoney
Electrical Engineering Technical Division (EETD)	Ir. Lee Cheng Pay	Ir. Dr. Siow Chun Lim	Ir. Kwok Yew Hoe
Electronic Engineering Technical Division (eETD)	Ir. Dr. Lee Choo Yong	Ir. Dr. Mui Kai Yin	Ir. Dr. Huzein Fahmi bin Hawari
Engineering Education Technical Division (E2TD)	Ir. Dr. Balamurugan a/l Annamalai Gurunathan	Ir. Dr. Dhakshyani Ratnadurai	Ir. Yong Hong Lee
Environmental Engineering Technical Division (ENETD)	Ir. Tang Boon Heng	Ir. Jaya Chandar a/l Poloha Nadan	Ir. Teoh Boon Lai
Geotechnical Engineering Technical Division (GETD)	Ir. Sin Peng Tean	Ir. Dr. Chan Swee Huat	Ir. Dr. Gue Chang Shin
Highway and Transportation Engineering Technical Division (HTETD)	Ir. Prof. Dr. Khoo Hooi Ling	Assoc. Prof. Ir. Edwin Goh Boon Hoe	Ir. Foo Kam Fai
Information & Communications Technology Special Interest Group (ICTSIG)	Ir. Yasser Asrul Ahmad	Ir. Amir Hussein bin Jaafar	Ir. Hor Kok Luen
Marine Engineering and Naval Architecture Technical Division (MNATD)	Ir. Ts. Abdul Malik Hussein bin Abdul Jalil	Ir. Prof. Dr. Ching Yern Chee	Ir. Teh Teoh Hai
Material Engineerin Technical Division (MaTD)	Ir. Prof. Dr. Cheong Kuan Yew	Ir. Assoc. Prof. Dr. Wong Yew Hoong	Ir. Dr. Tan Kim Seah
Mechanical Engineering Technical Division (METD)	Ir. Dr. Aidil Chee Tahir	Ir. Dr. Alvin Yap Chee Wei	Ir. Yeoh Jit Shiong
Oil, Gas and Mining Technical Division (OGMTD)	Ir. Abdul Razak bin Yakob	Ir. Lee Chang Quan	Ir. Muhamad Her bin Hj Jantan
Project Management Technical Division (PMTD)	roject Management echnical Division Ir. Dr. Nor Azhar bin Mohd Arif		Ir. Assoc. Prof. Dr. Syuhaida binti Ismail
Public Sector Engineers Special Interest Group (PSESIG)	Ir. Boey Wei Lun, Francis	Ir. Shahidan bin Sadiman	Assoc. Prof. Ir. Dr. Nik Rosli bin Abdullah
Safety in Engineering Special Interest Group (SESIG)	Ir. Tajul Ariffin Mohamed Nori	Ir. Francis Ngiam Kee Hwee	Ir. Dr. Mohd Fairuz Ab Rahman
Seniors Special Interest Group (SSIG)	Ir. Lalchand a/l Gulabrai	Ir. Chow Sei Ying, Raymond	Ir. Yvonne Fernandez
Tunneling and Underground Space Technical Division (TUSTD)	Ir. Dr. Ooi Teik Aun	Ir. Ong Sang Who	Ir. Frankie Cheah Peng Leong



Urban Engineering Development Special Interest Group (UEDSIG)	Ir. Azhar bin Azmi	Ir. Benny Lau Eng Kee	Ir. Mike Lau Yee Leong
Water Resources Technical Division (WRTD)	Ir. C. Kamalesen a/l Chandrasekaran	Dato' Kapt. (B) Ir. Hj. Anuar bin Hj. Yahya	Ir. Low Sheue Lih, Shirley
Women Engineers Section (WES)	Ir. Noorfaizah binti Hamzah	Vice Chairman 1 - Prof. Ir. Dr. Zuhaina binti Zakaria Vice Chairman 2 - Ir. Melaty binti Ghazali	Hon. Secretary - Assoc. Prof. Ir. Dr. Zahiraniza binti Mustaffa Hon. Treasurer - Ir. Sumathi a/p Subramaniam
Young Engineers Section (YES)	Mr. Kuugan a/l Thangarajoo	Vice Chairman 1 - Mr. Lim Yiren Vice Chairman 2 - Mr. Muhammad Ashiq Marecan	Mr. Naveen Kumar a/l Apprao

17.2 Membership of the Technical Divisions/Special Interest Groups

TD/SIG	2021	TD/SIG	2021
AFETD	251	METD	2,799
BSTD	1581	MNATD	349
CESIG	945	OGMTD	1,479
CETD	597	PMTD	2,826
CSETD	4,326	PSESIG	144
E2TD	1,094	SESIG	46
EETD	2,626	SSIG	59
eETD	893	TUSTD	411
ENETD	1,199	UEDSIG	181
GETD	1,420	WE	12,170
HTETD	1,325	WRTD	1,510
ICTSIG	344	YES	33,432
MaTD	97		

17.3 Activities Organised

17.3.1 Technical Talks and Visits

TD/SIG	TALKS	TECHNICAL VISIT	TD/SIG	TALKS	TECHNICAL VISIT
AFETD	8	0	METD	7	0
BSTD	9	0	MNATD	11	1
CESIG	15	0	OGMTD	17	1
CETD	9	0	PMTD	16	1
CSETD	17	0	PSESIG	4	0
E2TD	7	0	SESIG	3	0
EETD	34	0	SSIG	7	0
eETD	12	1	TUSTD	4	0
ENETD	10	0	UEDSIG	7	0
GETD	13	0	WE	2	0
HTETD	16	0	WRTD	6	0
ICTSIG	11	0	YES	7	0
MaTD	7	0			



17.4 Courses/Seminars/Workshops

TD/SIG	WORKSHOP	COURSE	SEMINAR
AFETD	2	0	0
BSTD	5	0	0
CESIG	2	0	0
CETD	3	0	2
CSETD	2	0	0
E2TD	0	0	0
EETD	8	1	0
eETD	1	0	0
ENETD	0	0	0
GETD	7	0	0
HTETD	3	0	0
ICTSIG	0	0	0
MaTD	0	0	0
METD	1	0	0
MNATD	0	0	1
OGMTD	3	0	1
PMTD	11	0	0
PSESIG	1	0	0
SESIG	0	0	0
SSIG	0	0	0
TUSTD	5	0	0
UEDSIG	1	0	0
WE	0	0	1
WRTD	1	0	0
YES	2	1	0





IEM SUMMARY ACTIVITIES 2021 TALKS, VISITS, PAID ACTIVITIES, DIGITAL CLASSES, COMPETITION ETC. (1st JANUARY 2021 - 31st DECEMBER 2021)



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
1	9 Jan 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Managing Safety in Oil & Gas Industry: Are rules and procedures adequate?	Ir. Lee Chang Quan	85
2	12-13 Jan 2021 9.00am - 1.30pm	GETD	Virtual Half-Day Webinar	Geotechnical Experience in 1st Klang Valley MRT Project	Various Speakers	59
3	14 Jan 2021 2.00pm - 4.00pm	GETD	Webinar Talk	Bored Piling Using Rotary Kelly Drilling KLCC Lot L&M, A New World Record in Bored Piling Has Probably Been Set Again in Malaysia	Mr. Thomas Domanski	179
4	14 Jan 2021 5.00pm - 7.00pm	OGMTD	Webinar Talk	Blast Resistant Glass	Ir. Dr. Mohammed Alias Yusof	70
5	16 Jan 2021 11.00am - 1.00pm	PMTD	Webinar Talk	Managing Sustainable Procurement	Ir. Noor Iziddin Abdullah bin Hj. Ghazali	110
6	20 Jan 2021 5.45pm-6.45pm	WELFARE + SSIG	Webinar Talk	Depression In The Elderly: Symptoms, Causes and Treatment	Dr. Gayathri K. Kumarasuriar	65
7	21 Jan 2021 3.00pm - 5.00pm	ENETD	Webinar Talk	Grid Connected Solar PV (GCPV) System	Ir. Tan Seng Khee	155
8	21 Jan 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Industry4WRD: Building Industry 4.0 Capacity	Ir. Dr. Tan Chee Fai	56
9	22 Jan 2021 3.00pm - 5.00pm	CSETD	Webinar Talk	Design & Construction of Four Seasons Place Kuala Lumpur	Ir. Lim Boon Tiong	249
10	23 Jan 2021 9.00am to 1.00pm	CESIG	Virtual Workshop	Introduction To Electrical Design in Building Services - Part 1	Ir. Mohd Taufik bin Mohammed Rathi	130
11	23 Jan 2021 9.30am - 10.30am	CETD	Webinar Talk	Managing differences between Process Safety & Occupational Safety	Mr. Mohd Azmir Abd. Rahim	86
12	23 Jan 2021 10.45am - 11.45am	CETD	Webinar Talk	Feasibility Study & Technology Selection	Mr. Mohamed Anas Mohamed Shaharuddin	86
13	23 Jan 2021 1.00pm - 2.00pm	CETD	Webinar Talk	Risk & Opportunities for Industries in Addressing the Effects of Climate Change	Ir. Thayananthan Balakrishnan	86
14	23 Jan 2021 2.15pm - 3.15pm	CETD	Webinar Talk	Process Engineering Design Overview	Ir. Mohamad Anwar Ahmad	86
15	26 Jan 2021 3.00pm - 5.00pm	E2TD	Webinar Talk	BIM as Project Management Tool: Clash Detection	Ir. Dr. Salmaliza Salleh	106
16	29 Jan 2021 3.00pm - 5.00pm	E2TD	Webinar Talk	Statistical Process Control for Transparent Industry	Ir. Dr. Shamini Janasekaran	56
17	30 Jan 2021 9.00am - 5.00pm	YES	Virtual Workshop	Introduction to Autoad	En. Mohamad Nazmi bin Ismail	122
18	30 Jan 2021 9.00am 1 1.00pm	CESIG	Virtual Workshop	Introduction To Electrical Design in Building Services - Part 2	Ir. Mohd Taufik bin Mohammed Rathi	110
19	3 Feb 2021 3.00pm - 5.00pm	ENETD	Webinar Talk	Carbon Footprint Practices in Organisation	Various Speakers	135
20	4 Feb 2021 3.00pm - 5.00pm	GETD	Webinar Talk	Diaphragm Wall and Secant Bored Pile Wall Construction Challenges for Underground Stations and Shafts in 1st Klang Valley MRT	Mr. Vijaykumar Viramuthu	231
21	6 Feb 2021 9.00am - 11.00am	METD	Webinar Talk	Evolution of Aircraft Engines - The Marvel of Engineering for Mankind	Mr. Ricky Liew	52
22	9 Feb 2021 9.00am - 12.00pm	METD	Virtual	Dialogue with DOSH on Privatisation of Certified Machinery Inspection	Various Panellist	34
23	17 Feb 2021 3.00pm - 5.00pm	MNATD	Webinar Talk	Inland Waterways Management in relation to Inland Water Transportation Activities	Ir. Prof. Dr. Ab. Saman bin Kader	87
24	18 Feb 2021 9.00am - 5.00pm	PMTD	Virtual Course	Project Schedule Management	Ir. Faizal A. Sanusi	35
25	18 Feb 2021 5.30pm to 7.30pm	ICTSIG	Webinar Talk	How To Survive In An Economic Downturn In Business With Open-source Business Solution - 2nd Session	Mr. L.C. Chen	22
26	20 Feb 2021 9.00am - 11.00am	OGMTD	Webinar Talk	CRA Mechanical Lined Pipe for HPHT Pipeline Application	l Wayan Eka Putra & Farahiah Rosli	83
27	23 Feb 2021 9.00am - 1.30pm	GETD	Virtual Half-Day Webinar	Ground Improvement	Various Speakers	82
28	24 Feb 2021 3.00pm - 5.00pm	PSESIG	Webinar Talk	Government Procurement & Projects Implementation - In Pandemic Context	First Admiral Dato' Ir. Hj. Ahmad Murad bin Omar	78
29	25-26 Feb 2021 9.00am - 5.30pm	OGMTD	Virtual 2-Day Course	Understanding Process Control for Oil & Gas Production Operators, Technicians and Engineers	Assoc. Prof. Dr. Syamsul Rizal Abd. Shukor, Ir. Prof. Dr. Zainal Ahmad & Dr. John Eow	12
30	27 Feb 2021 11.00am - 1.00pm	UEDSIG	Webinar Talk	Five ways to improve operation and increase profit in Covid-19 Pandemic environment	Ir. Dr Wang Hong Kok	143



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
31	3 Mar 2021 10.00am - 12.00pm	HTETD	Webinar Talk	Weight Restriction Order, Commercial Vehicles and Road Safety	Dato' Ir. Foong Chay Chye	96
32	3 Mar 2021 5.30pm - 7.30pm	EETD	Webinar Talk	Towards Specialization Needs of Railway Systems: Series #3 Introductory Knowledge of AC and DC Railway Systems in Malaysia - Rail Return Current Circuits and Earthing	Ir. Dr. Amir Basha Ismail & Mr. Muhammad Syazwn	88
33	4 Mar 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Industry4WRD: Digital Transformation for Professional Services	Ir. Dr. Tan Chee Fai	49
34	5 Mar 2021 3.00pm - 5.00pm	PMTD	Webinar Talk	Asset Management	Assoc. Prof. Dr. Abd Rahman bin Rahim	120
35	5 Mar 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Industry4WRD: Embrace Digital Economy – The Alibaba Model	Ir. Dr. Tan Chee Fai	46
36	6 Mar 2021 11.00am - 1.00pm	AFETD	Webinar Talk	Awareness of Simple Risk Assessment and Control for Chemicals (SiRAC) for The Agricultural & Food IndustrySector and Occupational Safety and Health (OSH) Practitioners	Ts. Hazlina binti Yon	55
37	6 Mar 2021 2.00pm - 4.00pm	UEDSIG + CSETD	Webinar Talk	Creating a Friendly, Amiable, and Productive Environment in the Construction Industry : Evidence from Primary Research	Ir. Dr. Jeffrey Yap Boon Jui	75
38	9 Mar 2021 3.00pm - 5.00pm	MNATD	Webinar Talk	Sensor and Instrumentation for Ocean Applications	Ir. Prof. Dr. Mohd Rizal bin Arshad	52
39	10 Mar 2021 3.00pm - 5.00pm	ENETD	Webinar Talk	Role of Sustainable Urban Drainage System in Adapting to Climate Change	Prof. Dr. Chan Ngai Weng	108
40	11 Mar 2021 4.00pm - 6.00pm	SSIG + WELFARE	Webinar Talk	Calming Anxiety during Crisis using Neuro-Linguistic Programming (NLP) and Time Line Therapy™ (TLT)	Ir. Ang Pey Char	30
41	12 Mar 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Industry4WRD: Platform and Digital Infrastructure	Ir. Dr. Tan Chee Fai	42
42	13 Mar 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Minimise Industrial Thermal and Electrical Energy, Waste, Resources and Cost using Pinch Analysis	Ir. Assoc. Prof. Dr. Sharifah Rafidah Wan Alwi	98
43	13 Mar 2021 9.00am - 11.00am	ICTSIG	Annual General Meeting	23 rd Information & Communications Technology Special Interest Group, IEM (ICTSIG) Virtual Annual General Meeting	NIL	48
44	16 Mar 2021 10.00am - 12.00pm	EETD	Webinar Talk	Engagement Session with TNB on Connection Charges	Various Speakers	97
45	17 Mar 2021 2.30pm - 4.30pm	UEDSIG	Webinar Talk	Practical Pre-Contract Disputes Avoidance	Ir. Ang Kok Keng	139
46	18 Mar 2021 9.00am - 1.00pm	EETD	Virtual Half-Day Course	Power Factor Capacitor and Reactor Bank	Mr. Ritesh Lutchman	80
47	18 Mar 2021 3.00pm - 5.00pm	PMTD	Webinar Talk	Genderism in Project Management Leadership and Engineering Practices: Palestinian Experience	Dr. Safa Nassereldin	50
48	18 Mar 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Industry4WRD: e-Economy of South East Asia	Ir. Dr. Tan Chee Fai	38
49	18 Mar 2021 5.30pm to 7.30pm	ICTSIG	Webinar Talk	How To Survive In An Economic Downturn In Business With Open-source Business Solution - 2nd Session	Mr. L.C. Chen	19
50	20 Mar 2021 9.00am - 5.00pm	PMTD	Webinar Talk	Life Cycle Cost of Green Project	Ir. Noor Iziddin Abdullah bin Hj. Ghazali	20
51	23 Mar 2021 11.00am - 1.00pm	E2TD	Webinar Talk	Accident Investigation & Report Writing	Ir. Dr. Amar Singh	81
52	23 Mar 2021 3.00pm - 4.00pm	METD	Webinar Talk	IR4.0 Industrial Solution for Hydraulic System Maintenance	Mr. Nor Azilan bin Jaafar	29
53	24 Mar 2021 2.00pm - 5.30pm	BSTD	Virtual Half-Day Course	Healthcare/Hospital Related Air Conditioning Design and Analysis	Ir. Pua Ching Tian	89
54	26 Mar 2021 9.30am - 11.30am	HTETD	Webinar Talk	Smart City and Smart Mobility: Concept, Analytics, and Practical Deployment in Thailand	Prof. Agachai Sumalee	68
55	27 Mar 2021 11.30am - 1.30pm	CSETD	Webinar Talk	Lessons Learnt – MRR2 Viaduct, Kuala Lumpur	Y.Bhg. Dato' Ir. Dr. Ismail bin Mohamed Taib	198
56	30 Mar 2021 10.00am - 12.00pm	WELFARE + SSIG	Webinar Talk	Wealth Management and Retirement	Mr. Yap Ming Hui	32
57	30 Mar 2021 3.00pm - 5.00pm	PSESIG	Webinar Talk	Innovations For A Decentralised, Renewable-Powered System: Peer-To-Peer Electricity Trading	En. Ibrahim Ariffin	70
58	31 Mar 2021 9.00am - 1.30pm	BSTD	Virtual Half-Day Seminar	Design and Operation Considerations on ACMV System in Mitigating Covid-19 Transmission	Ir. Haji Arul Hisham bin Abdul Rahim	70
59	31 Mar 2021 5.30pm - 7.30pm	E2TD	Webinar Talk	The Role of Sustainable Materials For Energy Efficient Building	Dr. Salmia Beddu	68
60	1-2 Apr 2021 9.00am - 1.00pm	EETD	Virtual Half-Day Seminar	Risk Analysis and Lightning Protection System (LPS) Based on MS IEC 62305	Mr. Ritesh Lutchman	44
61	2 Apr 2021 3.00pm - 5.00pm	PMTD	Webinar Talk	Future Trends in Project Management	Assoc. Prof. Dr. Abd. Rahman bin Rahim	70



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
62	3 Apr 2021 11.30am - 1.30pm	AFETD	Webinar Talk	Biomass Thermochemical Conversions – Challenges and Opportunities	Dr. Suchithra Thangalazhy Gopakumar	54
63	3 Apr 2021 2.30pm - 4.30pm	HTETD	Webinar Talk	Introducing 'Geobamtile', A Well-TriedTechnique of Malaysia Origin for Deep Softground Treatment	Ir. Dr. Low Kaw Sai	132
64	6 Apr 2021 3.00pm - 5.00pm	AFETD	Webinar Talk	Smart and Precision Agriculture in Malaysia	Dr. Ahmad Safuan Bujang	50
65	7 Apr 2021 5.00pm to 7.00pm	GETD	Webinar Talk	Adaptive Updating of Soil Properties Through Monitoring Data for Improved Prediction of Excavation Response	Dr. Andy Leung	119
66	8 Apr 2021 3.00pm - 5.00pm	ENETD	Webinar Talk	Water and Environmental Sustainability: The needs for Collaboration among Engineers, Scientists and Communities	Dr. Rahmah Elfithri	63
67	9 Apr 2021 11.00am -1.00pm	CSETD	Webinar Talk	Adopting Modular As An Alternative Method of Construction	Dr. Chua Yie Sue & Mr. Andrew Lian	126
68	10 Apr 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Sharing of Experience Delivering a Plug and Abandonment Project During Pandemic	Ir. Razak Yakob	56
69	12 Apr 2021 1.30pm - 3.30pm	CETD	Webinar Talk	Moving Towards An Effective Carbon Management Programme - A Chemical Industrial Perspective	Ir. Thayananthan Balakrishnan	41
70	14 Apr 2021 2.00pm - 3.00pm	PPC	Webinar Talk	Do You Want to be an Arbitrator?	Ir. Leon Weng Seng	73
71	15 Apr 2021 10.30am - 11.30 am	PPC	Webinar Talk	Introduction to Commercial Arbitration in Malaysia	Mr. Andrew S. Khalish & Mr. Kevin Prakash	35
72	20 Apr 2021 5.30pm - 7.30pm	UEDSIG	Webinar Talk	Documentation In Anticipation Of CIPAA	Ir. Ang Kok Keng	129
73	22 Apr 2021 3.00pm - 5.00pm	CSETD	Webinar Talk	Modular Concrete Buildings : A European Experience	Mr Richard Morsink	156
74	23 Apr 2021 11.00am - 1.00pm	TUSTD	Webinar Talk - Pre AGM Talk	Practical Regulatory Framework for Underground Projects in Singapore Illustrated With Case Histories	Er. David Ng Chew Chiat	79
75	23 Apr 2021 9.00am - 11.00am	TUSTD	Annual General Meeting	21st Tunnelling and Underground Space Technical Division Virtual Annual General Meeting (AGM)	NIL	65
76	24 Apr 2021 9.00am - 5.30pm	CSETD	Virtual 1-Day Seminar	Online Tools for Earthquake Resistant Design of RC Buildings Based on the EC8 Malaysia NA	Prof. Dr. Nelson Lam, Dr. Hing-Ho Tsang, Ir. EP. Lim, Dr. Daniel Looi, Mr. Prashidha Khatiwada & Mr. Chan Rong Xiang	108
77	24 Apr 2021 9.30am - 11.30am	BSTD	Webinar Talk	MS 1910 : 2006 Fixed Firefighting Systems - Automatic Sprinkler System	Ir. Gary Lim Eng Hwa	44
78	28 Mar 2021 9.00am - 1.30pm	BSTD	Virtual Half-Day Seminar	Leveraging the Advancement of VRV/VRF Technology in Modern HVAC Design	Ir. Ng Xu Li, Ir. Daniel Lim Kim Chuan & Ms. Lee Jia Yi	73
79	28 Apr 2021 2.30pm - 4.30pm	CSETD & GETD	Webinar Talk	Seismic Hazard and Risk Assessment from the Geological Perspective	Dr. Frederick Francis Tating	99
80	30 Apr 2021 2.30pm - 4.30pm	CSETD & GETD	Webinar Talk	Geological Assessment of the Earthquake Sources and Hazard in Malaysia	Mr. Bailon Golutin	142
81	4 May 2021 9.00am - 1.00pm	EETD	Virtual Half-Day Seminar	Automatic Transfer Switch based on MS IEC 69047-6-1	Mr. Ritesh Lutchman	26
82	4 May 2021 2.00pm - 4.00pm	MNATD	Webinar Talk	How to Get Yourself Employed	Ir. Prof. Ab. Saman bin Abd Kader	15
83	8 May 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Introduction To HAZOP	Ir. Razmahwata Razalli	75
84	8 May 2021 11.30am - 1.30pm	AFETD	Webinar Talk	The holistic treatment approach of raw water and boiler water in the agricultural based industries particularly in the rural area	Mr. Yan Long Yeow	65
85	8 May 2021 2.00pm - 4.00pm	UEDSIG	Webinar Talk	Digitalization For The Future Of The Construction Industry	Ir. Tan Loo Toon	123
86	8 May 2021 9.00am - 11.00am	EETD	Annual General Meeting	36 th Electrical Engineering Technical Division Virtual Annual General Meeting (AGM)	NIL	71
87	19 May 2021 5.00pm - 7.00pm	HTETD	Webinar Talk	Road Safety "Street For Life"	Ms. Syarifah Allyana, Dr. Teik-Hua, Low & Ir. Richard Wong	88
88	22 May 2021 11.00am - 1.00pm	PMTD	Webinar Talk	Confined Space Risk Assessment (CSRA) for Construction Projects, Utility Plants & Manufacturing Factories	Ir. Chia Chee Weng, Derick	79
89	25 May 2021 3.00pm - 5.00pm	MNATD	Webinar Talk	Introduction to Simulations - Fundamentals and Applications	Ir. Abd Malik Hussein	38
90	25 May 2021 5.00pm - 7.00pm	BSTD	Webinar Talk	Eliminate Aedes Mosquito Breeding Ground in Your Home	Ir. Gary Lim Eng Hwa	34
91	25 May 2021 11.00am - 1.00pm	E2TD & CSETD	Webinar Talk	10 Important Innovations in Cement & Concrete for Construction and Engineering Applications	Ir. Dr. Kamarul Arnuar Mohamad Kamar	166



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
92	27 May 2021 3.00pm - 5.00pm	ENETD	Webinar Talk	Hazardous Materials Management	Ir. Dr. Salmaliza binti Salleh	85
93	28 May 2021 3.00pm - 5.00pm	AFETD	Webinar Talk	Engineering Process to Treat Solid Biomass Waste from Palm Oil Mill	Ir. Hor Kok Luen	72
94	29 May 2021 9.00am - 11.00am	AFETD	Webinar Talk	Engineering Process to Treat Agricultural Waste Water	Ir. Hor Kok Luen & Mr. Yan Long Yeow	50
95	29 May 2021 11.30am - 1.30pm	EETD	Webinar Talk	5G Technology : Challenges & Opportunities	Mr. Mohan Albert	104
96	29 May 2021 2.00pm - 5.30pm	UEDSIG	Virtual Half-Day Seminar	Technical Event on Hillslopes & Highlands Development - Approaches + Challenges Incorporating Technological Advancement in Environmentally Challenging Areas	Ir. Dr. Valen Tew Kia Hui	49
97	2 Jun 2021 3.00pm - 5.00pm	MNATD	Webinar Talk	Methodology and Approach for Vibration Analysis On Rotating Machinery (Royal Malaysian Navy versus Industry)	Lt. Cdr. Ir. Mohd Shafiq Sharhan bin Zainal	54
98	3 Jun 2021 2.00pm - 4.00pm	SSIG	Webinar Talk	Covid-19 Vaccination: Benefits and Concerns	Dr. Hakimah Binti Mohammad Sallehuddin & Dr. Kejal Hasmukharay	102
99	5 Jun 2021 9.00am - 1.00pm	HTETD	Virtual Half-Day Seminar	Good Practices for Construction of New Asphalt Pavement and Maintenance	Ir. Pok Sum Loong	54
100	5 Jun 2021 9.00am - 1.00pm	WRTD	Webinar Half-Day Course	Application Of QGIS (Gis Freeware) For Civil Engineering & Water Resources Master planning & Design	Ir. Choek Hou Seng	40
101	5 Jun 2021 11.00am - 1.00pm	ENETD	Webinar Talk - Pre AGM Talk	Social Impact Assessment for Linear Infrastructure Projects	Mr. Lee Hwok Lok	81
102	8 Jun 2021 9.00am - 11.00am	OGMTD	Webinar Talk	The IECEx 05 Scheme – Certificate of Personnel Competence for Potentially Explosive Atmospheres	Mr. David P. Malohn	46
103	9 Jun 2021 3.00pm - 5.00pm	CSETD	Webinar Talk	Validating the Structural Behavior and Response of Burj Khalifa: The Creation of Real Time Full Scale Structural Health Monitoring Programs: A Real Time Structural Digital Twin	Mr. Ahmad Albelrazaq'	173
104	10 Jun 2021 10.00am - 12.00pm	GETD	Webinar Talk - Pre AGM Talk	Slope Design & Construction Practice	Ir. Neoh Cheng Aik	180
105	10 Jun 2021 3.00pm - 5.00pm	PSESIG	Webinar Talk	Quality in Career Development	Assoc. Prof. Ir. Ts. Nik Rosli Abdullah	27
106	12 Jun 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Building Organisational Resilience via a Sustainable Energy Management Program	Prof. Ts. Ir. Dr. Zainuddin Abdul Manan	66
107	12 Jun 2021 2.30pm - 4.30pm	UEDSIG	Webinar Talk	Poor Sales and Weak Demand : Overcoming challenges in COVID-19 Pandemic	Dato Ho Hon Sang (Mah Sing), Ir. Yau Chau Fong & Ir. Dr. Wang Hong Kok	89
108	12 Jun 2021 9.00am - 11.00am	GETD	Annual General Meeting	32 nd Geotechnical Engineering Technical Division Virtual Annual General Meeting (AGM)	NIL	83
109	16 Jun 2021 5.30pm to 7.30pm	EETD	Webinar Talk	The Impact of Disruptive Technologies on Malaysia's Future Energy Scenario	Ir. Dr. Amir Basha Ismail & Mr. Muhammad Syazwn	80
110	19 Jun 2021 11.00am - 1.00pm	MNATD	Webinar Talk - Pre AGM Talk	Maximising Indigenous Product (IndP) in Ship Building and Ship Repair (SBSR) Industry: Opportunity, Challenges and Way-Forward	Rear Admiral Datuk Ir. Ts. Mohd Shaiful Adli Chung	172
111	19 Jun 2021 9.00am - 5.30pm	OGMTD	Virtual 1-Day Course	Conducting HAZOP Study for Engineers, Scientists & Managers	Ir. Dr. John Eow	38
112	22 Jun 2021 10.00am - 2.00pm	EETD	Virtual Half-Day Seminar	Selection, Protection & Maintenance of Transformers as per IEC 60076	Various Speakers	62
113	22 Jun 2021 5.00pm - 7.00pm	SSIG	Webinar Talk	Men's Health Not Too Kind to Men	Dr. George Lee Eng Geap	65
114	26 Jun 2021 9.00am - 11.00am	PMTD	Webinar Talk	Project Management in Telecommunication	Ir. Norhasita binti Mohd Yusof	58
115	26 Jun 2021 9.00am - 5.00pm	PMTD	Virtual 1-Day Course	Lifecycle Cost of Energy Efficiency-Green Project	Ir. Noor Iziddin Abdullah bin Hj Ghazali	38
116	26 Jun 2021 11.30am -12.30pm	WE	Webinar Talk	A Beginner's Guide to Urban Farming	Prof. Dr. Titik Khawa	39
117	26 Jun 2021 11.30am - 1.00pm	YES	Annual General Meeting	51st Graduate and Student Section Virtual Annual General Meeting (AGM)	NIL	59
118	26 Jun 2021 9.00am - 11.00am	WRTD	Annual General Meeting	34th Water Resources Technical Division Virtual Annual General Meeting (AGM)	NIL	100
119	28 Jun 2021 3.00pm - 5.00pm	MNATD	Webinar Talk	Ship Resistance and Powering	Prof. Dr. Adi Maimun	40
120	30 Jun 2021 3.00pm - 5.00pm	PSESIG	Webinar Talk	Advantages of BIM in Building Projects	Ir. Mohd Faiz bin Shapiai	135
121	1 Jul 2021 10.00am - 12.00pm	E2TD	Webinar Talk	Turbocharger Optimization via Evolutionary Algorithm	Dr. Uswah Khairuddin	38



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
122	3 Jul 2021 9.00am - 11.00am	ICTSIG	Webinar Talk	Appreciating Calligraphy: Art and Science of Writing — An Introduction (1st Session)	Ir. Peter Kwok	12
123	3 Jul 2021 9.00am - 11.00am	SSIG	Annual General Meeting	7 th Seniors Special Interest Group Annual General Meeting (AGM)	NIL	97
124	6 Jul 2021 5.00pm - 7.00pm	HTETD	Webinar Talk	Trackwork Design on a Mass Rapid Transit Project	Ir. Reuben Lamack	164
125	7 Jul 2021 2.00pm - 6.00pm	EETD	Webinar Talk	Recovery, New Reality and Resilience of Semiconductor Manufacturing Fab	Various Speakers	135
126	8 Jul 2021 2.00pm - 6.00pm	EETD	Webinar Talk	The 3Es of Finance Essential in Digital Economy	Various Speakers	70
127	9 Jul 2021 3.00pm - 5.00pm	CSETD	Webinar Talk	A Practical Engineering Guide on Adjustable Fixing Solution	Mr Stefan Lammert	86
128	10 Jul 2021 9.00am - 11.00am	CSETD	Virtual AGM	35th Annual General Meeting of Civil and Structural Engineering Technical Division (CSETD)	NIL	169
129	10 Jul 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Monitoring Method for Ground Vibration and Air Blast Produced From Blasting	Ir. Juna Azleenbin Abdul Ghani	90
130	10 Jul 2021 11.30am - 1.30pm	MNATD	Webinar Talk	Introduction to Passive Acoustic Monitoring (PAM) Technology	Ir. Ts. Prof. Dr. Mohd Rizal bin Arshad	34
131	10 Jul 2021 2.00pm - 4.00pm	EETD	Webinar Talk	Introduction to IEC60364-8-1 Energy Efficiency in Low Voltage Electrical Installations	Dr. Chua Kein Huat	134
132	12 Jul 2021 3.00pm - 5.00pm	CSETD	Webinar Talk	The Structural Engineering Design and Construction of the Tallest Building in Europe Lakta Center, St. Petersburg, Russia	Mr. Ahmad Albelrazaq'	293
133	12-13 Jul 2021 9.00am - 5.00pm	YES + PMTD	Virtual 2-Day Course	Project Planning & Scheduling, including MS Project Software Practice	Ir. Frankie Chong	42
134	13 Jul 2021 9.00am - 1.00pm	EETD	Virtual Half-Day Seminar	Smartgen Generators and ATS Controller and Cloud Monitoring Systems	Mr. Ritesh Lutchman	38
135	14 Jul 2021 5.30pm - 7.30pm	WRTD	Webinar Talk	ntegrated Urban Water Management Towards Sustainable Cities	Ir. C. Kamalesen Chandrasekaran	105
136	14-15 Jul 2021 1.00pm - 5.00pm	CETD	Virtual 2 Half-Day Course	Maximise Energy Efficiency with Cogeneration	Dr. Kamarul Ariffin Amminudin & Ir. Prof. Dr. Dominic Foo	20
137	16 Jul 2021 3.00pm - 5.00pm	TUSTD	Webinar Talk	Challenges and Performance of A Thirty-Seven-Metre- Deep Underground Basement Construction In Kuala Lumpur Downtown	Ir. Muhammad Hafiz bin Jalaluddin	208
138	17 Jul 2021 11.00am - 1.00pm	PMTD	Webinar Talk	Practical Scheduling with Microsoft Project	Ir. Faizal A. Sanusi	160
139	17 Jul 2021 9.00am - 11.00am	CESIG	Annual General Meeting	12 th Consulting Engineers, Special Interest Group Virtual Annual General Meeting (AGM)	NIL	146
140	17 Jul 2021 9.00am to 11.00am	HTETD	Webinar Talk	Pedestrian Simulation for Multiple Development Types	Nick Fellows	70
141	17 Jul 2021 9.00am - 11.00am	ICTSIG	Webinar Talk	Appreciating Calligraphy: Art and Science of Writing — An Introduction (2nd Session)	Ir. Peter Kwok	15
142	21 Jul 2021 2.30pm - 4.30pm	HTETD	Webinar Talk	Moving towards an Electric Mobility Future: An Integrated Urban - Transport Planning and Implementation Perspective	Dr. Ong Ghim Ping Raymond	81
143	24 Jul 2021 9.00am - 11.00am	eETD	Annual General Meeting	13th Electronic Engineering Technical Division Virtual Annual General Meeting (AGM)	NIL	40
144	26 Jul 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Industry4WRD : Manufacturing Execution Systems: Introduction and Applications	Mr. Vincent Oh Kok Loon & Mr. Alex Eng Chee San	29
145	27 Jul 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Introduction to UL's globally recognized Underground Tank Standards – UL 58, UL 1746, UL 1316, and UL 1856	Mr. Roland Riegel & Mr. Brian Orr	62
146	27 Jul 2021 9.00am-11.00am	OGMTD	Webinar Talk	Introduction to UL's globally recognized Underground Tank Standards – UL 58, UL 1746, UL 1316, and UL 1856	Mr. Roland Riegel & Mr. Brian Orr	62
147	27 Jul 2021 10.00am - 12.30pm	CESIG	Webinar Talk	Industry4WRD: Artificial Intelligence Innovations	Prof. Hsin-Yuan Chen	30
148	28 Jul 2021 5.30pm to 6.00pm	WRTD	Webinar Talk	Water Quality Monitoring and Analysis: Getting It Right	Ir. Dr. Zaki Zainuddin	116
149	28 Jul 2021 5.00pm - 7.00pm	BSTD	Webinar Talk	Eliminate Aedes Mosquito Breeding Ground in Built Environment	Ir. Gary Lim Eng Hwa	152
150	28 Jul 2021 9.00am - 1.00pm	CETD	Virtual Half-Day Course	Fluid Flow and Hydraulics of Pipes, Fittings, Orifices, Control Valves	Mr. Wiroon Tanthapanichakoon	43
151	29 Jul 2021 3.00pm - 5.00pm	CSETD & GETD	Webinar Talk	Fundamentals of Geosynthetics Engineering	Ir. Dr. Loke Kean Hooi	182
152	31 Jul 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Introduction to Python - Part 1	Ir. Gary Chien Fan Chee	35



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
153	31 Jul 2021 9.00am - 11.00am	TUSTD	Webinar Talk	Tunneling In Japan Under Challenging Geological Conditions	Mr. Kensuke Date & Dr. Yasuhiro Yokota	154
154	3 Aug 2021 9.00am - 5.00pm	PSESIG	Virtual 1-Day Seminar	Understanding the Basic ISO 9001:2015 for Engineers	Assoc. Prof. Ir. Ts. Dr. Nik Rosli Abdullah	14
155	6 Aug 2021 10.00am - 12.00pm	UEDSIG	Webinar Talk	Re-Introducing New Towns To Meet Housing Needs: A Definitive Panacea For M40	Ir. Dr. Wang Hong Kok	86
156	7 Aug 2021 9.00am - 11.00am	BSTD	Virtual Platform	35th Annual General Meeting of Building Services Technical Division (BSTD)	NIL	171
157	7 Aug 2021 2.00pm - 4.00pm	METD	Webinar Talk	The Art of Flowcharting for Engineering and Business Process	Dr. Ravinthran Mariappan	101
158	7 Aug 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Intorduction to HTML/CSS/JS for Engineers - Part 1	Ir. Chai Chen Sing	38
159	9 Aug 2021 5.30pm - 7.30pm	SESIG	Protem General Meeting	1st Protem General Meeting of The Safety In Engineering Special Interest Group (SESIG)	NIL	30
160	10 Aug 2021 9.00am - 11.00am	EETD	Webinar Talk	New Methodologies for Analyzing Transformer DGA results	Mr. Randy Coxx	60
161	11 Aug 2021 3.00pm - 5.00pm	METD	Webinar Talk	Flying Non-Stop Around The World: A Global Outreach	Ir. Assoc. Prof. Ts. Dr. Parvathy Rajendran	52
162	14 Aug 2021 2.00pm - 4.00pm	HTETD	Webinar Talk	The Future of Transport	Mr. Roger Cruickshank	106
163	14 Aug 2021 11.00am - 1.00pm	E2TD	Virtual Platform	25 th Annual General Meeting of Engineering Education Technical Division (E2TD)	NIL	122
164	14 Aug 2021 11.30am - 1.30pm	PMTD	Virtual Talk - Pre AGM Talk	Successful Project Scheduling: Common Mistakes	Ir. Wan Ibrahim bin Wan Yusoff	143
165	17-18 Aug 2021 1.30pm - 5.30pm	CETD	Virtual 2 Half-Day Course	Palm Biomass Management and Optimisation	Ir. Hor Kok Luen & Ir. Prof. Dr. Dominic Foo	12
166	18 Aug 2021 10.00am - 12.00pm	HTETD	Webinar Talk	CIPR Fundamentals on the Malaysian Road Network	Mr. Scott Young	78
167	18 Aug 2021 10.00am - 12.00pm	E2TD	Webinar Talk	An Industry Forum on "Harnessing Digitalization and Technology in Facing Covid-19 Pandemic"	Mr. Hizam Ghazali, Mr. Abdul Karim Fakir Ali & Mr. Sanjay Vaghasia	49
168	19 Aug 2021 9.00am - 11.00am	EETD	Webinar Talk	Introduction to Hazardous Location and GMA Services (IECEX, ATEX, UKCA, CCC)	RD Venkataram	54
169	21 Aug 2021 9.00am - 11.00am	WE	Webinar Talk	Mandatory Scheduled Desludging Of Septic Tank	Mr. Pauzi Mohamed	61
170	21 Aug 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Introduction of Python - Part 2	Ir. Gary Chien Fan Chee	34
171	21 Aug 2021 11.30am - 1.30pm	WE	Virtual AGM	8 th Annual General Meeting of Women Engineers Section	NIL	61
172	21 Aug 2021 9.00am - 11.00am	PSESIG	Annual General Meeting	9th Public Sector Engineers Special Interest Group Virtual Annual General Meeting (AGM)	NIL	130
173	23 Aug 2021 5.00pm - 6.00pm	MaTD	Webinar Talk	Roles of Material Engineer in The Era of Industrial Revolution 4.0	Ir. Prof. Dr. Cheong Kuan Yew	86
174	24 Aug 2021 10.00am - 12.00pm	HTETD	Webinar Talk	Barriers for Safer Road Environment	Ir. Abdul Rahman Baharuddin	105
175	25 Aug 2021 9.00am - 5.30pm	PMTD	Virtual 1-Day Course	Project Scheduling using Opensource Tool: Project Libre	Ir. Dr Abang Annuar Ehsan	36
176	26 Aug 2021 3.00pm - 5.00pm	GETD	Webinar Talk	Uncased Borehole Soil Stabilization System Using Polymer Slurry	Ir. Sri Ram Ramankutty	133
177	26 Aug 2021 5.30pm - 7.30pm	ICTSIG	Webinar Talk	Understanding The Role of Artificial Intelligence in Gaming and How It Can Transform the Engineering Industry	Dr. Yew Weng Kean	60
178	28 Aug 2021 9.00am - 5.00pm	PMTD	Virtual 1-Day Course	Essential Skills for Effective Project Risk Management	Major (R) Dr. J. Prebagaran	43
179	28 Aug 2021 5.30pm - 7.00pm	WRTD	Webinar Talk	Water Quality Monitoring and Analysis: Getting It Right	Ir. Dr. Zaki Zainuddin	131
180	28 Aug 2021 9.00am - 12.00pm	ICTSIG	Virtual Digital Class	Intorduction to HTML/CSS/JS for Engineers - Part 2	Ir. Chai Chen Sing	40
181	2 Sep 2021 3.00pm - 5.00pm	EETD	Webinar Talk	Engineering a Successful Career for Women: Making A Difference Of The Future	Ir. Dr. Fatimah binti Ibrahim	33
182	3 Sep 2021 3.00pm - 5.00pm	AFETD	Webinar Talk	The Professional Development of an Engineer in the Palm Oil Milling	Ir. Hor Kok Luen	49
183	4 Sep 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Introduction to Python - Part 3	Ir . Gary Chien Fan Chee	33



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
184	4 Sep 2021 9.00am - 1.00pm	EETD	Virtual Half-Day Course	Introduction to Plant Maintenance	Ir. Faridul Farhan	56
185	4 Sep 2021 11.00am - 1.00pm	WRTD	Webinar Talk	Application of Computational Fluid Dynamics (CFD) on free surface Flow Problem	Dr. Puay How Tion	59
186	4 Sep 2021 2.00pm - 4.00pm	EETD	Webinar Talk	The Technology, Design, Features and Evaluation of Protective Relay	Ir. Tay Siang Hui	145
187	6 Sep 2021 5.00pm - 7.00pm	BSTD	Webinar Talk	Challenges in Design and Installation of Residential Sanitary Pipes Discharge to the Front of the House	Ir. Leong Hon Wah & Ir. Gary Lim Eng Hwa	81
188	7 Sep 2021 3.00pm - 5.00pm	CSETD	Webinar Talk	Recent Trends on the Assessment and Management of Bridges and Structures	Prof. Jose Campos e Motos	121
189	8 Sep 2021 5.00pm - 7.00pm	OGMTD	Webinar Talk	Critical Process Safety Design Aspects in Greenfield Oil & Gas Projects	En. Sallehuddin bin Sidek	50
190	9 Sep 2021 9.00am - 11.00pm	SSIG	Webinar Talk	Bridging the Gap between Academia and the Industry	Prof. Tan Sri . Dato' Dr. Dzulkifli Abdul Razak	50
191	9 Sep 2021 5.30pm - 6.30pm	CETD	Webinar Talk	Introduction to Process Failure Mode and Effect Analysis (PFMEA) for Chemical Manufacturing Industry	Ir. Ts. Lee Teck Lii & Ts. Vincent Khaw Wei Chuen	ТВА
192	11 Sep 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Owner Perspective: Feasibility, Benefits and Challenges between welded support vs sliding support design for FPSO topsides	Ir. Jamil Bin Ahmad	44
193	11 Sep 2021 11.30am - 1.30pm	EETD	Webinar Talk	Energy Management; The Map to Consistent Energy Efficiency	Mr. Izham Ismalik	105
194	11 Sep 2021 11.30am - 1.30pm	METD	Webinar Talk	Fire Protection for Lithium - Ion Battery Storage System	Mr. Ashwit Dias	73
195	11 Sep 2021 9.00am - 11.00am	ACT / CESIG	Special Forum	Amendments to Regulation 34A (1) of the Registration of Engineers Regulations 1990 (Amended 2015)	Multiple Speakers	173
196	11 Sep 2021 9.00am - 10.30am	ENETD	Webinar Talk	Remediation of Contaminated Land - A Practical Approach	Mr. Anthony Cole	57
197	14 Sep 2021 3.00pm - 5.00pm	ICTSIG	Webinar Talk	PC-Based Controller in the IIOT and Industry 4.0	Multiple Speakers	24
198	15 Sep 2021 2.00pm - 4.00pm	GETD	Webinar Talk	Failure Investigation of a Geosynthetic Reinforced Soil Slope subject to Rainfall	Prof. Yang Kuo-Hsin	146
199	15 Sep 2021 5.30pm - 7.30pm	PMTD	Webinar Talk	Schedule Delay Analysis with MS Project	Ir. Faizal A. Sanusi	87
200	18 Sep 2021 9.00am - 11.00am	EETD	Webinar Talk	The Role of Malaysian Communications and Multimedia Commission (MCMC) in the Communications & Multimedia Industry in Malaysia	Mr. Zulkarnain Mohd Yasin	46
201	18 Sep 2021 9.00am - 12.00pm	ICTSIG	Virtual Digital Class	Intorduction to HTML/CSS/JS for Engineers - Part 3	Ir. Chai Chen Sing	25
202	18 Sep 2021 11.30am - 1.30pm	EETD	Webinar Talk	Electrical Infrastructure Design in Data Centre	Ir. Maxx Wong Meng Fai	135
203	18 Sep 2021 11.30am - 1.30pm	CETD	Webinar Talk - Pre AGM Talk	Development and Implementation of Al-Driven Live Advisory for LNG Plant Start-Up	Ir. Dr. Chan Tuck Leong & Mr. Lee Kian Seng	12
204	20 Sep 2021 6.30pm - 8.30pm	MaTD	Webinar Talk	Nanoporous Materials & Their Applications	Assoc. Prof. Dr. Fei Yee Yeoh	14
205	21 Sep 2021 11.00am - 1.00pm	CESIG	Webinar Talk	Harmonics in HVAC Systems & its Mitigation	Vinod Jethani	70
206	21 Sep 2021 3.00pm - 5.00pm	MNATD	Webinar Talk	CMMS – "The Cutting Edge in Today Maintenance"	Mr. Timothy Chui You Chee	42
207	21 Sep 2021 3.00pm - 5.00pm	ICTSIG	Webinar Talk	PEMULIH FUNDS & GRANTS 2021- What's in it for you?	Mr. Kenny Lee	15
208	22 Sep 2021 5.30pm - 7.30pm	WRTD	Webinar Talk	Sustainable Groundwater Use	Datuk Ir. P. Geol Dr. Azuhan bin Mohamed	75
209	22 Sep 2021 8.30am - 1.00pm	GETD	Virtual Half-Day Course	Site Supervision of Displacement Pile Installation	Ir. Neoh Cheng Aik	74
210	22 Sep 2021 2.00pm - 4.00pm	EETD	Webinar Talk	The need for Adopting Energy Efficient Distribution Transformers	Dr. Bhaba P. Das	94
211	23 Sep 2021 10.00am - 12.00pm	EETD	Webinar Talk	National Young Professional – The Past, Present & Future Malaysia IEC Young Professional – Women in Standardisation	Various Speakers	32
212	23 Sep 2021 1.30pm - 5.30pm	AFETD	Virtual Half-Day Course	The Operation, Safety and Environmental Aspects of Biomass Boiler in Palm Oil Mill	Ir. Hor Kok Luen	12
213	25 Sep 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Process and Flow Assurance Analysis for HTHP Pipeline Design Optimization	Various Speaker	44
214	25 Sep2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Introduction to Python - Part 4	Ir . Gary Chien Fan Chee	28



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
215	25 Sep 2021 11.00am - 1.00pm	PMTD	Webinar Talk	Project Controls: Schedule Quality Assessment 101	Ir. Wan Rizaluddin	77
216	25 Sep 2021 2.00pm - 4.00pm	HTETD	Webinar Talk	Introducing 'Geobamtile', A Well-Tried Technique of Malaysia Origin for Deep Softground Treatment (Part 2)	Ir. Dr. Low Kai Sai	84
217	28 Sep 2021 9.30am - 11.30pm	EETD	Webinar Talk	Electricity Supply Application	Various Speakers	145
218	28 Sep 2021 3.00pm - 5.00pm	ICTSIG	Webinar Talk	Artificial Intelligence and Machine Learning for Agricultural Applications	Dr. Samsuzana	72
219	29 Sep 2021 2.30pm - 4.30pm	ENETD	Webinar Talk	Microplastics as Main Pollutants in Malaysian Rivers	Ms. Chen Hui Ling	31
220	29 Sep 2021 5.00pm - 7.00pm	BSTD	Webinar Talk	Eliminate Aedes Mosquito Breeding Ground in Built Environment	Ir. Gary Lim Eng Hwa	96
221	30 Sep 2021 3.00pm - 5.00pm	BSTD	Webinar Talk	Introduction of Ultrasonic Thermal Energy Metering	Mr Soren Lang	86
222	30 Sep 2021 9.00am - 1.00pm	HTETD	Virtual Half-Day Course	Best Practices on Road Construction and Preparing BQ Based on Civil Engineering Standard Method Of Measurement MSCESMM (2018), MyCESMM2	Ir. Gunasagaran Kristnan	56
223	2 Oct 2021 9.00am - 5.00pm	PMTD	Virtual 1-Day Course	Managing Energy Savings From Energy Efficiency Projects	Ir. Noor Iziddin Abdullah	24
224	2 Oct 2021 9.00am - 11.00am	EETD	Webinar Talk	IECEx Scheme for Certification of Personnel Competence (CoPC) for Explosive Atmospheres: Assessment Requirements	Ir. Syed Fadzil bin Syed Mohamed	45
225	2 Oct 2021 9.00am - 11.00am	CETD	Virtual AGM	Annual General Meeting of Chemical Engineering Technical Division	NIL	77
226	2 Oct 2021 9.00am - 12.00pm	ICTSIG	Virtual Digital Class	Intorduction to HTML/CSS/JS for Engineers - Part 4	Ir. Chai Chen Sing	21
227	5 Oct 2021 9.30am - 11.30am	WRTD	Webinar Talk	Impacts of Climate Change on Coastal Development	Dato' Ir. Dr. Nik Mohd Kamel Nik Hassan	81
228	6 Oct 2021 3.00pm - 5.00pm	CSETD	Webinar Talk	Marine Concrete	Mr. Yeo Shih Horng	184
229	9 Oct 2021 9.00am - 11.00am	METD	Virtual AGM	Annual General Meeting of Mechanical Engineering Technical Division	NIL	98
230	9 Oct 2021 10.00am - 12.00am	MaTD	Virtual AGM	Annual General Meeting of Material Engineering Technical Division	NIL	54
231	9 Oct 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Climate Change and the Need for Energy Transition	Ms. Kayleigh Hughes & Mr. Fairul Izmal Jamal Hisne	70
232	9 Oct 2021 9.00am - 11.00am	METD	Annual General Meeting	36 th Mechanical Engineering Technical Division Virtual Annual General Meeting	NIL	99
233	11 Oct 2021 2.00pm - 4.00pm	EETD	Webinar Talk	MS IEC 62305 Series Part 1	Mr. Shailendra Kumar	131
234	11 Oct 2021 5.00pm - 7.00pm	BSTD	Webinar Talk	Healthcare Disaster Management: Are We Ready?	Ir. Al Khairi	41
235	12 Oct 2021 2.00pm - 4.00pm	EETD	Webinar Talk	MS IEC 62305 Series Part 2	Mr. Shailendra Kumar	125
236	12 Oct 2021 3.00pm - 5.00pm	PMTD / OGMTD	Virtual Tour	Institut Teknologi Petroleum PETRONAS (INSTEP)	NIL	120
237	12 Oct 2021 5.30pm - 7.30pm	EETD	Webinar Talk	Overview of Grid Connected Solar Installation & Construction Risk	Ts. Ganesh Rao Nagiah	132
238	13 Oct 2021 5.00pm - 7.00pm	HTETD	Webinar Talk	Depot Design for an MRT System in Bogota, Colombia	Mr. David Starbuck	90
239	14 Oct 2021 10.00am - 12.00pm	BSTD	Webinar Talk	Lift Modernization & JumptLift	Mr. Iain Kinner & Mr. Paul Hendry	110
240	14 Oct 2021 5.00pm - 6.30pm	AD-HOC COMMITTEE		The Thinking of Engineer from the Perspective of a Military Man	Dato' Ir. Ahmad Murad	31
241	15 Oct 2021 5.30pm - 7.30pm	ICTSIG	Webinar Talk	Software Defined Radio	Associate Prof. Ir. Dr. Harikrishnan a/l Ramiah	23
242	16 Oct 2021 10.00am - 12.00pm	OGMTD	Webinar Talk	An Overview of Rare Earth Elements (REE): Introduction, Extraction Method and Its Potential in Malaysia	Dr. Ismail Ibrahim	75
243	16 Oct 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Intorduction to Java Programming - Part 1	Ir. Daniel Pu Chuan Hsian	28
244	16 Oct 2021 9.00am - 12.00pm	YES		The Big 5 Forum	Dr. Merlinda Sharzellene , Ms. Norherienda, Ms. Moey Siu Dione, Ms. Tan Hui Wen & Ts. Kuugan Thangarajoo	73



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
245	18 Oct 2021 5.00pm - 7.00pm	MaTD	Webinar Talk	Development of Low Temperature Lead-free Tin (Sn)- Bismuth (Bi) Solder Alloy for Electronic Packaging Application: An Investigation on Thermal and Mechanical Properties	Ir. Assoc. Prof. Rajkumar	19
246	20 Oct 2021 2.00pm - 6.30pm	GETD	Virtual Half-Day Seminar	Geosynthetics	Mr. Chris Lawson & Mr. Mike Dobie	44
247	21 Oct 2021 3.00pm - 5.00pm	GETD	Webinar Talk	Design of Deep Soil Mixing Using Lattice Arrangement for Deep Excavation	Er. William Chong	127
248	21 Oct 2021 5.30pm - 7.30pm	ICTSIG	Webinar Talk	IoT in Smart Agriculture	Mr. Tan Chin Luh	49
249	22 Oct 2021 3.00pm - 5.00pm	CSETD & CESIG	Webinar Talk	Impact of COVID-19 on Construction and Engineering: Past, Present and Future	Y.Bhg. Dato' Ir. Dr. Dennis Ganendra	84
250	23 Oct 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Digital Class	Intorduction to Arduino - Part 1	Ir. Amir Hussein bin Jaafar	28
251	23 Oct 2021 11.00am - 1.00pm	PMTD	Webinar Talk	Qualitative and Quantitative Risk Assessment in Project Management	Ir. Faizal A. Sanusi	75
252	23 Oct 2021 11.30am - 1.30pm	CETD	Webinar Talk	Development and Implementation of Unsafe Act Unsafe Condition Digital Reporting Solution	Ir. Dr. Chan Tuck Leong & Mr. Wee Mok Siong	12
253	23 Oct 2021 8.30am - 2.30pm	CETD	E-Competition	Chem-E Car Presentation Competition 2021	NIL	75
254	25 Oct 2021 2.30pm - 4.30pm	CSETD	Webinar Talk	Industrial Building System (IBS): The Future of Home Building	Ir. Thoo Hoi Hian	188
255	26 Oct 2021 9.00am - 5.00pm	HTETD	Virtual 1-Day Course	Road Safety Audit (RSA) & Traffic Management Plan (TMP)	Ir. Richard Wong	31
256	26 Oct 2021 10.00am – 12.00pm	SESIG	Webinar Talk	Risk Management, How The Insurance Industry Use COPE to Understand the Risk	Ir. Loo Chee Kin	41
257	27 Oct 2021 5.00pm - 6.30pm	MNATD	Webinar Talk	Marine Projects – A Delicate Balance for Engineers to Achieve Project Completion	First Admiral (Retired) Dato' Ir. Ahmad Murad B Omar & Ir. Ts. Abdul Malik Hussein bin Abdul Jalil	36
258	27 Oct 2021 5.00pm - 6.00pm	CETD	Webinar Talk	Introduction to HAZOP - Pitfall, Pointers and Practicalities	Ir. Razmahwata Razalli	16
259	28 Oct 2021 1.30pm - 5.30pm	AFETD	Virtual Half-Day Course	Stringent Regulation and Compliances from Authorities Influence the Design and Operation of a Palm Oil Mill	Ir. Hor Kok Luen	14
260	29 Oct 2021 9.00am - 11.00am	HTETD	Webinar Talk	Modernization + Mobility: How Transportation is Transforming	Mr. Joy Bhattacharya	44
261	29 Oct 2021 3.00pm - 5.00pm	ENETD	Webinar Talk	Optimization of Wastewater Treatment Process in Malaysia	Ms. Heli Karaila	101
262	30 Oct 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Intorduction to Java Programming - Part 2	Ir. Daniel Pu Chuan Hsian	19
263	30 Oct 2021 10.00am - 12.00pm	MNATD	Virtual Visit	Marine Technology Centre (MTC) Universiti Teknologi Malaysia	NIL	27
264	30 Oct 2021 10.00am - 12.00pm	HTETD	Webinar Talk	Public Transport Policies for Peninsular Malaysia	Ir. Dr. Tai Tuck Leong	65
265	6 Nov 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Intorduction to Arduino - Part 2	Ir. Amir Hussein bin Jaafar	18
266	6 Nov 2021 11.30am - 1.30pm	METD	Webinar Talk	Clean Energy Promotion through Third Party Access (TPA) Framework in Malaysia	Ir. Dr. Kannan M. Munisamy	40
267	6 Nov 2021 10.30am - 12.30pm	PMTD	Webinar Talk	How to Effectively Track, Mitigate and Prepare Progress Report in MS Project	Ir. Desmond Fung Bin Chai	70
268	9 Nov 2021 8.30am - 5.00pm	METD	Summit	Malaysia Aerospace Summit 2021 (MyAero'21)	Various Speakers	476
269	9 Nov 2021 2.00pm – 4.00pm	MaTD	Webinar Talk	Journey of Discovery and Recovery The Potential of Biomass Wastes	Ir. Prof. Dr. Ngoh Gek Cheng	49
270	10 Nov 2021 10.00am - 12.00pm	EETD & CESIG	Webinar Talk	Energy Efficiency Initiatives in Malaysia	Mr. Zulkiflee Umar	61
271	12 Nov 2021 4.00pm - 6.00pm	GETD	Webinar Talk	Bio Slopes Stabilisation	Dr. Apiniti Jotisankasa	122
272	12 Nov 2021 5.30pm - 7.30pm	ICTSIG	Webinar Talk	Dashboards Solution That Is Shaking The World	Mr. L. C. Chen	23
273	12 Nov 2021 10.00am - 12.00pm	SESIG	Online Dialogue Session	Online Dialogue Session with DOSH on "Occupational Safety and Health Industry Code of Practice Construction Industry (Design and Management) 2021"	Ir. Francis Ngiam Kee Hwee, Ir. Wong Chee Fui, Ir. Irin Ismail, Ir. M. Ramuseran, Ir. Dr. Mohd Fairuz Ab. Rahman & Ir. Tajul Ariffin Mohamed Nori	16



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
274	13 Nov 2021 9.00am - 11.00am	OGMTD	Webinar Talk	Solar Panel for Offshore Platform	Mr. Joel Lee Yong Sen	60
275	13 Nov 2021 9.00am - 5.00pm	PMTD	Virtual 1-Day Course	Carbon Emission Reduction in Energy Saving Projects based on Financial Modelling	Ir. Noor Iziddin	27
276	15 Nov 2021 3.30pm - 5.30pm	CSETD	Webinar Talk	Cellulosic Passive Fire Protection Fundamentals and Structural Fire Design	Mr. David Baron	119
277	16 Nov 2021 10.00am - 12.00pm	EETD / BSTD / ENETD	Webinar Talk	Green Building Certification (Operation and Maintenance) for Healthcare Facilities	Ts. Muhamad Nasrul bin Othman & Ts. Amir Zulkhairi bin Ahmad Bangi	72
278	16 Nov 2021 2.30pm - 4.30pm	TUSTD	Webinar Talk	Problem Solving in Tunneling Projects Using Numerical Modelling	Ir. Soo Wai Yee	59
279	16 Nov 2021 4.00pm - 6.00pm	ICTSIG	Webinar Talk	The Digital World is Revolutionizing the World – Should the Engineering Faculty be concerned?	Mr. Michael Fun	28
280	18 Nov 2021 9.00am - 1.00pm	EETD	Virtual Half-Day Seminar	High Voltage Substation Testing and Maintenance Practices in Compliance with Suruhanjaya Tenaga Requirements	Ir. Dr. Chan Seong Phun & Ir. Chan Jee Heng	95
281	19 Nov 2021 3.00pm - 5.00pm	PMTD	Webinar Talk	Managing Stress in Projects	Assoc. Prof. Dr. Abdul Rahman bin Abd. Rahim	20
282	20 Nov 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Intorduction to Java Programming - Part 3	Ir. Daniel Pu Chuan Hsian	14
283	20 Nov 2021 9.00am - 1.00pm	HTETD		Prof. Radin Umar Biennial Memorial Lecture No. 4 - 2021 - Title 1: RAMS Management Implementation in Railway Engineering Project – Process & Practices AND Title 2: Modeling Pedestrian Crossing Risk at Signalised Intersections	Dr. Nor Aziati Abdul Hamid & Ts. Dr. Rizati binti Hamidun	60
284	24 Nov 2021 10.00am - 12.00pm	GETD	Webinar Talk	Value Engineering in Mining with Geosynthetics	Mr. Brendan Swifte & Mr. Norhisam Omar	55
285	24 Nov 2021 5.00pm - 7.00pm	BSTD	Webinar Talk	Eliminate Aedes Mosquito Breeding Ground in Built Environment	Ir. Gary Lim Eng Hwa	96
286	25 Nov 2021 9.00am - 5.00pm	EETD	Virtual 1-Day Conference	2021 IEM-ST National Electrical Safety	Various Speakers	105
287	25 Nov 2021 5.30pm - 7.30pm	ICTSIG	Webinar Talk	How Electric Vehicles (EVs) and Smart Charging Infrastructure can Contribute to Low Carbon Economy in Malaysia?	Mr. Tan Lim Soon Fu	53
288	26 Nov 2021 10.00am - 12.00pm	HTETD	Webinar Talk	The Importance of Common Data Environment (CDE) in Infrastructure Projects	Ts. Mohd Rizal Mohd Rosly	55
289	26 Nov 2021 3.00pm - 5.00pm	PMTD	Webinar Talk	SPRM New HQ Project in Putrajaya - How KLCC Projeks as PMC Managed New technology For Innovation	En. Zainal Abidin bin Abdullah	56
290	26 Nov 2021 8.00pm - 9.30pm	YES	Webinar Talk	COVID-19 Vaccine: Science, Bringing us together?, 3rd Dose	Dr. Sivasubramaniam Balakrishnan	24
291	27 Nov 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Intorduction to Arduino - Part 3	Ir. Amir Hussein bin Jaafar	20
292	27 Nov 2021 11.30am - 1.30pm	MNATD	Webinar Talk	Introduction to Welding Engineering	Ir. Ts. Pragash Krishnasamy	75
293	27 Nov 2021 9.00am - 5.30pm	PMTD	Virtual 1-Day Course	Human Factors in Project Management	Major (R) Dr. J. Prebagaran	20
294	27 Nov 2021 9.00am - 5.30pm	OGMTD	Virtual 1-Day Course	Offshore Sand Separation: Design, Operation and Maintenance - Rescheduled from 03 July 2021	Ir. Dr. John Eow	22
295	27 Nov 2021 2.00pm - 4.00pm	SSIG	Webinar Talk	Private Retirement Scheme	Dato' Paduka Javern Lim	50
296	29 Nov 2021 2.00pm - 4.00pm	EETD & YES	Webinar Talk	Introduction & Path To Become Registered Electrical Energy Manager (Reem)	Mr. Mohd Faiz	47
297	29 Nov 2021 5.00pm - 7.00pm	TUSTD	Webinar Talk	Basement Excavation abd Foundation Design for Bukit Bintang City Center (BBCC), Kuala Lumpur - Bridging Numerical Analysis and Measurement	Ir. Ong Yin Hoe	98
298	30 Nov 2021 11.30am - 1.30pm	HTETD	Annual General Meeting	30th Highway and Transportation Engineering Technical Division Annual General Meeting (AGM)	NIL	97
299	2 Dec 2021 10.00 am – 12.00pm	MaTD	Webinar Talk	Plastics Sustainability: Challenges & Opportunities	Ir. Prof. Dr. Nor Yuliana Yuhana	43
300	4 Dec 2021 9.00am - 11.00am	ICTSIG	Webinar Talk - Online Digital Class	Intorduction to Java Programming - Part 4	Ir. Daniel Pu Chuan Hsian	16
301	4 Dec 2021 11.30am - 1.30pm	SESIG	Webinar Talk	Safe Management of Ammonia Refrigeration System	Ir. Tajul Ariffin Mohamed Nori	25
302	7-8 Dec 2021 9.00am -1.00pm	GETD	Virtual 2 Half-Day Seminar	Rock Engineering	Various Speakers	55



No.	Date & Time	TD/SIG/SEC + Others	Nature	Title	Speaker(s)	No. of Pax
303	7 Dec 2021 5.00pm - 7.00pm	GETD	Webinar Talk	The Challenges of ECRL Subgrade and Ground Treatment Works with the Fusion of Malaysia and China Design Code of Practice	Ir. Dr. Yew Wan Tian	119
304	8 Dec 2021 2.00pm - 4.00pm	EETD	Webinar Talk	Ester filled Distribution Transformers	Dr. Bhaba Das	43
305	10 Dec 2021 9.00am - 6.00pm	CSETD	Webinar 1-Day Course	Analysis and Design of Prestressed Transfer Plate and Its Shear Concentration Effects on RC Shear Walls	Ir. Dr. Low Hin Foo & Dr. Daniel Looi Ting Wee	236
306	11 Dec 2021 9.00am - 11.00am	EETD	Webinar Talk	Defibrillators – The Final Choice To Saving Lifes	Ir. Lau Yew Nen	55
307	14 Dec 2021 9.00am - 5.30pm	PMTD	Virtual Workshop	Creating Project Critical Path Method (CPM) by Using MS Projects 2010 for the Beginners	Ir. Desmond Fung Bin Chai	34
308	15 Dec 2021 3.00pm - 5.00pm	PMTD	Webinar Talk	Malaysian Model of Biophilic Cities: Emerging Roles of Project Managers	Ir. Assoc. Prof. Syuhaida binti Ismail	52
309	15 Dec 2021 10.00am - 12.00pm	OGMTD	Webinar Talk	Towards Net Zero Carbon Emission - A holistic transportation technology of dense-phase CO2 via pipelines	Ir. Dr. Azmi Mohammed Nor & Dr. Muhammad Firdaus Suhor	65
310	16 Dec 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Why Malaysia will never ever progress without software quality at all levels	Ir. Vigneaswaran Shanmugananthan	29
311	16 Dec 2021 5.20pm - 7.30pm	METD	Webinar Talk	Co-LO Data Center and Edge DC Latest ACMV Design and Technology Trend	Ir. Eric Chang	50
312	18 Dec 2021 9.00am - 11.00am	OGMTD	Annual General Meeting	31st Oil, Gas and Mining Technical Division Annual General Meeting (AGM)	NIL	64
313	18 Dec 2021 9.00am - 11.00am	UEDSIG	Annual General Meeting	4th Urban Engineering Development Special Interest Group Annual General Meeting (AGM)	NIL	56
314	21 Dec 2021 3.00pm - 4.00pm	PMTD / PSESIG	Webinar Talk	Fighting Bribery in the Construction Industry	En. Mohd Khairi Ibrahim	37
315	22 Dec 2021 5.30pm - 7.30pm	CESIG	Webinar Talk	Why state of the art SCADA automation projects fails in Malaysia today	Ir. Vigneaswaran Shanmugananthan	30





THE INSTITUTION OF ENGINEERS, MALAYSIA HONORARY TREASURER'S REPORT ACCOUNTS FOR THE YEAR ENDED 31ST DECEMBER 2021



- The 2021 fiscal Statement of Accounts and the Balance Sheet of the Institution are as presented on pages 155
 to 185 of this Annual Report. The accounts are maintained by the Standing Committee on Finance to which the
 Honorary Treasurer is the Secretary.
- 2. The financial statements presented comprise of three sets of accounts. The columns denoted by "Institution" refers to the financial performance of IEM but these figures do not include the financial position of the IEM Branches who file their financial statements with the IRB of the respective states. The amalgamated accounts of all Branches are presented on page 184 to 185.
- 3. The columns denoted by "Group" refers to the consolidated accounts of IEM, IEM Training Academy Sdn Bhd (formerly known as IEM Training Centre Sdn Bhd) and IEM Academy Sdn Bhd. There are some columns where figures are shown under "Institution" but blank under "Group" and vice versa. This is due to the figures being related party transactions which were eliminated on consolidation.
- 4. The total income for year 2021 is RM5,039,134, which is RM246,355 higher as compared to year 2020. This total income included RM785,512 being the net income from Institutional services, and RM792,441 from rental income.
- 5. The increase in revenue is mainly contributed by the improved Surplus from activities of the Technical Divisions, which recorded RM343,461 as compared to RM181,583 in 2020. The Technical Divisions were very successful in organising online courses and seminars, as well as Technical Talks.
- 6. The main source of the total income continues to come from annual subscriptions which amounted to RM3,232,114 in 2021. It constitutes approximately 64.1% of the total income of the Institution as compared to 68.2% in 2020, 69.8% in 2019, 65% in 2018 and 51% in 2017. At the end of 2021, there were subscriptions still owing from members amounting to RM444,408 compared to RM434,686 recorded in year 2020.
- 7. The total expenditure of the Institution was RM4,680,990, and it is RM135,203 lower than that of year 2020. The main operating expenditure items were personnel emoluments RM 2,253,370 (49%) and administrative expenses RM561,219 (12%), and Branch Subsidies RM571,920. Branch Subsidies for West Malaysia Branches had been increased to 30% of the collection from the respective Branches with effect from 2020. In comparison, expenses for year 2021 was 2.8% lower than 2020.
- 9. Various initiatives had been implemented to optimize the operating costs including the move to adopt paperless meetings in IEM, thereby reducing cost of printing as well as posting of minutes of meetings/ meeting documents to Committee Members. IEM had also implemented distribution of IEM publications namely the Jurutera and Journal via digital copies to members. Majority of IEM meetings including Excomm and Council meetings were conducted virtually during the year of 2021. The AGM was also held virtually and the Council election was conducted via e-Balloting, reducing considerable operation costs. In addition, IEM had also obtained subsidy from PERKESO for part of the staff salary.
- 10. Financially, IEM as an Institution recorded a surplus of RM358,144 in financial year 2021, as compared to a deficit of RM23,414 in financial year 2020 and a deficit of RM212,933 in the financial year 2019.

Ir. Fam Yew Hin Honorary Treasurer





THE INSTITUTION OF ENGINEERS, MALAYSIA HONORARY INTERNAL AUDITOR'S REPORT ACCOUNTS FOR THE YEAR ENDED 31 DECEMBER 2021



I have examined the Balance Sheet as at 31st December 2021, the Income and Expenditure Account together with Notes on the Accounts set out on pages 157 to 182, accounting and other records.

I hereby certify that they give a true and fair view of the state of affairs and the results of the Institution's operations for the year ended on that date.

Ir. Toh Chin Kok, Steven Honorary Internal Auditor

Ir. Sreedaran a/I Raman Honorary Internal Auditor



THE INSTITUTION OF ENGINEERS, MALAYSIA REPORTS AND FINANCIAL STATEMENTS FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021



STATEMENT BY COUNCIL

In the opinion of the council, the financial statements set out on pages 157 to 182 are drawn up in accordance with Malaysian Private Entities Reporting Standard and the constitution and by-laws of the Institution so as to give a true and fair view of the financial position of the Group and of the Institution as at 31 December 2021 and of the financial performance and cash flows of the Group and of the Institution for the financial year ended on that date.

Signed on behalf of the Council,

Ir. Ong Ching Loon President

Petaling Jaya Date: 21 March 2022 Ir. Fam Yew Hin Hon Treasurer

STATUTORY DECLARATION

I, Ir. Fam Yew Hin (I/C No.: 761128-05-5147), the Hon Treasurer primarily responsible for the financial management of The Institution Of Engineers, Malaysia, do solemnly and sincerely declare that the financial statements set out on pages 157 to 182 are, in my opinion, correct and I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Statutory Declarations Act, 1960.

Subscribed and solemnly declared by the above-named at Petaling Jaya in the state of Selangor Darul Ehsan on 21 March 2022

Before me,

No. B 508 WONG CHOY YIN 1.2021 - 31.12.2023

COMMISSIONER FOR OATHS

3 Damansara Shopping Mall 3, Jalan SS20/27 47400 Petaling Jaya Selangor Darul Ehsan Ir. Fam Yew Hin

INDEPENDENT AUDITORS' REPORT TO THE MEMBERS OF THE INSTITUTION OF ENGINEERS, MALAYSIA

Report On The Audit Of The Financial Statements

Opinion

We have audited the financial statements of The Institution Of Engineers, Malaysia, which comprise the statement of financial position as at 31 December 2021 of the Group and of the Institution, and the statement of income and expenditure, statement of changes in equity and statement of cash flows of the Group and of the Institution for the financial year then ended, and notes to the financial statements, including a summary of significant accounting policies, as set out on pages 157 to 182.

In our opinion, the accompanying financial statements give a true and fair view of the financial position of the Group and of the Institution as at 31 December 2021, and of its financial performance and its cash flows for the financial year then ended in accordance with Malaysian Private Entities Reporting Standard and the constitution and by-laws of the institution.

Basis for Opinion

We conducted our audit in accordance with approved standards on auditing in Malaysia and International Standards on Auditing. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independence and Other Ethical Responsibilities

We are independent of the Group and of the Institution in accordance with the By-Laws (on Professional Ethics, Conduct and Practice) of the Malaysian Institute of Accountants ("By-Laws") and the International Ethics Standards Board for Accountants' International Code of Ethics for Professional Accountants (including International Independence Standards) ('IESBA Code'), and we have fulfilled our other ethical responsibilities in accordance with the By-Laws and the IESBA Code.

Responsibilities of the Council for the Financial Statements

The council of the Institution is responsible for the preparation of financial statements of the Group and of the Institution that give a true and fair view in accordance with Malaysian Private Entities Reporting Standard and the constitution and by-laws of the institution. The council is also responsible for such internal control as the council determine is necessary to enable the preparation of financial statements of the Group and of the Institution that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements of the Group and of the Institution, the council is responsible for assessing the Group's and the Institution's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the council members either intend to liquidate the Group and the Institution or to cease operations, or has no realistic alternative but to do so.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements of the Group and of the Institution as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with approved standards on auditing in Malaysia and International Standards on Auditing will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with approved standards on auditing in Malaysia and International Standards on Auditing, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements of the Group and of the Institution, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate
 in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's and of the
 Institution's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the council members.



- Conclude on the appropriateness of the council's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's and the Institution's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the financial statements of the Group and of the Institution or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Group and the Institution to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements of the Group and of the Institution, including the disclosures, and whether the financial statements of the Group and of the Institution represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the council regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Other Matters

This report is made solely to the council, in accordance with Section 26 of the Societies Act, 1966 in Malaysia and for no other purpose. We do not assume responsibility to any other person for the content of this report.

CHI-LLTC

Chartered Accountants

AF: 1114

Petaling Jaya

Dated: 21 March 2022

Ng Leong Teck Chartered Accountant 3168/12/23(J)

156

STATEMENT OF FINANCIAL POSITION AS AT 31 DECEMBER 2021

		Gro	oup	Instit	ution
		2021	2020	2021	2020
	Note	RM	RM	RM	RM
ASSET					
NON-CURRENT ASSETS					
Property, plant and equipment	4	14,686,187	15,280,947	14,648,268	15,120,421
Investment properties	5	3,345,128	3,422,859	3,345,128	3,422,859
Investment in subsidiaries	6	-	-	200,000	200,000
Deferred tax asset	7	706,537	930,231	-	-
Goodwill on consolidation		65,588	65,588	-	-
		18,803,440	19,699,625	18,193,396	18,743,280
CURRENT ASSETS					
Receivables	8	2,063,152	2,023,646	1,646,177	1,792,480
Deposits, cash and bank balances	9	8,007,733	7,455,825	5,785,929	4,633,567
		10,070,885	9,479,471	7,432,106	6,426,047
TOTAL ASSETS		28,874,325	29,179,096	25,625,502	25,169,327
	_				
EQUITY AND LIABILITIES					
EQUITY					
Accumulated fund	10	10,094,080	10,463,762	7,548,284	7,245,452
Capital reserve fund	11	3,630,888	3,630,888	3,630,888	3,630,888
Capital contribution reserve	12	4,463,115	4,413,414	4,463,115	4,413,414
Activities fund	13	67,331	67,331	67,331	67,331
Library fund	14	733,768	765,898	733,768	765,898
Building fund	15	3,684,555	3,653,633	3,684,555	3,653,633
Stem fund	16	32,802	26,975	32,802	26,975
TOTAL EQUITY		22,706,539	23,021,901	20,160,743	19,803,591
NON-CURRENT LIABILITIES					
Payable	17	-	-	-	-
Term loan	18	981,080	1,079,116	981,080	1,079,116
		981,080	1,079,116	981,080	1,079,116
CURRENT LIABILITIES					
Payables	17	4,752,691	4,245,929	4,372,781	4,074,364
Bank overdraft	19	5,252	102,375	5,252	102,375
Term loan	18	105,646	109,881	105,646	109,881
Provision for tax		323,117	619,894	-	-
		5,186,706	5,078,079	4,483,679	4,286,620
TOTAL LIABILITIES		6,167,786	6,157,195	5,464,759	5,365,736
TOTAL EQUITY AND LIABILITIES		28,874,325	29,179,096	25,625,502	25,169,327



STATEMENT OF INCOME AND EXPENDITURE FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021

		Gro	oup	Instit	ution
		2021	2020	2021	2020
	Note	RM	RM	RM	RM
INCOME					
Members' subscription fees		3,232,114	3,385,223	3,232,114	3,385,223
Training and registration fees		153,085	3,733,365	-	-
Interest income		91,468	156,470	43,108	57,745
Membership reinstatement fees		25,505	22,300	25,505	22,300
Miscellaneous income:		,	,	,	,
- Credit cards commission		58,976	61,067	58,976	61,067
- Arbitration levy		6,963	25,862	6,963	25,862
- Others		18,549	178,719	94,515	17,249
		3,586,660	7,563,006	3,461,181	3,569,446
LESS: EXPENDITURE		0,000,000	7,000,000	0, 101, 101	0,000,110
Cost for courses		92,555	1,916,259	_	_
Personnel emoluments and benefits	20	2,667,646	2,825,425	2,253,370	2,272,720
Administrative expenses	21	841,729	856,928	561,219	659,959
Branch subsidies	22	571,920	529,421	571,920	529,421
Inter-society activities	23	20,912	21,668	20,912	21,668
Subscription in arrears written off	20	219,428	151,759	219,428	151,759
Depreciation of plant and equipment		80,766	134,648	45,682	96,891
		(4,494,956)	(6,436,108)	(3,672,531)	(3,732,418)
(DEFICIT) / SURPLUS		(4,494,950)	(0,430,100)	(3,072,331)	(3,732,410)
(Deficit) / surplus from core institution		(908,296)	1,126,898	(211,350)	(162,972)
Surplus from institutional services	24				
I Total Control of the Control of th	24	785,512	525,105	785,512	402,813
Operational (deficit) / surplus Deficit from rental income	O.F.	(122,784)	1,652,003	574,162	239,841
!	25	(216,018)	(263,255)	(216,018)	(263,255)
Amortised cost adjustment		(000,000)	4 000 740	050.444	(00.44.4)
(Deficit) / surplus before tax		(338,802)	1,388,748	358,144	(23,414)
Income tax expense		(000,000)	1 000 710	-	(00.44.4)
(Deficit) / surplus for the year		(338,802)	1,388,748	358,144	(23,414)
OTHER CONTRIBUTIONS RESERVED					
OTHER CONTRIBUTIONS RECEIVED					
Capital reserve fund Contribution from branches	11		74.000		74.000
l	11	-	74,302	-	74,302
Library fund	4.4		10.450		10.450
Enrollment fees and donation received	14	-	18,450	-	18,450
Building fund	4.5		FC 000		F0.000
Donation received	15	-	56,380	-	56,380
Tatal (deficit) / accomplished		-	149,132	-	149,132
Total (deficit) / surplus and before tax / other contributions received		(338,802)	1,537,880	358,144	125,718
Income tax expense	26	24,432	(536,963)	-	(108,859)
Total (deficit) / surplus and other contributions (deficit) / received for the financial year		(314,370)	1,000,917	358,144	16,859

STATEMENT OF CHANGES IN CAPITAL AND RESERVES FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021



Group	Accumulated fund RM	Capital reserve fund RM	Capital contribution reserve RM	Activities fund RM	Library fund RM	Building fund RM	Stem fund RM	Total RM
As at 31 December 2019 Surplus for the financial year	9,462,845 1,327,170	3,663,686	4,262,354		747,448	3,597,253	19,813	21,753,399 1,327,170
Repayment of term loan by	ı	152,500	1	ı	ı	ı	ı	152,500
Drawdown of repayment	ı	(259,600)	ı	ı	ı	1		(259,600)
Overtaken of repayment of	1	(102,628)	ı	ı	I	1	ı	(102,628)
Entrance and transfer fees	•	•	151,060	ı	ı	•	1	151,060
Transfer of funds	(326,253)	176,930	•	67,331	18,450	56,380	7,162	•
As at 31 December 2020 Deficit for the financial year	10,463,762 (314,370)	3,630,888	4,413,414	67,331	765,898	3,653,633	26,975	23,021,901 (314,370)
Sabah branch	ı	•	ı	•	•	ı	1	•
term loan in prior years	ı	ı	I	ı	ı	ı	ı	1
Drawdown of repayment	1	I	1	ı	ı	1	1	1
Entrance and transfer fees Transfer of funds	- (55,312)		49,701		(32,130)	30,922	5,827	49,701 (50,693)
As at 31 December 2021	10,094,080	3,630,888	4,463,115	67,331	733,768	3,684,555	32,802	22,706,539
	Accumulated fund RM	Capital reserve fund	Capital contribution reserve	Activities fund RM	Library fund RM	Building fund RM	Stem fund RM	Total RM
Institution	מיט דייי	ווע	RM		1	0		1
As at 31 December 2019 Surplus for the financial year	7,554,846 16,859	3,663,686	4,262,354		747,448	3,597,253	19,813	19,845,400 16,859
Repayment of term loan by Sabah branch		152,500	1	•	•		•	152,500
Overtaken of repayment of term loan in prior years	ı	(259,600)	ı	ı	ı	ı	ı	(259,600)
Drawdown of repayment	ı	(102,628)	1	ı	ı	1	ı	(102,628)
Entrance and transfer fees Transfer of funds	(326.253)	176.930	151,060	- 67.331	18.450	- 56.380	7.162	151,060
As at 31 December 2020 Surplus for the financial year	7,245,452 358,144	3,630,888	4,413,414	67,331	765,898	3,653,633	26,975	19,803,591 358,144
Repayment of term loan by Sabah branch	1	•	I	•	•	ı	•	1
Overtaken of repayment of term loan in prior years	ı	1	ı	ı	•	l	ı	ı
Drawdown of repayment	•	1	1	ı	1	•	•	ı
Entrance and transfer fees	- (55 310)		49,701	1	(32 130)	- 30 00	- 708 R	49,701
As at 31 December 2021	7,548,284	3,630,888	4,463,115	67,331	733,768	3,684,555	32,802	20,160,743



STATEMENT OF CASH FLOWS FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021

Act Color			Group		Institution	
CASH FLOWS FROM OPERATING			2021	2020	2021	2020
ACTIVITES Total (deficit) / surplus and other contributions (deficit) / received before tax Adjustments for: Stad debts written off		Note	RM	RM	RM	RM
Contributions (deficit) / received before tax	ACTIVITIES					
Bad debts written off - property, plant and equipment written off Reversal of impairment loss on receivables - (55,959) - 14,554 - 14,554 Reversal of impairment loss on receivables - (55,959) - 19,428 - 151,759 - 116,759	contributions (deficit) / received before		(338,802)	1,537,880	358,144	125,718
Depreciation	Adjustments for:					
- property, plant and equipment - investment properties	Bad debts written off		74,175	32,257	-	-
-investment properties Gain on disposal of property, plant and equipment written off equipment properties Property, plant and equipment written off Property, plant and equipment Property Property, plant and equipment Property	Depreciation					
Gain on disposal of property, plant and equipment virtien off Property, plant and equipment written off Reversal of impairment loss on receivables	1 · · · · · · · · · · · · · · · · · · ·		514,727	601,886	479,643	564,129
Property, plant and equipment written off 97,105 14,554 14,554 14,554 14,554 14,554 14,554 14,554 14,554 14,554 14,554 14,554 15,554 14,554 15,554 15,554 15,5559 15,759 15,759 15,759 15,759 16,759 1	1		77,731	77,732	77,731	77,732
Reversal of impairment loss on receivables - (55,959) -			(10,520)	-	-	-
Subscription in arrears written off interest income incom	Property, plant and equipment written off		97,105	14,554	-	14,554
Interest income (91.468) (157,310 (43,108) (57,745) Interest expense (62,190 60,835 62,190 60,835 (62,190 60,835 62,190 60,8416 418,388 3,286,344 3,249,162 1,721,875 618 618,189 80,201 60,801	Reversal of impairment loss on receivables		-	(55,959)	-	-
Interest expense Operating surplus before working capital changes Decrease / (increase) in receivables Decrease / (increase) in receivables Decrease / (increase) in receivables Decrease in subscription in arrears (222,630) (137,656) (222,630) (284,800) Increase in subscription in arrears (222,630) (137,656) (222,630) (284,800) Increase in subscription in advances (61,030) (204,199) (61,030) (193,721) Cash generated from operations Tax paid Tax refund Tax paid (48,651) (156,089) Tecrease in subscription in advances CASH FLOWS FROM INVESTING ACTIVITIES Interest received Pruchases of property, plant and equipment Proceeds from disposal of plant and equipment Utilisation of capital reserve fund Utilisation of capital reserve fund Utilisation of capital reserve fund CASH FLOWS FROM FINANCING ACTIVITIES Repayment to term loans CASH FLOWS FROM FINANCING ACTIVITIES Repayment to term loans (102,271) (110,306) (59,55) (367,428) Changes in bank overdraft (97,123) 102,375 (97,123) 102,375 Placement in fixed deposits (163,150) (17,00,000) (163,150) Term loan interest (62,190) (60,835) (52,27,009) Term loan interest (62,190) (60,835) (52,27,009) Term loan interest (62,190) (60,835) (62,27,009) Term loan interest (62,190) (60,835) (62,27,009) Term loan interest (62,190) (60,835) Tend deposits interest (83,941) (17,00,000) Tend (17,00,000) Tend (183,150) (17,00,000	Subscription in arrears written off		219,428	151,759	219,428	151,759
Operating surplus before working capital changes 604,566 2,263,634 1,154,028 936,982 Decrease / (Increase) in receivables 94,664 1,656,968 145,402 293,176 Increase in subscription in arrears (222,630) (137,656) (222,630) (284,800) Increase / (decrease) in payables 595,406 (123,261) 358,538 (88,189) Decrease in subscription in advances (61,030) (204,199) (61,030) (193,721) Cash generated from operations 1,010,976 3,455,486 1,374,308 663,448 Tax refund - - - - - Tax paid (48,651) (156,089) - - - Net cash generated from operating activities 962,325 3,299,397 1,374,308 663,448 ACTIVITIES 1 (48,651) (156,089) -	Interest income			(157,310)		
Capital changes 004,366 2,263,094 1,154,02 333,962			62,190	60,835	62,190	60,835
Increase in subscription in arrears (222,630) (137,656) (222,630) (284,800) Increase / (decrease) in payables 595,406 (123,261) 358,538 (88,189) Decrease in subscription in advances (61,030) (204,199) (61,030) (193,721) Cash generated from operations 1,010,976 3,455,486 1,374,308 663,448 Tax refund -			604,566	2,263,634	1,154,028	936,982
Increase / (decrease) in payables 595,406 (123,261) 358,538 (88,189) Decrease in subscription in advances (61,030) (204,199) (61,030) (193,721) Cash generated from operations 1,010,976 3,455,486 1,374,308 663,448 Tax refund	Decrease / (increase) in receivables		94,664	1,656,968	145,402	293,176
Decrease in subscription in advances	· ·		(222,630)	(137,656)	(222,630)	(284,800)
Cash generated from operations 1,010,976 3,455,486 1,374,308 663,448 Tax refund - <t< td=""><td>1</td><td></td><td>595,406</td><td>(123,261)</td><td>358,538</td><td>(88,189)</td></t<>	1		595,406	(123,261)	358,538	(88,189)
Tax paid (48,651) (156,089)	· ·		(61,030)	(204,199)	(61,030)	(193,721)
Tax paid			1,010,976	3,455,486	1,374,308	663,448
Net cash generated from operating activities			-	-	-	-
Activities Soc. 325 S.299.397 I.374,306 Soc. 3446	•		(48,651)	(156,089)	-	-
CASH FLOWS FROM INVESTING ACTIVITIES			962.325	3.299.397	1.374.308	663.448
ACTIVITIES Interest received 2,527 157,310 2,527 57,745 Purchases of property, plant and equipment 4 (17,469) (369,005) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (366,505) (7,490) (40,470) (10,306) (1		l	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Purchases of property, plant and equipment Proceeds from disposal of plant and equipment Utilisation of capital reserve fund Entrance and transfer fees capitalised Proceeds from / (used in) financing activities Cash FLOWS FROM FINANCING ACTIVITIES Repayment to term loans Changes in bank overdraft Placement in fixed deposits Changes in fixed deposits Changes in fixed deposits Changes in deferred revenue Advances to a related company Repayment from subsidiary Retach (used in) / generated from financing activities Retach and cash equivalents at beginning of the financial year Cash and cash equivalents at end of the	ACTIVITIES					
equipment Proceeds from disposal of plant and equipment Utilisation of capital reserve fund (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (209,728) (50,693) (50,	l e e e e e e e e e e e e e e e e e e e		2,527	157,310	2,527	57,745
Proceeds from disposal of plant and equipment Utilisation of capital reserve fund Entrance and transfer fees capitalised Net cash generated from / (used in) financing activities CASH FLOWS FROM FINANCING ACTIVITIES Repayment to term loans Changes in bank overdraft Changes in fixed deposits Changes in fixed deposits Changes in fixed deposits Changes in fixed deposits Changes in deferred revenue Advances to a related company Repayment from subsidiary Repayment from subsidiary Repayment from subsidiary Net cash (used in) / generated from financing activities Repayment from subsidiary Repayment from subsidiary Net cash (used in) / generated from financing activities Repayment activities Repayment from subsidiary Repayment	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	(17,469)	(369,005)	(7,490)	(366,505)
Utilisation of capital reserve fund (50,693) (209,728) (50,693) (209,728) Entrance and transfer fees capitalised 49,701 151,060 49,701 151,060 Net cash generated from / (used in) financing activities CASH FLOWS FROM FINANCING ACTIVITIES Repayment to term loans (102,271) (110,306) (102,271) (110,306) Term loan interest (62,190) (60,835) (62,190) (60,835) Changes in bank overdraft (97,123) 102,375 (97,123) 102,375 Placement in fixed deposits (163,150) (1,700,000) (163,150) - Fixed deposits interest 88,941 - 40,581 - Changes in fixed deposits 90,970 4,868,785 (25,269) 1,267,965 Changes in deferred revenue (143,326) (5,227,009) Advances to a related company (89,431) 5,012 32,068 Net cash (used in) / generated from financing activities Net increase in cash and cash equivalents at beginning of the financial year Cash and cash equivalents at end of the	Proceeds from disposal of plant and		10,917	-	-	-
Entrance and transfer fees capitalised 49,701 151,060 49,701 151,060 Net cash generated from / (used in) financing activities CASH FLOWS FROM FINANCING ACTIVITIES Repayment to term loans (102,271) (110,306) (102,271) (110,306) (60,835) (62,190	1 1 1		(50,603)	(200 728)	(50,603)	(200 728)
Net cash generated from / (used in) financing activities (5,017) (270,363) (5,955) (367,428) CASH FLOWS FROM FINANCING ACTIVITIES Repayment to term loans (102,271) (110,306) (102,271) (110,306) Term loan interest (62,190) (60,835) (62,190) (60,835) Changes in bank overdraft (97,123) 102,375 (97,123) 102,375 Placement in fixed deposits (163,150) (1,700,000) (163,150) - Fixed deposits interest 88,941 - 40,581 - Changes in fixed deposits 90,970 4,868,785 (25,269) 1,267,965 Changes in deferred revenue (143,326) (5,227,009) - - Advances to a related company (89,431) - - - Repayment from subsidiary - (477,580) (2,126,990) (404,410) 1,231,267 Net increase in cash and cash equivalents 479,728 902,044 963,943 1,527,287 Cash and cash equivalents at beginning of the financial year 4,188,388	· ·					
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CASH FLOWS FROM FINANCING ACTIVITIES Repayment to term loans Term loan interest (62,190) (60,835) (62,190) (60,835) (62,190) (60,835) Changes in bank overdraft (97,123) Placement in fixed deposits (163,150) Fixed deposits interest (163,150) Fixed deposits (163,150) Fixed deposits interest (163,150) Fixed deposits (163,150) (1,700,000) (163,150) Fixed deposits (25,269) 1,267,965 Changes in fixed deposits (102,271) (110,306) (102,271) (110,306) (102,271) (110,306) (60,835) (97,123) 102,375 (97,123) 102,375 Fixed deposits (163,150) (1,700,000) (163,150) - 4,868,785 (25,269) 1,267,965 - 5,012 32,068 Net cash (used in) / generated from financing activities Net increase in cash and cash equivalents (477,580) (2,126,990) (404,410) 1,231,267 A 188,388 A 213,105 3 249,162 3 249,162			(5,017)	(270,363)	(5,955)	(367,428)
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Sixed deposits interest 88,941 - 40,58	Changes in bank overdraft		(97,123)	102,375	(97,123)	102,375
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Changes in deferred revenue (143,326) (5,227,009)			88,941	-	·	-
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Repayment from subsidiary 5,012 32,068 Net cash (used in) / generated from financing activities (477,580) (2,126,990) (404,410) 1,231,267 Net increase in cash and cash equivalents 479,728 902,044 963,943 1,527,287 Cash and cash equivalents at beginning of the financial year 4,188,388 3,286,344 3,249,162 1,721,875 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 3,249,162 Cash and cash equivalents at end of the 9 4,668,116 4,188,388 4,213,105 4	_			(5,227,009)	-	-
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Net increase in cash and cash equivalents Cash and cash equivalents at beginning of the financial year Cash and cash equivalents at end of the			(477,580)	(2,126,990)	(404,410)	1,231,267
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of the financial year Cash and cash equivalents at end of the	equivalents		479,728	902,044	963,943	1,527,287
	of the financial year		4,188,388	3,286,344	3,249,162	1,721,875
financial year	Cash and cash equivalents at end of the financial year	9	4,668,116	4,188,388	4,213,105	3,249,162

NOTES TO THE FINANCIAL STATEMENTS FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021

1. GENERAL INFORMATION

The Institution is a registered institution registered under the Society Act, 1966 and domiciled in Malaysia.

The registered office and principal place of office is located at Bangunan Ingenieur, Lot 60 & 62, Jalan 52/4, Peti Surat 223, Jalan Sultan, 46720 Petaling Jaya, Selangor Darul Ehsan.

The Institution is principally engaged in the business as promote and advance the science and profession of all aspects of engineering. The principal activities of the subsidiaries are described in Note 5 in the notes to the financial statements. There has been no significant changes in the nature of these principal activities of the Institution and of its subsidiaries during the financial year.

The financial statements of the Group and of the Institution are presented in the functional currency, which is the currency of the primary economic environment in which the entity operates. The functional currency of the Group and of the Institution is Ringgit Malaysia as the sales and purchases are mainly denominated in Ringgit Malaysia and receipts from operations are usually retained in Ringgit Malaysia and funds from financing activities are generated in Ringgit Malaysia.

2. SIGNIFICANT ACCOUNTING POLICIES

The financial statements have been prepared in accordance with the Malaysian Private Entities Reporting Standard ("MPERS") and the constitution and by-laws of the institution.

The financial statements have been prepared on the historical cost basis, except for the revaluation of certain assets and liabilities.

The principal accounting policies adopted are set out below:

2.1 BASIS OF CONSOLIDATION

The Group financial statements include the audited financial statements of the Institution and all of its subsidiaries. Subsidiaries are those companies in which the Group has power, directly or indirect, to exercise control over the financial and operating policies so as to obtain benefits from its activities. Investments in subsidiaries are stated at cost less impairment losses.

All inter-company transactions, balances and resulting unrealised gains are eliminated; unrealised losses are also eliminated unless cost cannot be recovered. Where necessary, adjustments are made to the financial statements of subsidiaries to ensure consistency of accounting policies with those of the Group.

The financial statements of the parent and its subsidiaries are all drawn up to the same reporting date.

Subsidiaries are consolidated using the acquisition method of accounting from the date control is transferred to the Group and are no longer consolidated from the date control ceases. The results of the subsidiary companies acquired during the financial year are included in the consolidated financial statements from the date of their acquisition.

Minority interests in the consolidated balance sheets consist of the minorities' share of fair values of the identifiable assets and liabilities of the acquiree as at the date of acquisition and the minorities' share of movements in the acquiree's equity. Losses applicable to the minority in excess of the minority in excess of the minority's interest in the subsidiary's equity are allocated against the interest of the Group except to the extent that the minority has a binding obligation and is able to make good the losses.

2.2 **INVESTMENTS IN SUBSIDIARIES**

Investments in subsidiaries are stated at cost in the balance sheet of the Institution, and are reviewed for impairment at the end of the reporting period if events or changes in circumstances indicate that the carrying values may not be recoverable.

On the disposal of the investments in subsidiary, the difference between the net disposal proceeds and the carrying amount of the investments is recognised in profit or loss.

2.3 GOODWILL

Goodwill represents the excess of the fair value of purchase consideration of subsidiaries acquired over the Institution's share of the fair values of their identifiable assets and liabilities at the date of acquisition.



The carrying amount of goodwill is written down for impairment if the recoverable amount is less than its carrying value.

2.4 PROPERTY, PLANT AND EQUIPMENT

The cost of an item of property, plant and equipment is recognised as an asset when it is probable that future economic benefits associated with the item will flow to the Group and to the Institution and the cost of the item can be measured reliably. After recognition as an asset, an item of, property, plant and equipment are measured at cost less any accumulated depreciation and any accumulated impairment losses.

No depreciation charge has been provided for website development.

Depreciation is provided on a straight-line method so as to write off the depreciable amount of the following assets over their estimated useful lives, as follows:

	<u>Rate</u>
Freehold land	-
Freehold buildings	2%
Leasehold land and buildings	2%
Furniture and fittings	5% - 20%
Office equipment	10% - 20%
Library books	10%
Library software	10%
Building renovation	5%
Lift	10%

Depreciation of an asset begins when it is ready for its intended use.

If there is an indication of a significant change in factors affecting the residual value, useful life or asset consumption pattern since the last annual reporting date, the residual values, depreciation method and useful lives of depreciable assets are reviewed, and adjusted prospectively.

The carrying amounts of items of plant and equipment are derecognised on disposal or when no future economic benefits are expected from their use or disposal. Any gain or loss arising from the derecognition of items of plant and equipment, determined as the difference between the net disposal proceeds, if any, and the carrying amounts of the item, is recognised in profit or loss. Neither the sale proceeds nor any gain on disposal is classified as revenue.

2.5 **INVESTMENT PROPERTIES**

Investment property which is held to earn rentals or for capital appreciation or both, is measured initially at its cost. Transaction costs are included in the initial measurement.

After recognition as investment property, items of investment property whose fair value can be measured reliably without undue cost or effort are measured at fair value at each reporting date with changes in fair value recognised in profit or loss. If a reliable measure of fair value is no longer available without undue cost or effort for an item of investment property measured at fair value, it is thereafter account for as property, plant and equipment in accordance with Section 17 of the MPERS. The carrying amount of the investment property on that date becomes its cost.

Property interests held under operating leases are not classified and accounted for as investment property.

2.6 IMPAIRMENT OF ASSETS, OTHER THAN INVENTORIES AND FINANCIAL ASSETS

At each reporting date, the Group and the Institution assesses whether there is any indication that an asset may be impaired. If any such indication exists, the recoverable amount of the asset is estimated.

When there is an indication that an asset may be impaired but it is not possible to estimate the recoverable amount of the individual asset, the Group and the Institution estimates the recoverable amount of the cash-generating unit to which the asset belongs.

The recoverable amount of an asset and a cash-generating unit is the higher of the fair value less costs to sell and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset.



If the recoverable amount of an asset or a cash-generating unit is less than the carrying amount, an impairment loss is recognised to reduce the carrying amount to its recoverable amount. An impairment loss for a cash-generating unit is firstly allocated to reduce the carrying amount of any goodwill allocated to the cash-generating unit, and then, to the other non-current assets of the unit pro rata on the basis of the carrying amount of each appropriate asset in the cash-generating unit. Impairment loss is recognised immediately in profit or loss, unless the asset is carried at a revalued amount, in which case it is treated as a revaluation decrease.

The recoverable amount is the higher of an asset's or cash-generating unit's fair value less to sell, value in use and zero

An impairment loss recognised in prior periods for an asset or the appropriate assets of a cash-generating unit is reversed when there has been a change in the estimates used to determine the asset's recoverable amount. An impairment loss is reversed to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation, if no impairment loss had been recognised in prior periods. A reversal of an impairment loss is recognised immediately in profit or loss, unless the asset is carried at revalued amount, in which case it is treated as a revaluation increase.

2.7 **FINANCIAL ASSETS**

Financial assets are recognised in the statement of financial position when the Group and the Institution becomes a party to the contractual provisions of the instrument.

On initial recognition, financial assets are measured at transaction price, include transaction costs for financial assets not measured at fair value through profit or loss, unless the arrangement constitutes, in effect, a financing transaction for the counterparty to the arrangement.

After initial recognition, financial assets are classified into one of three categories: financial assets measured at fair value through profit or loss, financial assets that are debt instruments measured at amortised cost, and financial assets that are equity instruments measured at cost less impairment.

i) Financial Assets At Fair Value Through Profit Or Loss

Financial assets are classified as at fair value through profit or loss when the financial assets are within the scope of Section 12 of the MPERS or if the financial assets are publicly traded or their fair value can otherwise be measured reliably without undue cost or effort.

Changes in fair value are recognised in profit or loss.

If a reliable measure of fair value is no longer available for an equity instrument that is not publicly traded but is measured at fair value through profit or loss, its fair value at the last date that instrument was reliably measurable is treated as the cost of the instrument, and it is measured at this cost amount less impairment until a reliable measure of fair value becomes available.

ii) Financial Assets That Are Debt Instruments Measured At Amortised Cost

After initial recognition, debt instruments are measured at amortised cost using the effective interest method. Debt instruments that are classified as current assets are measured at the undiscounted amount of the cash or other consideration expected to be received.

Effective interest method is a method of calculating the amortised cost of financial assets and of allocating the interest income over the relevant period. The effective interest rate is the rate that exactly discounts estimate future cash receipts through the expected life of the financial assets or, when appropriate, a shorter period, to the carrying amount of the financial assets.

iii) Financial Assets That Are Equity Instruments Measured At Cost Less Impairment

Equity instruments that are not publicly traded and whose fair value cannot otherwise be measured reliably without undue cost or effort, and contracts linked to such instruments that, if exercised, will result in delivery of such instruments, are measured at cost less impairment.

iv) Impairment Of Financial Assets

At the end of each reporting period, the Group and the Institution assesses whether there is any objective evidence that financial assets that are measured at cost or amortised cost, are impaired.

Objective evidence could include:



- significant financial difficulty of the issuer; or
- a breach of contract; or
- the lender granting to the borrower a concession that the lender would not otherwise consider; or
- it becoming probable that the borrower will enter bankruptcy or other financial reorganisation; or
- observable data indicating that there is a measurable decrease in the estimated future cash flows from the financial assets since the initial recognition of those assets.

For certain category of financial assets, such as trade receivables, if it is determined that no objective evidence of impairment exists for an individually assessed financial asset, whether significant or not, the assets are included in a group with similar credit risk characteristics and collectively assessed for impairment.

Impairment losses, in respect of financial assets measured at amortised cost, are measured as the differences between the assets' carrying amounts and the present values of their estimated cash flows discounted at the assets' original effective interest rate.

If there is objective evidence that impairment losses have been incurred on financial assets measured at cost less impairment, the amount of impairment losses are measured as the difference between the asset's carrying amount and the best estimate of the amount that the Group and the Institution would receive for the asset if it were to be sold at the reporting date.

The carrying amounts of the financial assets are reduced directly, except for the carrying amounts of trade receivables which are reduced through the use of an allowance account. Any impairment loss is recognised in profit or loss immediately. If, in subsequent period, the amount of an impairment loss decreases, the previously recognised impairment losses are reversed directly, except for the amounts related to trade receivables which are reversed to write back the amount previously provided in the allowance account. The reversal is recognised in profit or loss immediately.

v) Derecognition Of Financial Assets

Financial assets are derecognised when the contractual rights to the cash flows from the financial assets expire, or are settled, or the Group and the Institution transfers to another party substantially all of the risks and rewards of ownership of the financial assets.

On derecognition of financial assets in their entirety, the differences between the carrying amounts and the sum of the consideration received and any cumulative gains or losses are recognised in profit or loss in the period of the transfer.

2.8 SUBSCRIPTION IN ARREARS

Subscription in arrears of one year and more and where, in the opinion of the Council, are no longer recoverable from its members are written off to the statements of income and expenditure.

2.9 CASH AND CASH EQUIVALENTS

Cash and cash equivalents in the statement of cash flows comprise cash and bank balances, short-term bank deposits and other short-term, highly liquid investments that have a short maturity of three months or less from the date of acquisition, net of bank overdrafts.

2.10 CAPITAL RESERVE FUND

Fund raised from members for the purchase of property, plant and equipment are capitalised as Capital Reserve Fund.

2.11 **LIBRARY FUND**

Enrolment fee received from corporate members for library membership of the Institution and donation received from members or non-members for capital expenditure of the library are capitalised as Library Fund.

2.12 BUILDING FUND

Funds and donations received from members for the purchase of Wisma IEM are capitalised in Building Fund. A separate bank account has been kept for the fund.



2.13 STEM FUND

STEM stands for Science, Technologies Engineer Malaysia. It is a fund collected from members for student.

2.14 LIABILITIES AND EQUITY

i) Classification Of Liabilities And Equity

Financial liabilities and equity instruments are classified in accordance with the substance of the contractual arrangement, not merely its legal form, and in accordance with the definitions of a financial liability and an equity instrument.

2.15 **PROVISIONS**

A provision is recognised when the Group and the Institution has an obligation at the reporting date as a result of a past event, it is probable that a transfer of economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

The risks and uncertainties are taken into account in reaching the best estimate of a provision. When the effect of the time value of money is material, the amount recognised in respect of the provision is the present value of the expenditure expected to be required to settle the obligation.

2.16 **LEASES**

Operating Leases

A lease is classified as an operating lease if it does not transfer substantially all the risks and rewards incidental to ownership. Lease payments under operating leases are recognised as an expense on a straight-line basis over the lease term.

2.17 FINANCIAL LIABILITIES

Financial liabilities are recognised in the statement of financial position when the Group and the Institution becomes a party to the contractual provisions of the instrument.

On initial recognition, financial liabilities are measured at transaction price, include transaction costs for financial liabilities not measured at fair value through profit or loss, unless the arrangement constitutes, in effect, a financing transaction for the Group and the Institution to the arrangement.

After initial recognition, financial liabilities are classified into one of three categories: financial liabilities measured at fair value through profit or loss, financial liabilities measured at amortised cost, or loan commitments measured at cost less impairment.

i) Financial Liabilities Measured At Fair Value Through Profit Or Loss

Financial liabilities are classified as at fair value through profit or loss when the financial liabilities are within the scope of Section 12 of the MPERS or if the financial liabilities are publicly traded or their fair value can otherwise be measured reliably without undue cost or effort.

If a reliable measure of fair value is no longer available for an equity instrument that is not publicly traded but is measured at fair value through profit or loss, its fair value at the last date that instrument was reliably measurable is treated as the cost of the instrument, and it is measured at this cost amount less impairment until a reliable measure of fair value becomes available.

ii) Financial Liabilities Measured At Amortised Cost

After initial recognition, financial liabilities other than financial liabilities at fair value through profit or loss are measured at amortised cost using the effective interest method. Gains or losses are recognised in profit or loss when the financial liabilities are derecognised or impaired.

Effective interest method is a method of calculating the amortised cost of financial liabilities and of allocating the interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimate future cash payments through the expected life of the financial liabilities or, when appropriate, a shorter period, to the carrying amount of the financial liabilities.

iii) Loan Commitments Measured At Cost Less Impairment

Commitments to receive loan that meet the conditions of Section 11 of the MPERS are measured at cost less impairment.



iv) Derecognition Of Financial Liabilities

Financial liabilities are derecognised when the obligation specified in the contract is discharged, cancelled or expires.

Any difference between the carrying amounts of the financial liabilities derecognised and the consideration paid is recognised in profit or loss.

2.18 **REVENUE**

i) Member's subscription fee

Member's subscription fee is payable annually at the beginning of the financial year. Only that subscription which is attributable to the current financial year is recognised as income. Subscription relating to periods beyond the current financial year is taken up in the statements of financial position as subscription in advance under current liabilities. Subscription is payable in full irrespective of the date of resignation of members during the financial year.

ii) Advertisement in Bulletin / Journal

Advertisement income receivable for the placement of advertisement in bulletin / journal published by the Institution is recognised when the right to receive payment is established.

iii) Rental income

Rental income is recognised when the right to receive payment is established.

iv) Credit cards commission

Credit cards commission from the banks are recognised when the right to receive payment is established.

v) Interest income

Interest income is recognised on accruals basis using the effective interest methods.

vi) Dividend income

Dividend income is recognised when the right to received payments is established.

2.19 **EMPLOYMENT BENEFITS**

i) Short-Term Employment Benefits

Short-term employment benefits, such as wages, salaries and other benefits, are recognised at the undiscounted amount as a liability and an expense when the employees have rendered services to the Group and the Institution.

The expected cost of accumulating compensated absences are recognised when the employees render services that increase their entitlement to future compensated absences. The expected cost of non-accumulating compensated absences, such as sick and medical leaves, are recognised when the absences occur.

The expected cost of accumulating compensated absences are measured at the undiscounted additional amount expected to be paid as a result of the unused entitlement that has accumulated at the end of the reporting period.

The expected cost of profit-sharing and bonus payments are recognised when the Group and the Institution has a present legal or constructive obligation to make such payments as a result of past events and a reliable estimate of the obligation can be made. A present obligation exists when the Group and the Institution has no realistic alternative but to make the payments.

ii) Defined Contribution Plan

Contributions payable to the defined contribution plan are recognised as a liability and an expense when the employees have rendered services to the Group and the Institution.



2.20 **INCOME TAX**

Tax expense is recognised in profit or loss, except that a change attributable to an item of income or expense recognised as other comprehensive income is also recognised in other comprehensive income.

Tax payable on taxable profit for current and past periods is recognised as a current tax liability to the extent unpaid. If the amount paid in respect of the current and past periods exceeds the amount payable for those periods, the excess is recognised as a current tax asset.

Current tax assets and liabilities are measured at the amounts expected to be paid or recovered, using the tax rates and laws that have been enacted or substantially enacted by the reporting date.

Current tax liabilities and assets are offset if, and only if the Group and the Institution has a legally enforceable right to set off the amounts and plan either to settle on a net basis, or to realise the asset and settle the liability simultaneously.

Deferred tax is provided in full on temporary differences which are the differences between the carrying amounts in the financial statements and the corresponding tax base of an asset or liability at the end of the reporting period.

Deferred tax liabilities are recognised for all taxable temporary differences that are expected to increase taxable profit in the future. Deferred tax assets are recognised for all deductible temporary differences that are expected to reduce taxable profit in the future and the carry forward of unused tax losses and unused tax credits.

Deferred tax liabilities and assets are not recognised in respect of the temporary differences associated with the initial recognition of an asset or a liability in a transaction that is not a business combination and at the time of the transactions, affects neither accounting profit nor taxable profit. Deferred tax liabilities are also not recognised for temporary difference associated with the initial recognition of goodwill.

Deferred tax liabilities and assets reflect the tax consequences that would follow from the manner in which the Group and the Institution expects to recover or settle the carrying amounts of their assets and liabilities and are measured at the tax rates and laws that are expected to apply to the period when the asset is realised or the liability is settled, based on tax rates that have been enacted or substantially enacted by the reporting date.

3. CRITICAL ACCOUNTING JUDGEMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

3.1 CRITICAL JUDGEMENTS IN APPLYING THE ACCOUNTING POLICIES

The judgements, apart from those involving estimations described below, that management has made in the process of applying the accounting policies and that have the most significant effect on the amounts recognised in the financial statements, other than those disclosed in the Notes, are as follows:

i) Contingent Rental

The Group and the Institution has entered into tenancy agreements for the lease of land and staff housing, which contain contingent rental features based on predetermined revenue thresholds. The Group and Institution has determined that these contingent rental features are not embedded derivatives to be separately accounted for due to the economic characteristics and risks of these contingent rental features are closely related to the economic characteristics and risks of the underlying tenancy agreements. There are no leverage features contained within these contingent rental features.

3.2 KEY SOURCES OF ESTIMATION UNCERTAINTY

The key assumptions concerning the future, and other key sources of estimation uncertainty at the reporting date, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next year, other than those disclosed in the Notes, are as follows:

i) Depreciation Of Property, Plant And Equipment

The estimates for the residual values, useful lives and related depreciation charges for the property, plant and equipment are based on commercial factors which could change significantly as a result of technical innovations and competitors' actions in response to the market conditions. The Group and the Institution anticipates that the residual values of its property, plant and equipment will be insignificant. As a result, residual values are not being taken into consideration for the computation of the depreciable amount. Changes in the expected level of usage and technological development



could impact the economic useful lives and the residual values of these assets, therefore future depreciation charges could be revised.

ii) Impairment Of Goodwill On Consolidation

The Group determines whether goodwill on consolidation is impaired at least on an annual basis. This requires an estimation of the value-in-use of the subsidiaries to which goodwill is allocated. Estimating a value-in-use amount requires management to make an estimate of the expected future cash flows from the subsidiaries and also to choose a suitable discount rate in order to calculate the present value of those cash flows.

The calculation of the value-in-use amount is most sensitive to the following assumptions:

- (a) Budgeted gross margin. Gross margins are based on historical averages achieved in the preceding three (3) financial years, adjusted to reflect anticipated efficiency and productivity improvements.
- (b) Growth rates. The forecasted growth rates are based on published industry data and do not exceed the sustainable long-term average growth rate for the relevant industries.
- (c) Pre-tax discount rates. The discount rates reflect current market assessment of specific risks of the subsidiaries. These discount rates have consistently been used by management as the benchmark rates in project appraisals of the subsidiaries.

iii) Income Taxes

There are certain transactions and computations for which the ultimate tax determination may be different from the initial estimate. The Group and the Institution recognises tax liabilities based on its understanding of the prevailing tax laws and estimates of whether such taxes will be due in the ordinary course of business. Where the final outcome of these matters is different from the amounts that were initially recognised, such difference will impact the income tax expense and deferred tax balances in the year in which such determination is made.

iv) Impairment of Receivables

An impairment loss is recognised when there is objective evidence that a financial asset is impaired. Management specifically reviews its loans and receivables financial assets and analyses historical bad debts, customer concentrations, customer creditworthiness, current economic trends and changes in the customer payment terms when making a judgement to evaluate the adequacy of the allowance for impairment losses. Where there is objective evidence of impairment, the amount and timing of future cash flows are estimated based on historical loss experience for assets with similar credit risk characteristics. If the expectation is different from the estimation, such difference will impact the carrying value of receivables.

4. PROPERTY, PLANT AND EQUIPMENT

	As at 1.1.2021 RM	Additions RM	Written off RM	Disposal RM	As at 31.12.2021 RM
GROUP COST					
Freehold land	330,279	-	-	-	330,279
Freehold buildings	1,991,999	-	-	-	1,991,999
Leasehold land and buildings	15,775,761	-	-	-	15,775,761
Furniture and fittings	346,901	2,563	(15,261)	-	334,203
Office equipment	920,101	14,286	(241,509)	(3,975)	688,903
Library books	975	-	(975)	-	-
Library software	42,077	-	-	-	42,077
Building renovation	1,757,165	620	(32,790)	-	1,724,995
Lift	231,650	-	-	-	231,650
Web development	80,800	-	(80,800)	-	-
	21,477,708	17,469	(371,335)	(3,975)	21,119,867



	As at 1.1.2021 RM	Depreciation charge for the year RM	Written off RM	Disposal RM	As at 31.12.2021 RM
GROUP ACCUMULATED					
DEPRECIATION Freehold lend					
Freehold land	-	-	-	-	-
Freehold buildings	161,160	39,840	-	-	201,000
Leasehold land and buildings	4,401,452	315,515	-	-	4,716,967
Furniture and fittings	128,634	26,727	(12,699)	-	142,662
Office equipment	606,931	25,924	(228,387)	(3,578)	400,890
Library books	975	-	(975)	-	-
Library software	29,452	4,207	-	-	33,659
Building renovation	636,507	102,514	(32,169)	-	706,852
Lift	231,650	-	-	-	231,650
Web development	-	-	-	-	-
	6,196,761	514,727	(274,230)	(3,578)	6,433,680

	Group	
	2021	2020
	RM	RM
CARRYING AMOUNTS		
Freehold land	330,279	330,279
Freehold buildings	1,790,999	1,830,839
Leasehold land and buildings	11,058,794	11,374,309
Furniture and fittings	191,541	218,267
Office equipment	288,013	313,170
Library books	-	-
Library software	8,418	12,625
Building renovation	1,018,143	1,120,658
Lift	-	-
Web development	-	80,800
	14,686,187	15,280,947

- (i) As at 31 December 2021, the document of title in respect of properties with an aggregate carrying amount of RM366,806 (2020: RM374,718) has yet to be issued by the authorities.
- (ii) Included in leasehold land and buildings are assets with a total carrying amount of RM10,217,850 (2020: RM10,502,661) which have been pledged to licensed banks as security for term loan facilities granted to the Institution as disclosed in Notes 18 and 19 to the financial statements.
- (iii) During the financial year, the Group purchased plant and equipment amounting to RM17,469 (2020: RM369,005) by cash.
- (iv) Depreciation charge of the Group for the previous financial year was RM601,886.
- (v) Fully depreciated property, plant and equipment which are still in use are as follows:

	Gro	oup
	2021	2020
	RM	RM
Leasehold land and buildings	76,931	76,931
Furniture and fittings	16,093	2,805
Office equipment	63,270	57,240
Library books	-	975
Building renovation	33,266	63,841
Lift	231,650	231,650
	421,210	433,442



	As at 1.1.2021 RM	Additions RM	Written off RM	As at 31.12.2021 RM
INSTITUTION COST				
Freehold land	330,279	-	-	330,279
Freehold buildings	1,991,999	-	-	1,991,999
Leasehold land and buildings	15,775,761	-	-	15,775,761
Furniture and fittings	326,344	-	(2,805)	323,539
Office equipment	662,460	7,490	(12,890)	657,060
Library books	975	-	(975)	-
Library software	42,077	-	-	42,077
Building renovation	1,635,959	-	(30,575)	1,605,384
Lift	231,650	-	-	231,650
	20,997,504	7,490	(47,245)	20,957,749

	As at 1.1.2021 RM	Depreciation charge for the year RM	Written off RM	As at 31.12.2021 RM
INSTITUTION ACCUMULATED DEPRECIATION				
Freehold land	-	-	-	-
Freehold buildings	161,160	39,840	-	201,000
Leasehold land and buildings	4,401,452	315,515	-	4,716,967
Furniture and fittings	115,125	25,684	(2,805)	138,004
Office equipment	378,129	15,791	(12,890)	381,030
Library books	975	-	(975)	-
Library software	29,452	4,207	-	33,659
Building renovation	559,140	78,606	(30,575)	607,171
Lift	231,650	-	-	231,650
	5,877,083	479,643	(47,245)	6,309,481

	Insti	tution
	2021	2020
	RM	RM
CARRYING AMOUNTS		
Freehold land	330,279	330,279
Freehold buildings	1,790,999	1,830,839
Leasehold land and buildings	11,058,794	11,374,309
Furniture and fittings	185,535	211,219
Office equipment	276,030	284,331
Library books	-	-
Library software	8,418	12,625
Building renovation	998,213	1,076,819
Lift	-	-
	14,648,268	15,120,421

- (i) As at 31 December 2021, the document of title in respect of properties with an aggregate carrying amount of RM366,806 (2020: RM374,718) has yet to be issued by the authorities.
- (ii) Included in property, plant and equipment is leasehold land and buildings are assets with a total carrying amount of RM10,217,850 (2020: RM10,502,661) which have been pledged to licensed banks as security for term loan facilities granted to the Institution as disclosed in Notes 18 and 19 to the financial statements.
- (iii) During the financial year, the Institution purchased plant and equipment amounting to RM7,490 (2020: RM366,505) by cash.
- (iv) Depreciation charge of the Institution for the previous financial year was RM564,129.
- (v) Fully depreciated property, plant and equipment which are still in use are as follows:



	Instit	ution
	2021	2020
	RM	RM
Leasehold land and buildings	76,931	76,931
Furniture and fittings	16,093	2,805
Office equipment	63,270	57,240
Library books	-	975
Building renovation	33,266	63,841
Lift	231,650	231,650
	421,210	433,442

5. INVESTMENT PROPERTIES

	Group and Institution	
	2021	2020
	RM	RM
Leasehold land and buildings - at cost		
At beginning / end of the financial year	3,886,559	3,886,559
Accumulated depreciation		
At beginning of the financial year	463,700	385,968
Depreciation charge for the financial year	77,731	77,732
At end of the financial year	541,431	463,700
Carrying amount		
At end of the financial year	3,345,128	3,422,859

- (i) Investment properties is carried at cost as the Institution does not engage an independent valuer because undue cost may be required.
- (ii) As at 31 December 2021, the document of title in respect of properties with an aggregate carrying amount of RM37,073 (2020: RM37,873) has yet to be issued by the authorities.

6. INVESTMENT IN SUBSIDIARIES

	Instit	ution
	2021	2020
	RM	RM
Unquoted shares in Malaysia - at cost	200,000	200,000

Details of the subsidiaries are as follows:

Name	Country of		nterest (%)	Principal Activity
Name	incorporation	2021	2020	Principal Activity
IEM Training Centre Sdn. Bhd.	Malaysia	100	100	Organising conferences, seminars and trainings
IEM Academy Sdn. Bhd.	Malaysia	100	100	Provide competency and certification training programmes

7. DEFERRED TAX ASSET

	Gro	Group		ution
	2021	2020	2021	2020
	RM	RM	RM	RM
At beginning of the financial year	930,231	930,231	-	-
Amount recognised in income and expenditure (Note 26)	(223,694)	-	-	-
At end of the financial year	706,537	930,231	-	-

Deferred tax liability of the Institution represents taxable temporary differences between net book value and tax written down value of plant and equipment.

Deferred tax assets have not been recognised in respect of the following items:



	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
Other temporary differences	706,537	930,231	-	-

Deferred tax assets have not been recognised in respect of these items as they may not have sufficient taxable profit to be used to offset.

8. RECEIVABLES

	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
Other Receivables	1,185,150	1,433,902	994,918	1,223,233
Less: Accumulated Impairment losses	(65,748)	(65,748)	(58,498)	(58,498)
	1,119,402	1,368,154	936,420	1,164,735
Subscription in arrears	437,888	434,686	437,888	434,686
Deposits	92,342	89,124	63,492	57,274
Prepayments	208,377	131,682	208,377	131,682
Amount due by a related company	205,143	-	-	-
Amount due by subsidiaries	-	-	-	4,103
	2,063,152	2,023,646	1,646,177	1,792,480

The movement of accumulated impairment losses are as follow:

As beginning of the financial year	65,748	121,707	58,498	58,498
Less: Reversal during the financial year	-	(55,959)	-	-
	65,748	65,748	58,498	58,498

Other receivables are unsecured, interest-free and are receivable on demand.

The amount due by a related company represents unsecured, interest-free and repayable on demand and it represents advances.

The amount due by subsidiaries represents unsecured, interest-free and repayable on demand and it represents advances.

9. DEPOSITS, CASH AND BANK BALANCES

	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
Maturities more than 3 months	3,339,617	3,267,437	1,572,824	1,384,405
Maturities less than 3 months	1,492,270	1,418,362	1,211,752	1,191,732
Fixed deposits with license banks	4,831,887	4,685,799	2,784,576	2,576,137
Cash in hand	3,177	3,271	3,177	3,177
Cash at banks	3,172,669	2,766,755	2,998,176	2,054,253
	8,007,733	7,455,825	5,785,929	4,633,567

Included in fixed deposits with licensed banks of the Institution is RM284,460 (2020: RM279,671) held as deposits for arbitration cases. The amount was deposited with licensed banks as fixed deposit to earn interest.

The effective interest rate of the fixed deposit ranges from 1.50% to 2.85% (2020: 1.70% to 2.85%) per annum. The maturity of deposits as at the end of the financial year was between 1 month to 12 months (2020: 1 month to 12 months).

For the purpose of statement of cash flows, cash and cash equivalents comprise:



	Group		Institution	
	2021 RM	2020 RM	2021 RM	2020 RM
Fixed deposits with licensed bank with maturities less than 3 months	1,492,270	1,418,362	1,211,752	1,191,732
Cash and bank balances	3,175,846	2,770,026	3,001,353	2,057,430
	4,668,116	4,188,388	4,213,105	3,249,152

10. ACCUMULATED FUND

	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
At beginning of the financial year	10,463,762	9,462,845	7,245,452	7,554,846
(Deficit) / surplus for the financial year	(314,370)	1,327,170	358,144	16,859
	10,149,392	10,790,015	7,603,596	7,571,705
TRANSFER TO:				
- Capital reserve fund	(55,312)	(176,930)	(50,693)	(176,930)
- Activities fund	-	(67,331)	-	(67,331)
- Library fund	-	(18,450)	32,130	(18,450)
- Building fund	-	(56,380)	(30,922)	(56,380)
- Stem fund	-	(7,162)	(5,827)	(7,162)
At end of the financial year	10,094,080	10,463,762	7,548,284	7,245,452

11. CAPITAL RESERVE FUND

	Group and Institution	
	2021	2020
	RM	RM
At beginning of the financial year	3,630,888	3,663,686
Repayment of term loan by Sabah branch (Term loan)	-	152,500
Overtaken of repayment of term in prior years	-	(259,600)
Drawdown of repayment	-	(102,628)
Transfer from accumulated fund	-	176,930
At end of the financial year	3,630,888	3,630,888

12. CAPITAL CONTRIBUTION RESERVE

	Group and Institution	
	2021	2020
	RM	RM
At beginning of the financial year	4,413,414	4,262,354
Entrance and transfer fees	49,701	151,060
At end of the financial year	4,463,115	4,413,414

13. ACTIVITIES FUND

	Group and Institution	
	2021	2020
	RM	RM
At beginning of the financial year	67,331	-
Transfer from accumulated fund	-	67,331
At end of the financial year	67,331	67,331

14. LIBRARY FUND

	Group and Institution	
	2021	2020
	RM	RM
At beginning of the financial year	765,898	747,448
Transfer from accumulated fund	(32,130)	18,450
At end of the financial year	733,768	765,898



15. BUILDING FUND

	Group and Institution	
	2021 2020	
	RM	RM
At beginning of the financial year	3,653,633	3,597,253
Transfer from accumulated fund	30,922	56,380
At end of the financial year	3,684,555	3,653,633

16. STEM FUND

	Group and Institution	
	2021	2020
	RM	RM
At beginning of the financial year	26,975	19,813
Transfer from accumulated fund	5,827	7,162
At end of the financial year	32,802	26,975

17. PAYABLES

	Group		Instit	ution
	2021	2020	2021	2020
	RM	RM	RM	RM
Subscription in advance	1,925,185	1,986,215	1,925,185	1,986,215
Trade payables	105,934	98,047	105,934	80,111
Other payables	1,990,909	1,594,622	1,824,233	1,600,385
Accruals	266,827	85,486	257,827	69,420
Deposit received	217,366	139,525	217,366	139,525
Advance payment received	5,600	73,550	5,600	73,550
Deferred revenue	-	143,326	-	-
Amount due to a related party	205,143	-	-	-
Amount due to IEM Education Fund	35,727	125,158	35,727	125,158
Amount due to subsidiaries	-	-	909	-
	4,752,691	4,245,929	4,372,781	4,074,364

	Group		Institution		
	2021 2020		2021	2020	
	RM	RM	RM	RM	
Amount due to IEM Education Fund	160,277	249,708	160,277	249,708	
Less: Amortised cost adjustment	(124,550)	(124,550)	(124,550)	(124,550)	
	35,727	125,158	35,727	125,158	

The movement of amortised cost adjustment are as follow:

	Group		Instit	ution
	2021 2020		2021	2020
	RM	RM	RM	RM
At beginning / end of the financial year	124,550	124,550	124,550	124,550

18. TERM LOAN

	Group and	Institution
	2021	2020
	RM	RM
CURRENT		
Repayable within one year	105,646	109,881
NON-CURRENT		
Repayable between one to two years	111,576	115,980
Repayable between two to five years	373,766	388,040
Repayable more than five years	495,738	575,096
	981,080	1,079,116
Total term loan	1,086,726	1,188,997



Details of the repayment terms are as follows:

Term Loan	Monthly Installment RM	Number of Monthly Installment	Date of Commencement of Repayment	2021 RM	2020 RM
1	1,217	240	January 2010	145,957	153,420
2	13,357	180	September 2014	940,769	1,035,577
				1,086,726	1,188,997

The bank borrowings are is secured by way of:

Fixed charges over Institution's properties (Note 4), and

The term loans bear interest rates range from 4.00% to 5.76% (2020: 4.10% to 5.67%) per annum.

19. BANK OVERDRAFT

Group and	Institution	
2021	2020	
RM	RM	
5,252	102,375	

The bank borrowings are is secured by way of:

Fixed charges over Institution's properties (Note 4), and

The bank overdraft bear interest rates range at 1.00% (2020: 1.00%) per annum.

20. PERSONNEL EMOLUMENTS AND BENEFITS

	Group		Instit	ution
	2021	2020	2021	2020
	RM	RM	RM	RM
THESE REPRESENT EXPENSES INCURRED IN RELATION TO:				
Salaries and wages	2,240,839	2,179,322	1,934,657	1,858,876
Staff allowance and ex-gratia	214,587	227,948	214,587	227,948
Overtime	13,822	23,463	13,822	23,463
EPF and Socso contributions	331,638	341,502	285,495	290,194
Medical expenses	8,184	5,464	7,420	4,481
Retrenchment cost	47,187	-	-	-
Staff insurance	13,003	24,654	13,003	12,086
Staff training	-	4,315	-	4,315
Long service award	1,500	11,000	1,500	11,000
Staff Incentive	10,357	-	10,357	-
Staff reimbursement	1,200	2,500	1,200	2,500
Others	-	5,257	-	5,257
Secretarial management services	(142,671)	-	(156,671)	(54,000)
Perkeso subsidy	(72,000)	-	(72,000)	(113,400)
	2,667,646	2,825,425	2,253,370	2,272,720

21. ADMINISTRATIVE EXPENSES

	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
THESE REPRESENT EXPENSES INCURRED IN RELATION TO:				
Advertisement	4,200	2,520	-	1,320
Accountancy fee	-	45,792	-	-
Auditors' remuneration	37,000	36,800	28,000	28,000
Annual general meeting	1,797	4,847	1,797	4,847
Bad debts written off	74,175	32,257	-	-
Bank charges	24,282	14,257	23,556	13,620



Balloting expenses	-	21,648	-	21,648
Commissions	-	15,968	-	-
Credit card charges	40,146	40,711	40,146	40,711
Donation	5,531	313	5,146	-
Entertainment	5,000	-	-	-
Fine and penalty	557	60	505	7
GST expense	2,729	-	-	-
Holding tax	-	375	-	-
Insurance	24,520	19,692	15,456	19,692
Impairment of loss on receivables	58,553	(15,233)	58,553	-
Ipay charges	-	1,928	-	-
License fee	1,050	460	-	-
Lucky draw expenses	5,480	4,586	5,480	4,586
Mailing services	2,265	25,062	2,265	26,081
Maintenance	8,082	18,169	-	-
Meeting allowance	-	(200)	-	-
Miscellaneous	15,570	-	-	-
Online payment	(833)	-	-	-
Overdraft charges	18,253	18,557	18,253	18,557
Office printing and stationery	29,662	44,709	23,860	41,605
Office equipment maintenance	-	-	8,082	18,169
Office expenses	92,647	94,318	91,111	91,889
Processing fee	1,101	-	-	-
Professional, legal fee and tax service fees	36,596	13,345	29,998	3,498
Postages	14,756	130,941	13,748	129,083
Phone allowance	-	2,170	-	-
Property, plant and equipment written off	97,105	14,553	-	14,553
Rental of office equipment	33,700	51,100	33,700	39,000
Refreshment	44	570	-	-
Secretaries fee	17,590	16,404	-	-
Secretariat fee	1,808	-	-	-
Service charge	2,209	33	1,852	-
Stamp duty	100	60	60	40
SST expenses	1,776	1,809	-	1,740
Subscription fee	5,666	1,428	4,747	1,428
Telephone, fax and internet	51,652	51,219	45,233	44,287
Training	513	-	-	-
Transport and travelling	28,732	12,965	28,048	9,580
Utilities	8,302	-	-	-
Upkeep of furniture and fittings	-	1,050	-	-
Upkeep of office	7,227	6,646	-	-
Website maintenance	82,186	125,039	81,623	86,018
	841,729	856,928	561,219	659,959

The number of full time employees of the Group (excluding council members) as at the end of the financial year was 44 (2020: 47).

The number of full time employees of the Institution (excluding council members) as at the end of the financial year was 42 (2020: 40).

22. BRANCH SUBSIDIES

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT SUBSIDIES GIVEN TO THE FOLLOWING		
BRANCHES:		
Negeri Sembilan branch	29,693	28,654
Southern branch	64,520	55,218
Perak branch	43,721	39,578
Penang branch	46,800	42,792
Malacca branch	20,970	19,635



Sarawak branch	95,541	82,735
Sabah branch	59,094	54,128
Miri branch	13,524	12,965
Kedah / Perlis branch	27,073	26,124
Kelantan branch	13,517	11,391
Terengganu branch	13,923	13,493
Pahang branch	17,544	16,708
Branch development fund	126,000	126,000
	571,920	529,421

These regional branches are separately registered with the Registrar of Societies, and file their annual return including the audited financial statements separately with the Registrar of Societies.

23. INTER-SOCIETY ACTIVITIES

	Group and Institution	
	2021	2020
	RM	RM
THESE REPRESENT SUBSCRIPTIONS INCURRED IN RELATION TO:		
Balai Ikhtisas Malaysia (BIM)	1,500	1,500
World Federation of Engineering Organisation (WFEO)	13,716	12,685
ASEAN Federation of Engineering Organisation (AFEO)	811	818
Federation of Engineering Institutions of Asia and the Pacific (FEIAP)	3,311	3,423
Building Management Association of Malaysia (BMAM)	500	500
Malaysia Green Building Confederation (MGBC)	239	212
Eastern Regional Organization for Planning and Human Settlements (EAROPH)	305	-
Malaysian Service Providers Confederation (MSPC)	-	500
SIRIM Technical Library	530	2,030
	20,912	21,668

24. SURPLUS FROM INSTITUTIONAL SERVICES

		Gro	oup	Instit	ution
		2021	2020	2021	2020
	Note	RM	RM	RM	RM
THESE REPRESENT INCOME					
FROM THE FOLLOWING:					
Council		(4,758)	(12,673)	(4,758)	(12,673)
Executive committee		2,999	(4,830)	2,999	(4,830)
Standing committee on:					
- Activities committee	27	216,382	122,886	216,382	122,886
- Admissions and practical training committee	28	74,531	82,400	74,531	59,900
- Examinations and qualifications committee	29	(34,765)	(14,330)	(34,765)	(14,330)
- Finance		(5,159)	92,518	(5,159)	(7,274)
- Professional practice		24,353	36,516	24,353	36,516
- Information and publications committee	30	85,470	71,389	85,470	71,389
- Welfare and service matters committee	31	59,188	51,949	59,188	51,949
- Corporate affairs committee	32	849	(2,287)	849	(2,287)
Technical divisions	33	343,461	181,583	343,461	181,583
Library committee		(5,874)	(85,598)	(5,874)	(85,598)
Young engineer section	34	45,517	6,820	45,517	6,820
Awards committee		(3,631)	(132)	(3,631)	(132)
Woman Engineers section		(13,192)	(1,491)	(13,192)	(1,491)
Ad Hoc Committee		141	385	141	385
		785,512	525,105	785,512	402,813



25. DEFICIT FROM RENTAL INCOME

		Group and	Institution
		2021	2020
	Note	RM	RM
RENTAL INCOME:			
- Bangunan Ingenieur		181,247	224,684
- Wisma IEM		307,594	292,236
- Sabah Training Centre		303,600	303,600
		792,441	820,520
LESS EXPENDITURE:			
- Bangunan Ingenieur	35	205,405	185,746
- Wisma IEM	36	185,672	248,224
- Sabah Training Centre	37	43,500	44,000
- Depreciation			
- property, plant and equipment		433,961	467,238
- investment properties		77,731	77,732
- Finance cost		62,190	60,835
		(1,008,459)	(1,083,775)
		(216,018)	(263,255)

26. INCOME TAX EXPENSE

	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
Current year tax provision	-	289,873	-	-
(Over) / under provision in previous year	(248,126)	247,090	-	108,859
Deferred tax (Note 7)	223,694	-	-	-
	(24,432)	536,963	-	108,859

For tax purposes, the Institution is treated as a "Trade Association" under Section 53(3) of the Income Tax Act, 1967 under which its income is taxed at scale rates.

A reconciliation of income tax expense applicable to (deficit) / surplus before tax at the statutory income tax rate to income tax expense at the effective income tax rate of the Group and of the Institution is as follows:

	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
(Deficit) / surplus before tax	(338,802)	1,388,748	358,144	(23,414)
Tax at Malaysian Statutory income tax rate of 24% (2020: 24%)	(81,312)	333,300	85,955	(5,620)
Tax effect on changes in tax rate	-	(53,437)	-	-
Non-taxable income	(2,286)	(20,207)	-	-
Expenses not deductible for tax	37,982	218,847	-	194,803
Deferred tax expense arising from origination and reversal of temporary differences not recognised during the financial year	269,310	(188,630)	(85,955)	(189,183)
Under provision in previous years	(248,126)	247,090	-	108,859
Tax expense for the financial year	(24,432)	536,963	-	108,859



27. ACTIVITIES COMMITTEE

	Group and Institution		
	2021	2020	
	RM	RM	
THESE REPRESENT SURPLUS FROM THE FOLLOWING:			
Annual dinner	(15,539)	2,841	
Souvenir costs	935	2,576	
Seminar / courses / materials	(45)	(304)	
Technical talks	226,770	119,925	
Others	4,261	(2,152)	
	216,382	122,886	

28. ADMISSIONS AND PRACTICAL TRAINING COMMITTEE

	Group		Institution	
	2021	2020	2021	2020
	RM	RM	RM	RM
THESE REPRESENT SURPLUS FROM				
THE FOLLOWING:				
Meeting	-	(1,476)	-	(1,476)
Printing / circulars	-	300	-	300
Miscellaneous	-	(430)	-	(430)
Membership drive	(3,005)	5,800	(3,005)	5,800
CPD income	65,400	67,200	65,400	44,700
CPD expenses	(10,747)	(8,850)	(10,747)	(8,850)
ECD workshop/course	13,302	-	13,302	-
Share of AER life membership	2,330	-	2,330	-
Course on structured training	11,111	-	11,111	-
Incentive for university	-	-	-	-
Others	(3,860)	19,856	(3,860)	19,856
	74,531	82,400	74,531	59,900

29. EXAMINATIONS AND QUALIFICATIONS COMMITTEE

	Group and Institution	
	2021	2020
	RM	RM
THESE REPRESENT DEFICIT FROM THE FOLLOWING:		
Professional interview fee	40,550	47,680
Professional interviewers' fee	(85,298)	(98,400)
PI workshop	11,268	46,646
Meeting	(378)	(623)
Other expenses	(907)	(9,633)
	(34,765)	(14,330)

30. INFORMATION AND PUBLICATIONS COMMITTEE

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT SURPLUS FROM THE FOLLOWING:		
Advertisements in bulletin	84,000	72,000
Meeting	(30)	(611)
Sale of the travel story book	-	-
Sale of Bamboo Books	-	-
Others	1,500	-
	85,470	71,389



31. WELFARE AND SERVICE MATTERS COMMITTEE

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT (DEFICIT) / SURPLUS FROM THE FOLLOWING:		
Benevolent income	15,031	17,219
Engineering week	-	(404)
Engineering run	(11,600)	-
Other income	283	47
Meeting	2	(135)
Professional insurances indemnity	54,001	39,687
Prize for SPM / STPM achievers	300	(3,300)
Miscellaneous	1,097	-
IEM Family Day	74	(68)
Employment Survey	-	(1,097)
	59,188	51,949

32. CORPORATE AFFAIRS COMMITTEE

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT DEFICIT FROM THE FOLLOWING:		
Attending seminars and conference	-	26
Public relation	1,085	(169)
Overseas visitors	-	(964)
Local social functions	-	(405)
Others	(236)	(775)
	849	(2,287)

33. TECHNICAL DIVISIONS

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT SURPLUS FROM THE FOLLOWING:		
Geotechnical Engineering Technical Division	21,523	(30,824)
Chemical Engineering Technical Division	12,082	2,146
Project Management Technical Division	49,554	49,318
Building Services Engineering Technical Division	21,737	12,493
Mechanical Engineering Technical Division	56,530	8,587
Civil and Structural Engineering Technical Division	48,180	10,368
Electrical Engineering Technical Division	86,562	56,108
Water Resources Technical Division	2,358	191
Oil & Gas and Mining Engineering Technical Division	13,255	19,358
Environmental Engineering Technical Division	943	(929)
Highway and Transportation Engineering Technical Division	17,688	32,242
Engineering Education Technical Division	1,011	(349)
Information Technology Special Interest Group	(2,981)	1,808
Agricultural and Food Engineering Technical Division	3,652	3,414
Tunneling and Underground Space Engineering Technical Division	(8,325)	3,428
Electronic Engineering Technical Division	(7,000)	(7,000)
Marine Engineering & Naval Architecture Technical Division	7,328	5,890
Public Sector Engineers Special Interest Group	2,494	408
Consulting Engineers Special Interest Group	13,087	14,243
Urban Engineers development SIG	4,952	1,185
Senior SIG	189	(502)
Material engineering technical division	(1,358)	-
Technical divisions incentive account	-	-
	343,461	181,583



34. YOUNG ENGINEER SECTION

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT EXPENSES INCURRED IN RELATION TO:		
Income		
- Courses, seminar and other activities	61,413	37,615
Less: Expenditure		
- Others	(15,896)	(30,795)
	45,517	6,820

35. BANGUNAN INGENIEUR

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT EXPENSES INCURRED IN RELATION TO:		
License fee	695	675
Quit rent and assessment	25,149	28,369
Insurance	3,366	2,875
Building repairs and maintenance	33,796	19,299
Building security	78,679	65,456
Utilities	63,720	69,072
	205,405	185,746

36. WISMA IEM

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT EXPENSES INCURRED IN RELATION TO:		
Quit rent and assessment	24,348	24,348
Insurance	11,938	13,933
Building repairs and maintenance	6,426	73,219
Building security	118,017	97,812
Utilities	24,543	36,672
Fire fighting	400	2,240
	185,672	248,224

37. SABAH TRAINING CENTRE

	Group and	Institution
	2021	2020
	RM	RM
THESE REPRESENT EXPENSES INCURRED IN RELATION TO:		
Building repairs and maintenance	43,500	44,000

38. FINANCIAL INSTRUMENTS

	Gro	oup	Instit	ution
	2021	2020	2021	2020
	RM	RM	RM	RM
FINANCIAL ASSETS				
Subscription in arrears	437,888	434,686	437,888	434,686
Others receivables	1,119,402	1,368,154	936,420	1,164,735
Deposits	92,342	89,124	63,492	57,274
Amount due by a related company	205,143	-	-	-
Amount due by a subsidiary	-	-	-	4,103
Fixed deposits with licensed bank	4,831,887	4,685,799	2,784,576	2,576,137
Cash and cash balances	3,175,846	2,770,026	3,001,353	2,057,430
	9,862,508	9,347,789	7,223,729	6,294,365



FINANCIAL LIABILITIES				
Subscription in advance	1,925,185	1,986,215	1,925,185	1,986,215
Trade payables	105,934	98,047	105,934	80,111
Other payables	1,990,909	1,594,622	1,825,233	1,600,265
Accruals	266,827	85,486	257,827	69,420
Deposit received	217,366	139,525	217,366	139,525
Advance payment received	5,600	73,550	5,600	73,550
Deferred revenue	-	143,326	-	-
Amount due to a related party	205,143	-	-	-
Amount due to IEM Education Fund	35,727	125,158	35,727	125,158
Bank overdraft	5,252	102,375	5,252	102,375
Term loan	1,086,726	1,188,997	1,086,726	1,188,997
	5,844,669	5,537,301	5,464,850	5,365,736

Net gain and losses arising from financial instruments

	Gro	oup	Instit	ution
	2020	2020	2020	2020
	RM	RM	RM	RM
NET (LOSSES) / GAIN ARISING FROM:				
Financial asset at amortised cost				
Bad debts written off	74,175	32,257	-	-
Reversal of impairment loss on trade receivables	-	(55,959)	-	-
Interest income	(49,306)	(157,310)	(42,608)	(57,745)
	24,869	(181,012)	(42,608)	(57,745)
Financial liabilities at amortised cost				
Subscription in arrears written off	219,428	151,759	-	151,759
Interest expense	62,190	60,835	62,190	60,835
	281,618	212,594	62,190	212,594
	306,487	31,582	19,582	154,849

39. OPERATING LEASE COMMITMENTS

The total minimum lease payments under non-cancellable operating leases of the Company for the leasing of the premises are as follows:

	Gro	oup	Instit	ution
	2021	2020	2021	2020
	RM	RM	RM	RM
As Lessee				
Within one year	60,000	66,000	-	-
Between two to five years	40,000	4,500	-	-
	100,000	70,500	-	-
As Lessor				
Within one year	695,585	452,443	785,585	524,443
Between two to five years	515,955	446,655	583,455	604,155
	1,211,540	899,098	1,369,040	1,128,598

40. AUTHORISATION FOR ISSUE OF THE FINANCIAL STATEMENTS

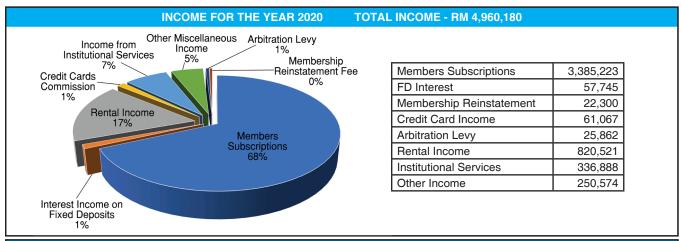
The financial statements of the Group and of the Institution were authorised for issue by the Council of the Institution on 21 March 2022.

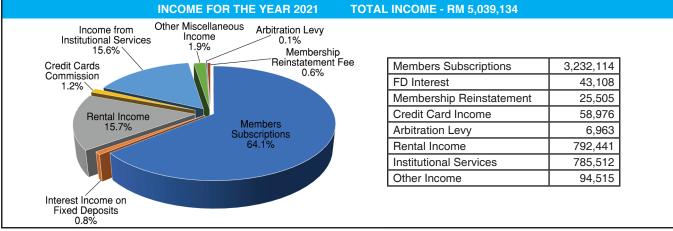


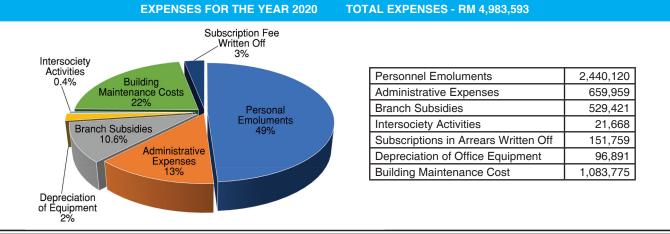


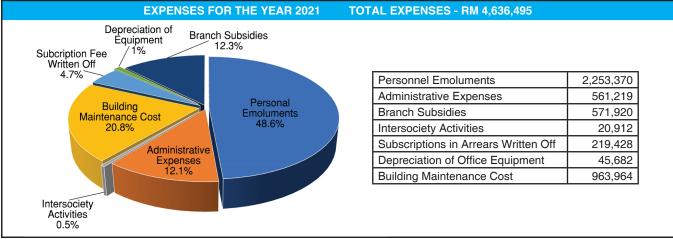
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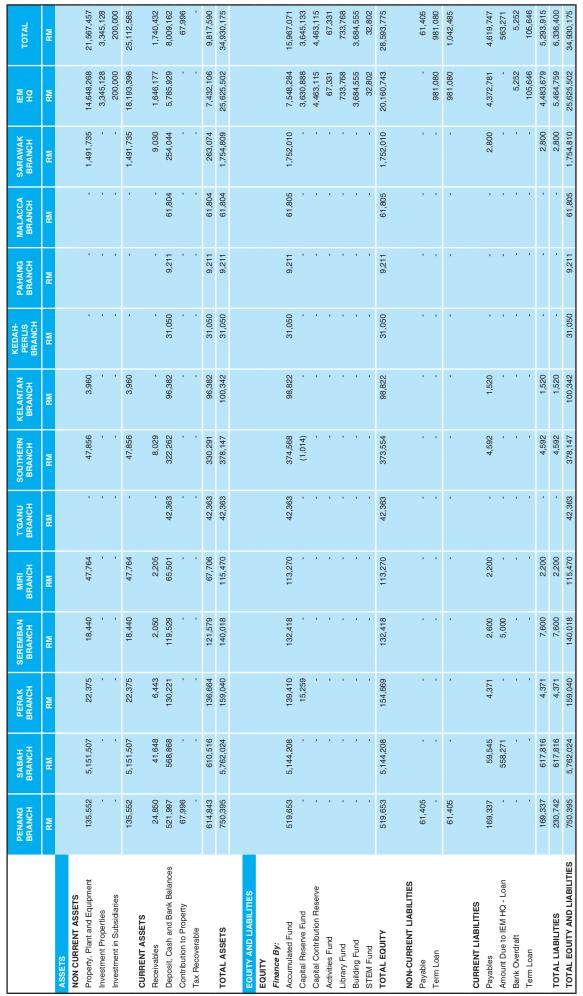






STATEMENT OF FINANCIAL POSITION AS AT 31 DECEMBER 2021 **IEM BRANCHES**







	PENANG	SABAH BRANCH	PERAK BRANCH	SEREMBAN BRANCH	MIRI	T'GANU BRANCH	SOUTHERN BRANCH	KELANTAN BRANCH	KEDAH- PERLIS BRANCH	PAHANG	MALACCA BRANCH	SARAWAK BRANCH	IEM	TOTAL
	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM	RM
INCOME / REVENUE	000	040 667	107	000	000	7 100	000	0	05 070	00	020	7		090 002
Subsidy from EETD	3,000	100,014	18/,10	56,55	+26,22	000,	020,20	200	5,000	t '	76,08	- ' 		3,000
Subsidy received from PERKESO	3,600	009'6	•	1,800	•	•	4,200	•	•	•	•			19,200
Surplus from Seminar, Conferences and Technical Visit	20,865	47,071	1,642	999	14,174	2,629	36,820	11,610	140	47	760	64,497	785,512	986,432
Surplus from YES National Summit	•	1	•	•	•	•	18,588	•	•	•	٠	T	•	18,588
Sponsorship Received	•	1	•	•	•	•	•	1,970	•	•	•	•	ſ	1,970
Rental Income	•	•	9,450	•	•	12,403	770	•	•	•	•	•	(216,018)	(193,395)
Administration Charges	25,600	•	•	•	•	•	1	•	,	•	•	•	T	25,600
Bank / Fixed Deposit Interest Received	7,362	6,242	•	•	953	•	4,243	•	•	1	•	5,362	r	24,162
Collection for IEM Membership	•	•	•	•	•	•	•	•	•	2,064	•		3,232,114	3,234,178
Collection for BEM Membership Application	•	,	2,290	•	1	•	•	•	•	670	•	ı	r	2,960
Collection on IEM Membership Reinstatement fees	•	•	1	•	•	,	,	,	,	,	1	•	43,108	43,108
Miscellaneous Income	18,794	089	1,180	270	1,800		1,753	10,369	•	•	069	34,948	185,959	256,444
Contribution Received for INTEC Building Fund	1	•	ı	1	•	,	•	ı	•	•	•	•	•	1
TOTAL INCOME	144,021	274,250	76,283	41,428	39,452	22,532	148,893	37,466	36,213	29,325	22,420	219,348	4,030,675	5,122,307
ONA NOITABLEMINISTER ALION AND														
OPERATING EXPENSES														
Administrative Expenses	(108,547)	(176,048)	(18,232)	(10,704)	(24,645)	(456)	(49,668)	(7,872)	(9,013)	(12,348)	(1,356)	(125,841)	(561,219)	(1,105,949)
Miscellaneous Expenses	(11,117)	1	(4,729)	(1,500)	(883)	(14,077)	(4,832)	(2,906)	(1,366)	(1,169)	(6,045)	(15,748)	(286,022)	(355,393)
Personal Emoluments	(124,261)	(167,882)	(30,422)	(27,916)	(23,418)	•	(110,097)	•	(15,110)	(10,800)	(8,400)	(111,894)	(2,253,370)	(2,883,570)
Branch Subsidies	•	•	•	•	•	•	•	•	•	•	•	•	(571,920)	(571,920)
Contribution to Property	•	1	(14,604)	•	(12,000)	(4,800)	•	•	•	1	•	ı	•	(31,404)
Reimbursement for IEM Membership Apllication	•	•	•	•	•	•	•	•	•	(1,995)	•	1	1	(1,995)
Reimbursement for BEM Membership Application	•	•		•	•	•	•	•	•	(650)	•	,	T	(099)
Reimbursement to IEM HQ	•	1		•	•	1	•	•	1	•	•	T		1
Expenses on INTEC Building	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tax Expenses	•	1	•	•	•	•	•	•	•	•	٠	•	•	•
TOTAL EXPENSES	(243,924)	(343,930)	(67,986)	(40,120)	(60,946)	(19,333)	(164,597)	(15,778)	(25,489)	(26,962)	(15,801)	(253,483)	(3,672,531)	(4,950,881)
SURPLUS / (DEFICIT) FOR THE YEAR AFTER TAX	(88,903)	(69,680)	8,297	1,308	(21,494)	3,199	(15,704)	21,688	10,724	2,363	6,619	(34,135)	358,144	171,426





IEM EDUCATION FUND HONORARY INTERNAL AUDITOR'S REPORT ACCOUNTS FOR THE YEAR ENDED 31 DECEMBER 2021



I have examined the Balance Sheet as at 31st December 2021, the Income and Expenditure Account together with Notes on the Accounts set out on pages 189 to 195, accounting and other records.

I hereby certify that they give a true and fair view of the state of affairs and the results of the Institution's operations for the year ended on that date.

Ir. Toh Chin Kok, Steven Honorary Internal Auditor Ir. Sreedaran a/l Raman

Honorary Internal Auditor



IEM EDUCATION FUND
STATUTORY FINANCIAL STATEMENTS
FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021



STATEMENT BY COUNCIL

In the opinion of the council, the financial statements set out on pages 189 to 195 are drawn up in accordance with Malaysian Private Entities Reporting Standard and the constitution and bylaws of the Institution so as to give a true and fair view of the financial position of the Institution as at 31 December 2021 and of the financial performance and cash flows of the Institution for the financial year ended on that date.

Signed on behalf of the Council,

Ir. Ong Ching Loon President

Petaling Jaya Date: 21 March 2022 Ir. Fam Yew Hin Hon Treasurer

STATUTORY DECLARATION

I, Ir. Fam Yew Hin (I/C No.: 761128-05-5147), the Hon Treasurer primarily responsible for the financial management of The Education Fund of The Institution of Engineers, Malaysia, do solemnly and sincerely declare that the financial statements set out on pages 189 to 195 are, in my opinion, correct and I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Statutory Declarations Act, 1960.

Subscribed and solemnly declared by the above-named at Petaling Jaya in the state of Selangor Darul Ehsan on 21 March 2022

Before me,

Ir. Fam Yew Hin

COMMISSIONER FOR OATHS

3 Damansara Shopping Mall 3, Jalan SS20/27 47400 Petaling Jaya Selangor Darul Ehsan

No. B 508 ONG CHOY YIN 1.2021 - 31.12.2023



INDEPENDENT AUDITORS' REPORT TO THE MEMBERS OF THE EDUCATION FUND OF THE INSTITUTION OF ENGINEERS, MALAYSIA

Opinion

We have audited the financial statements of The Education Fund of The Institution of Engineers, Malaysia, which comprise the statement of financial position as at 31 December 2021 of the Institution, and the statement of income and expenditure, statement of changes in accumulated fund and statement of cash flows of the Institution for the financial year then ended, and notes to the financial statements, including a summary of significant accounting policies, as set out on pages 189 to 195.

In our opinion, the accompanying financial statements give a true and fair view of the financial position of the Institution as at 31 December 2021, and of its financial performance and its cash flows for the financial year then ended in accordance with Malaysian Private Entities Reporting Standard and the constitution and by-laws of the institution.

Basis for Opinion

We conducted our audit in accordance with approved standards on auditing in Malaysia and International Standards on Auditing. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independence and Other Ethical Responsibilities

We are independent of the Institution in accordance with the By-Laws (on Professional Ethics, Conduct and Practice) of the Malaysian Institute of Accountants ("By-Laws") and the International Ethics Standards Board for Accountants' International Code of Ethics for Professional Accountants (including International Independence Standards) ('IESBA Code'), and we have fulfilled our other ethical responsibilities in accordance with the By-Laws and the IESBA Code.

Responsibilities of the Council for the Financial Statements

The council of the Institution is responsible for the preparation of financial statements of the Institution that give a true and fair view in accordance with Malaysian Private Entities Reporting Standard and the constitution and by-laws of the institution. The council is also responsible for such internal control as the council determine is necessary to enable the preparation of financial statements of the Institution that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements of the Institution, the council is responsible for assessing the Institution's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the council members either intend to liquidate the Institution or to cease operations, or has no realistic alternative but to do so.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements of the Institution as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with approved standards on auditing in Malaysia and International Standards on Auditing will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with approved standards on auditing in Malaysia and International Standards on Auditing, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements of the Institution, whether due to fraud
 or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and
 appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is
 higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations,
 or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate
 in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Institution's internal
 control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the council members.
- Conclude on the appropriateness of the council's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Institution's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are



required to draw attention in our auditors' report to the related disclosures in the financial statements of the Institution or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Institution to cease to continue as a going concern.

Evaluate the overall presentation, structure and content of the financial statements of the Institution, including the
disclosures, and whether the financial statements of the Institution represent the underlying transactions and events in
a manner that achieves fair presentation.

We communicate with the council regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Other Matters

(i) This report is made solely to the members of the Company, as a body, in accordance with Section 266 of the Companies Act, 2016 in Malaysia and for no other purpose. We do not assume responsibility to any other person for the content of this report.

CHI-LLTC

Chartered Accountants

AF 2388

Petaling Java

Dated: 21 March 2022

3168/12/23(J)

Ng Leong Teck

Chartered Accountant



STATEMENT OF FINANCIAL POSITION AS AT 31 DECEMBER 2021

	Note	2021 RM	2020 RM
NON-CURRENT ASSETS			
Plant and equipment	3	-	-
Intangible assets	4	-	-
Receivables	5	715,713	793,849
		715,713	793,849
CURRENT ASSETS			
Deposits and bank balances	6	1,881,493	1,860,218
Tax recoverable		4,585	4,585
		1,886,078	1,864,803
TOTAL ASSETS		2,601,791	2,658,652
FINANCED BY: Accumulated fund		2,548,406	2,556,152
CURRENT LIABILITY			
Payables	7	53,385	102,500
TOTAL LIABILITY		53,385	102,500
TOTAL EQUITY AND LIABILITY		2,601,791	2,658,652

STATEMENT OF INCOME AND EXPENDITURE FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021

	2021 RM	2020 RM
INCOMES		
Donation received	35,727	55,826
Bank interest	437	941
Fixed deposit interest income	27,899	42,016
	64,063	98,783
LESS: EXPENDITURES		
Attestation charges	51	-
Auditors' remuneration	2,500	2,500
Bank charges	20	60
Courier & postage	32	-
Professional fees and tax services	1,590	1,590
Service tax	300	-
Sponsorship expenses	5,560	4,953
Sponsorship to IEM activities	19,351	23,123
Scholarship	42,000	53,500
Printing & stationery	357	749
Telephone & fax	37	68
Travelling & transport	11	276
	(71,809)	(86,819)
(Deficit) / surplus before tax	(7,746)	11,964
Income tax expense	-	3,278
(Deficit) / surplus for the financial year	(7,746)	15,242



STATEMENT OF CHANGES IN ACCUMULATED FUND FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021

	Accumulated fund RM
Balance as at 31 December 2019	2,540,910
Surplus for the financial year	15,242
Balance as at 31 December 2020	2,556,152
Deficit for the financial year	(7,746)
Balance as at 31 December 2021	2,548,406

STATEMENT OF CASH FLOWS FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021

No.	ote	2021 RM	2020 RM
CASH FLOWS FROM OPERATING ACTIVITIES	0.0		
(Deficit) / Surplus before tax		(7,746)	11,964
Adjustments for:			
Interest income		(28,336)	(42,957)
Operating deficit before working capital changes		(36,082)	(30,993)
Decrease / (increase) in receivables		78,136	(21,795)
(Decrease) / increase in payables		(49,115)	380
Cash used in operating activities		(7,061)	(52,408)
Bank interest received		437	941
Net cash used in operating activities		(6,624)	(51,467)
CASH FLOWS FROM INVESTING ACTIVITIES			
Fixed deposit interest received		27,899	42,016
Changes in fixed deposits		(27,899)	(52,772)
Net cash generated from investing activity		-	(10,756)
Net decrease in cash and cash equivalents		(6,624)	(62,223)
Cash and cash equivalents at the beginning of the financial year		298,358	360,581
Cash and cash equivalents at end of the financial year	6	291,734	298,358



NOTES TO THE FINANCIAL STATEMENTS FOR THE FINANCIAL YEAR ENDED 31 DECEMBER 2021

1. GENERAL INFORMATION

The Institution is a registered institution registered under the Society Act, 1966 and domiciled in Malaysia.

The principal office is situated at Bangunan Ingenieur, Lot 60 & 62, Jalan 52/4, Peti Surat 223, Jalan Sultan, 46720 Petaling Jaya, Selangor Darul Ehsan.

The Education Fund of the Institution of Engineers, Malaysia is principally to contribute towards further progress and advancement of all disciplines of the engineering profession by the provision of scholarships and educational loans and also the provision of grants for seminars, conferences, research and other related engineering education activities. There have been no significant changes in the nature of these principal activities of the Institution during the financial year.

The financial statements of the Institution are presented in the functional currency, which is the currency of the primary economic environment in which the entity operates. The functional currency of the Institution is Ringgit Malaysia as the sales and purchases are mainly denominated in Ringgit Malaysia and receipts from operations are usually retained in Ringgit Malaysia and funds from financing activities are generated in Ringgit Malaysia.

2. SIGNIFICANT ACCOUNTING POLICIES

The financial statements have been prepared on the historical cost basis unless otherwise stated.

The principal accounting policies adopted are set out below:

2.1 PLANT AND EQUIPMENT

The cost of an item of plant and equipment is recognised as an asset when it is probable that future economic benefits associated with the item will flow to the Institution and the cost of the item can be measured reliably. After recognition as an asset, an item of plant and equipment are measured at cost less any accumulated depreciation and any accumulated impairment losses.

Depreciation is provided on a straight-line method so as to write off the depreciable amount of the following assets over their estimated useful lives, as follows:

Office equipment 10% Furniture and fittings 10% Computers 40%

Depreciation of an asset begins when it is ready for its intended use.

If there is an indication of a significant change in factors affecting the residual value, useful life or asset consumption pattern since the last annual reporting date, the residual values, depreciation method and useful lives of depreciable assets are reviewed, and adjusted prospectively.

The carrying amounts of items of plant and equipment are derecognised on disposal or when no future economic benefits are expected from their use or disposal. Any gain or loss arising from the derecognition of items of plant and equipment, determined as the difference between the net disposal proceeds, if any, and the carrying amounts of the item, is recognised in profit or loss. Neither the sale proceeds nor any gain on disposal is classified as revenue.

2.2 INTANGIBLE ASSETS

Intangible assets are measured on initial recognition at cost. Following initial recognition, intangible assets are carried at cost less any accumulated amortisation and impairment losses, if any. The useful lives of intangible assets assessed to be finite are amortised on a straight line basis over the estimated economic useful lives. The amortisation period and the amortisation method for an intangible asset with a finite useful life are reviewed at least at each reporting date.

Intangible assets that have been capitalized are amortised on a straight line basis over the period of their expected benefit, but not exceeding 5 years commencing from the period when the intangible assets are available for use.

Gain or loss arising from derecognition of an intangible asset is measured as the difference between the net disposal proceeds and the carrying amount of the asset and is recognised in profit or loss when the asset is derecognised.

2.3 IMPAIRMENT OF ASSETS, OTHER THAN INVENTORIES AND FINANCIAL ASSETS

At each reporting date, the Institution assesses whether there is any indication that an asset may be impaired. If any such indication exists, the recoverable amount of the asset is estimated.

When there is an indication that an asset may be impaired but it is not possible to estimate the recoverable amount of the individual asset, the Institution estimates the recoverable amount of the cash-generating unit to which the asset belongs.

The recoverable amount of an asset and a cash-generating unit is the higher of the fair value less costs to sell and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset.

If the recoverable amount of an asset or a cash-generating unit is less than the carrying amount, an impairment loss is recognised to reduce the carrying amount to its recoverable amount. An impairment loss for a cash-generating unit is firstly allocated to reduce the carrying amount of any goodwill allocated to the cashgenerating unit, and then, to the other non-current assets of the unit pro rata on the basis of the carrying amount of each appropriate asset in the cash-generating unit.

Impairment loss is recognised immediately in profit or loss, unless the asset is carried at a revalued amount, in which case it is treated as a revaluation decrease.

The recoverable amount is the higher of an asset's or cash-generating unit's fair value less to sell, value in use and zero.

An impairment loss recognised in prior periods for an asset or the appropriate assets of a cash-generating unit is reversed when there has been a change in the estimates used to determine the asset's recoverable amount. An impairment loss is reversed to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation, if no impairment loss had been recognised in prior periods. A reversal of an impairment loss is recognised immediately in profit or loss, unless the asset is carried at revalued amount, in which case it is treated as a revaluation increase.

2.4 FINANCIAL ASSETS

Financial assets are recognised in the statement of financial position when the Institution becomes a party to the contractual provisions of the instrument.

On initial recognition, financial assets are measured at transaction price, include transaction costs for financial assets not measured at fair value through profit or loss, unless the arrangement constitutes, in effect, a financing transaction for the counterparty to the arrangement.

2.5 CASH AND CASH EQUIVALENTS

Cash and cash equivalents in the statement of cash flows comprise bank balances and short-term bank deposits that have a short maturity of three months or less from the date of acquisition.

2.6 PROVISIONS

A provision is recognised when the Institution has an obligation at the reporting date as a result of a past event, it is probable that a transfer of economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

The risks and uncertainties are taken into account in reaching the best estimate of a provision. When the effect of the time value of money is material, the amount recognised in respect of the provision is the present value of the expenditure expected to be required to settle the obligation.

2.7 FINANCIAL LIABILITIES

Financial liabilities are recognised in the statement of financial position when the Institution becomes a party to the contractual provisions of the instrument.

On initial recognition, financial liabilities are measured at transaction price, include transaction costs for financial liabilities not measured at fair value through profit or loss, unless the arrangement constitutes, in effect, a financing transaction for the Institution to the arrangement.



2.8 INCOME RECOGNITION

i) Donation received

Donation is recognised on cash receipt basis.

ii) Interest income

Interest income is recognised n accruals basis using the effective interest method.

2.9 EMPLOYEE BENEFITS

i) Short-Term Employment Benefits

Short-term employment benefits, such as wages, salaries and other benefits, are recognised at the undiscounted amount as a liability and an expense when the employees have rendered services to the Company.

The expected cost of accumulating compensated absences are recognised when the employees render services that increase their entitlement to future compensated absences. The expected cost of non-accumulating compensated absences, such as sick and medical leaves, are recognised when the absences occur.

The expected cost of accumulating compensated absences are measured at the undiscounted additional amount expected to be paid as a result of the unused entitlement that has accumulated at the end of the reporting period.

The expected cost of profit-sharing and bonus payments are recognised when the Company has a present legal or constructive obligation to make such payments as a result of past events and a reliable estimate of the obligation can be made. A present obligation exists when the Company has no realistic alternative but to make the payments.

3. PLANT AND EQUIPMENT

	As at 1.1.2021 RM	Written off RM	As at 31.12.2021 RM
COST			
Office equipment	32,645	(32,645)	-
Furniture and fittings	41,050	(41,050)	-
Computers	20,348	(20,348)	-
	94,043	(94,043)	-

	As at 1.1.2021 RM	Written off RM	As at 31.12.2021 RM
ACCUMULATED DEPRECIATION			
Office equipment	32,645	(32,645)	-
Furniture and fittings	41,050	(41,050)	-
Computers	20,348	(20,348)	-
	94,043	(94,043)	•

	2021	2020
	RM	RM
CARRYING AMOUNTS		
Office equipment	-	-
Furniture and fittings	-	-
Computers	-	-
	-	-



4. INTANGIBLE ASSETS

	2021	2020
	RM	RM
COST		
At beginning of the financial year	63,482	63,482
Written off	(63,482)	-
At end of the financial year	-	63,482
ACCUMULATED AMORTISATION		
At beginning / end of the financial year	63,482	63,482
Witten off	(63,482)	-
At end of the financial year	-	63,482
CARRYING AMOUNTS		
At end of the financial year	-	-

5. RECEIVABLES

	2021	2020
	RM	RM
Other receivables	897,018	975,154
Less: Amortised cost adjustment	(181,305)	(181,305)
	715,713	793,849

The movement of amortised cost adjustment are as follows:

	2021	2020
	RM	RM
At beginning / end of the financial year	181,305	181,305

6. DEPOSITS AND BANK BALANCES

	2021	2020
	RM	RM
Cash at bank	291,734	298,358
Fixed deposits with licensed banks	1,589,759	1,561,860
Cash and cash equivalents	1,881,493	1,860,218

The fixed deposits with licensed bank at the end of the financial year earned interest at 1.65% to 1.85% (2020: 1.65% to 1.85%) per annum. The maturity of deposits from 6 to 12 months (2020: 6 to 12months).

For the purpose of statement of cash flows, cash and cash equivalents comprise:

	2021	2020
	RM	RM
Cash at bank	291,734	298,358
Fixed deposits with licensed banks	1,589,759	1,561,860
	1,881,493	1,860,218
Less: Fixed deposits with maturity period of more than 3 months	(1,589,759)	(1,561,860)
Cash and cash equivalents	291,734	298,358

7. PAYABLES

	2021	2020
	RM	RM
Other payable	50,735	100,000
Accruals	2,650	2,500
	53,385	102,500



8. INCOME TAX EXPENSE

	2021 RM	2020 RM
Current year tax provision	-	-
Over provision in prior years	-	(3,278)
	-	(3,278)

A reconciliation of income tax expense applicable to (deficit)/surplus before tax at the statutory income tax rate to income tax expense at the effective income tax rate of the Company is as follows:

	2021 RM	2020 RM
(Deficit)/surplus before tax	(7,746)	11,964
Non-taxable income	(35,727)	(55,826)
Deferred tax expense not recognised during the financial year	35,727	55,826
Over provision in prior years	-	(3,278)
Tax expense for the financial year	-	(3,278)

The Fund is an approved fund under Section 44(6) of the Income Tax Act 1967 ("the Act"). More than 50% of the total income received by the Fund in the preceding year has been spent during the current year. Hence, the total income for the financial year is exempted from tax under Paragraph 13(a) of Schedule 6 of the Act.

9. FINANCIAL INSTRUMENTS

	2021	2020
	RM	RM
FINANCIAL ASSETS		
Non-trade receivables	715,713	793,849
Fixed deposits with licensed banks	1,589,759	1,561,860
Cash at bank	291,734	298,358
	2,597,206	2,654,067
FINANCIAL LIABILITIES		
Other payables	50,735	100,000
Accruals	2,650	2,500
	53,385	102,500

Net gain and losses arising from financial instruments

	2021 RM	2020 RM
NET (LOSSES) / GAIN ARISING FROM: FINANCIAL ASSET AT AMORTISED COST		
Interest income	(28,336)	(42,957)

10. DATE OF AUTHORISATION OF ISSUE

The financial statements had been authorised for issue on 21 March 2022.

