

WFEO - WORLD FEDERATION OF ENGINEERING ORGANIZATIONS

PROPOSAL TO HOST

STANDING COMMITTEE ON EDUCATION IN ENGINEERING (CEIE)

May 2023

Myanmar Engineering Council, national member for Myanmar, would like to submit a proposal to host Committee on Education in Engineering from 2023 to 2027 with a strategic plan as presented below.

1. BACKGROUND

The World Federation of Engineering Organizations (WFEO) is the peak body for engineering globally, representing nearly 100 nations and more than 30 million engineers. The members of WFEO are the main national and regional professional engineering institutions of the world.

2. VISION AND MISSION

The World Federation of Engineering Organizations has a key strategy to advance the UN Sustainable Development Goals through engineering.

The Vision of the Committee on Education in Engineering (CEIE) is to ensure that there are more engineers with quality engineering education that will provide the engineering skills that are needed sustainable development. This is a key strategic objective of WFEO. The Mission of the Committee on Education in Engineering is to

- a. Promote high standards of engineering education to ensure that engineers have the right skills to advance the UN Sustainable Development Goals
- b. support the individual engineers that are the members of WFEO member institutions, with opportunities for professional development and lifelong learning
- c. Encourage the development of professional engineering institutions that are the members of WFEO to be strong institutions
- d. Work in collaboration with the members, standing committees, working groups and partners of WFEO to share training and learning resources and develop programs that are mutually beneficial to engineers everywhere.

The Committee on Education in Engineering (CEIE) will work towards excellence in engineering education.

The main issue is to bring the profession into higher levels in research and development and to focus on the issues of accreditation for the mobility of engineering professionals, sustainability and globalization of engineers around the world. The committee will work on establishing webinars and conferences on the issue of accreditation.

In partnership with its national members and other WFEO standing committees, the WFEO-CEIE will execute a thematic, results-oriented program that:

- Increases the understanding of the international, national, and regional awareness on the impact of globalization in engineering education.
- Pushes the mobility of engineering professionals process through local and international accreditation of engineering programs at universities.
- Gathers and disseminates information and provides recommendations for the accreditation of engineering programs.
- Develops and promulgates appropriate educational programs in the industry/university to keep poverty away from developed nations.
- Engages with the appropriate United Nations agencies, international, non-government organizations and national members of World Federation of Engineering Organizations to provide engineering advice and strategies related to the international accreditation processes.
- Works on the issue of sustainability for the wellbeing of the engineering profession.
- Supports and raises WFEO's profile and participation in the work of UNESCO and other UN agencies as it relates to engineering education.
- Engages with other international bodies like IEA, and on projects that support the practice of engineering.

3. FOCUS ON THE UN SUSTAINABLE DEVELOPMENT GOALS

The key focus of the Committee on Education in Engineering (CEIE) will be the UN Sustainable Development Goals 4 as shown below:

- To address the need for more engineers with the right skills through Engineering Education and Professional Development,
- To develop strong engineering education and professional engineering institutions and accreditation bodies and
- to work with the members, standing committees, working groups and partners of WFEO including the International Engineering Alliance (IEA) to achieve the international engineering education standards and the International Federation of Engineering Education Societies (IFEES) and the Federation of International Consulting Organizations (FIDIC) to share best practices and training materials for the benefit of individual engineers that are the members of the professional engineering institutions of the world that are the members of WFEO.
- This also contributes to SDG 16, for strong institutions in engineering education.
- The Committee is also working in partnership with partner organizations which is relevant to the SDG17

4. OBJECTIVES AND ACTIVITIES

The key objective and activities of the Committee on Education in Engineering (CEIE) are:

- a. Regular annual conference ICEEA
- b. Publication of IDEAS Journal
- c. Ongoing Development of WFEO Academy training website to provide training and development to support the work of the professional engineering institutions that are the members of WFEO and to support lifelong learning of their members

These activities will have worldwide benefit to the economies of nations as well as to individual engineers and engineering institutions.

5. OPERATIONS

a. Committee structure

The Committee will consist of representatives of WFEO members representing all the regions of the world. Committee members will guide and support the specific work that is done with the International Engineering Alliance and will also develop and deliver training programs for improved standards in engineering education.

The Committee will develop the following work groups to cover the major areas of work. Each work group will consist of volunteer resources from WFEO members and international partners.

Working Group 1: Develop annual ICEEA Conference Program

Working Group 2: Develop annual IDEAS Journal

Working Group 3: Develop the WFEO Academy website with training materials to support WFEO members around the world to improve their standards of engineering education and ongoing professional development and to support professional engineering institutions to provide lifelong learning for their members.

Membership: Representatives of WFEO members from Asia, Africa, Europe, Americas and Middle East will work together to develop this important resource which will be used worldwide.

Each Working group will be led by a Committee Vice-Chair.

b. Membership

The Committee on Education in Engineering (CEIE) will welcome membership from all WFEO members to support its important work. The Committee Secretariat will maintain a current list of members and their contact information.

c. Meetings

The Committee will meet four times a year including at least one face-to-face meeting each year, normally at the same time as the WFEO annual meeting – Executive Council or General Assembly.

The working groups will meet virtually during the year and review progress on projects and specific mentoring activities at the annual face to face meetings.

d. Communications

The activities of the committee will be communicated to WFEO members by:

- (i) Newsletter – The Committee will produce a newsletter for WFEO members at least twice per year.
- (ii) WFEO Website - The Committee Secretariat will provide updates to the WFEO webmaster so that the Committee web pages are up to date.

e. Reporting

The Chair and Secretariat will prepare and submit an annual report to the WFEO meetings and for the WFEO biennial report.

6. OUTCOMES

Working Group 1: Develop annual ICEEA Conference Program

Annual Conference Program with speakers from around the world for sharing of trends and advancements in Engineering Education, etc.

Working Group 2: Develop annual IDEAS Journal

Publication of IDEAS Journal which will contain articles from world leading experts on trends and advancements in Engineering Education, etc

Working Group 3: Develop the WFEO Academy website

Ongoing growth of the WFEO Academy with training materials and expert webinars and increasing uptake by members of WFEO members' institutions around the world. MEngC will provide resources to develop the website, such as developing the quizzes for the webinars that are uploaded.

<u>Proposed Outcomes</u>	<u>Timing</u>	
<u>Working Group 1</u>		
Develop annual ICEEA Conference Program		Key outcome is Annual Conference Program with speakers from around the world for sharing of trends and advancements in Engineering Education, Etc that also advance SDG #4.
Planning and development of conference program, invitation to speakers,	Oct 2023 - 2024	ICEEA 2024

coordination of on line technology for virtual conference		
Planning and development of conference program, invitation to speakers, coordination of on line technology for virtual conference	Oct 2024-Oct 2025	ICEEA 2025
Planning and development of conference program, invitation to speakers, coordination of on line technology for virtual conference	Oct 2025-Oct 2026	ICEEA 2026
Planning and development of conference program, invitation to speakers, coordination of on line technology for virtual conference	Oct 2026-Oct 2027	ICEEA 2027

<u>Proposed Outcomes</u>	<u>Timing</u>	
<u>Working Group 2</u>		
Develop annual IDEAS Journal		
Collate content and publish Journal	Oct 2023 - 2024	Issue No. 22
Collate content and publish Journal	Oct 2024 – 2025	Issue No. 23
Collate content and publish Journal	Oct 2025 – 2026	Issue No. 24
Collate content and publish Journal	Oct 2026 - 2027	Issue No. 25

<u>Proposed Outcomes</u>	<u>Timing</u>	
<u>Working Group 3</u>		
Develop the WFEO Academy website		Outline of work is provided below. Detailed program of training workshops and activities will be developed when the Committee is established
Training programs for engineering education assessors, engineering educators and development of professional engineering institutions	Jan 2023 – Oct 2027	On line. Key outcome will be numbers that are trained worldwide and training materials

7. BUDGET AND RESOURCES

The total Committee annual budget is estimated at USD 50,000 per year.

The host Myanmar Engineering Council will mobilize this budget from its own sources and engagement of strategic partners. The Myanmar Engineering Governing Council and Secretariat will coordinate and manage all activities and expenses for this budget.

This budget consists of the costs for:

- ❖ Office facilities for Committee Secretariat in the offices of Myanmar Engineering Council in Yangon
- ❖ Support staff salary, rentals, utilities and consumables
- ❖ Workshops, seminars and attending conferences that are organized locally or internationally and co-hosted by the Committee held outside the host member country, as this is an international committee
- ❖ Participation in WFEO major events such as the annual conference and Chairing of the meeting of the Committee (travel costs for the Chair to attend the meetings)
- ❖ Development of training materials and other documents in relation to the work of the Committee

Other sources of Funding

The Secretariat and Chair will support efforts towards securing funding from external sources such as corporate sponsors and international funding agencies.

Budget

The proposed budget is summarized below:

RESOURCE	BUDGET (USD/year)	Comments
Secretariat staff cost	\$22,000.00	In kind contribution MEngC
Offices rent	\$2,000.00	In kind contribution MEngC
Computer, fax, phone	\$2,000.00	In kind contribution MEngC
Web maintenance (under WFEO web page)	\$3,000.00	The web page will include newsletters and other information.
Production of training materials and on-line webinars	\$15,000.00	Zoom and on line facilities are in kind contribution by MEngC
Travelling and meetings	\$6,000.00	Chair of Committee
Total expenditure	\$50,000.00	
Total 4 years	\$200,000.00	

8. EXPERIENCE AND CAPABILITIES

Myanmar Engineering Council is a provisional signatory of the International Engineering Alliance (IEA) Washington Accord for professional engineering education and has direct experience in the IEA accreditation system and the process of mentoring and support to obtain IEA Signatory status of the Accords and Agreements that are governed by this organization. See Attachment 1.

Myanmar Engineering Council has held workshops, seminars and meetings for thousands of educators and groups to improve the standards of engineering education.

Myanmar Engineering Council has the facilities in its own building, to run training programs and workshops and experience with online training and webinars.

Thousands of engineering educators have attended the webinars held using Zoom in the past few months during the lockdown caused by COVID-19.

9. CONFIRMATION OF COMPLIANCE WITH WFEO RULES OF PROCEDURES FOR COMMITTEES

This strategy document aligns with relevant clauses WFEO Rules of Procedure Clauses 3.2, 3.3 and 3.4 and Annex C Clauses 2.1 to 2.4. That were approved by the WFEO Executive Council in London in October 2018.

10. PROPOSED OF CHAIR OF THE COMMITTEE AND CONFIRMATION OF HIS OBLIGATION

Myanmar Engineering Council again proposes Dr. Zaw Min Aung, Current Chair, WFEO - Committee on Education in Engineering, as the Chair of the Committee for the proposed next term. Dr. Zaw Min Aung is recognized and experienced educator and leader of Technical Universities and Government Technical Institutions in Myanmar and has led the process and journey for Myanmar Engineering Council, Engineering Education Accreditation Committee to attain the provision signatory status of the Washington Accord at the IEA.

Dr. Zaw Min Aung has the required skills and experience, the time and capability to serve as the Chair of the Committee for a 4-year term from 2024 to 2027. It is confirmed that the Chair will be available for attendance at WFEO meetings including the Executive Council and General Assembly meetings. Funding for travel will be provided by Myanmar Engineering Council as described under Section 4.

11. CONFIRMATION OF GOOD STANDING

Myanmar Engineering Council is in good standing as it has paid all member dues by 31 March. It confirms that it would consistently be in good standing during the term as host of the Committee.

12. ATTACHMENTS

Attachment 1: Overview of Myanmar Engineering Council.

Attachment 2: WFEO Committee on Education in Engineering (CEIE) Activities



Overview of Myanmar Engineering Council

Myanmar Engineering Council

- ☼ MEngC was founded according by Law to develop the Engineering education in Myanmar and maintain the internationally recognized standards of professional competence and ethics that govern the awarding and retention of professional engineering certificates or licenses
- ☼ Professional Engineer System has been introduced in Myanmar due to the ASEAN Mutual Reorganization Arrangement on Engineering Service, signed by the government
- ☼ The Engineering Education Accreditation Committee (EEAC), representing MEngC is an independent body for the accreditation of engineering programmes in Myanmar

Myanmar Engineering Council

- ☼ a non-profit non-governmental organization is the professional body of Myanmar Engineering Profession
- ☼ 60 Council Members of elected and 8 working committees

Vision

To regulate and upgrade the dignity, ethics and quality of Myanmar Engineers, Technicians and Technologists who are practising engineering works

Ultimate Vision

Will be raise education levels to achieve signatory status in Washington Accord, Sydney Accord and Dublin Accord and also to be a member of International engineering agreements

Mission

To hold paramount the safety, health and welfare of the public

- ❁ 2004 FEIAP Mentor visited Myanmar Maritime University (MMU)
- ❁ 2009 the first attempt of FEIAP for the accreditation in Myanmar education system, representatives from Chinese Institute of Engineers (CIE) and Institute of Engineering Education Taiwan (IEET)
- ❁ 2013 FEIAP Mentors with the team from Taiwan were made the formal visit to MMU and discussion with the team at YTU led by the chairman of Steering Committee
- ❁ 2013 Myanmar Engineering Council (MEngC) was established as an Accrediting Body for the jurisdiction on 28th November 2013 (State Parliamentary Law 37) to develop the Engineering Education in Myanmar

- 2013 MEngC, which is a non-profit, non-governmental accreditation organisation, is the regulatory body of Myanmar Engineering Profession
The Engineering Education Accreditation Committee (EEAC), representing MEngC is an independent body for the accreditation of engineering programmes in Myanmar
- 2015 MEngC, EEAC developed the comprehensive Accreditation Manual with the help of CIE and IEM
- 2013-2023 Accreditation Workshops, Trainings, Seminars
- 2013-2023 Accreditation On-Site Visits

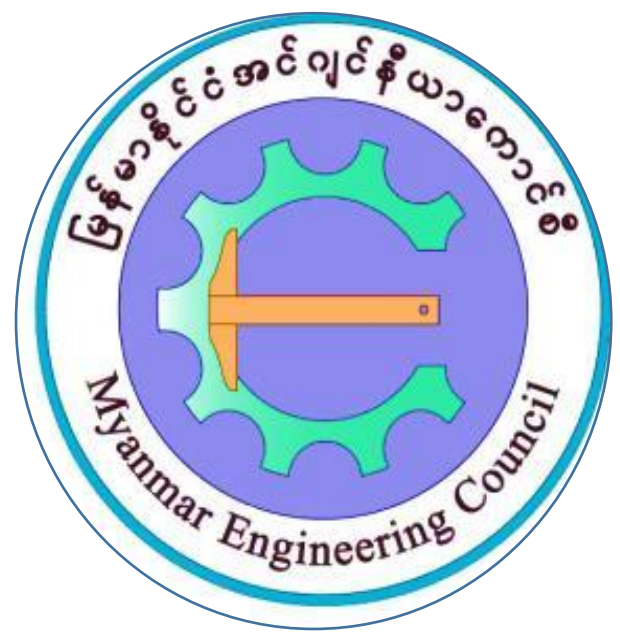
- 2015-2020 Engineering Education Accreditation Manual, Policy and Procedure (2015)

Engineering Education Accreditation Manual, Policy and Procedure (2016)

Engineering Education Accreditation Manual, Policy and Procedure (2018)

Engineering Education Accreditation Manual, Policy and Procedure (2020) (Stage I: Nation Building Level)

Engineering Education Accreditation Manual, Policy and Procedure (2020) (Washington Accord Level)



Attachment 2



World Federation of Engineering Organizations (WFEO) Committee on Education in Engineering (CEIE)

Activities 2019 - 2023

Achievements Past, Present, Future

- Did Mentoring Programs (2020 - 2022)
- Organized International Conference on Engineering Education & Accreditation (ICEEA) 2021, 2022 and to organize each per year to continue from ICEEA 2023 onwards
- Published IDEAS Journal -20 and to publish two issues per year to come from 2023 onwards
- Established WFEO Academy Website
- Would Organize the Education Session in WEC2023 in Prague
- Hosting of CEIE for Next Term



Well Match with Current Needs

Global warming, pandemic, conflicts and other threats calls for approaches to quality engineering education beyond conventional aims and action plans. Quality engineering education for sustainable development is very crucial.



Mentoring Work

- WFEO - the Co-Chair of the Science and Technology Group at the UN Major Group of Stakeholders (MGoS)
- WFEO - CEIE achievements of the past two years are very remarkable and well match with the theme for the HLPF 2022 –

“Building back better from the coronavirus disease (COVID-19) while advancing the full implementation of the 2030 Agenda for Sustainable Development”.
- WFEO - CEIE did the Mentoring Work with its partners in international engineering to align its engineering education benchmarks with the UN SDGs. The work was supported by UNESCO.



Mentoring Support

Mentoring support has been given by the following members/Economies -

National Board of Accreditation India (NBA)

Pakistan Engineering Council (PEC)

Institution of Engineers Sri Lanka (IESL)

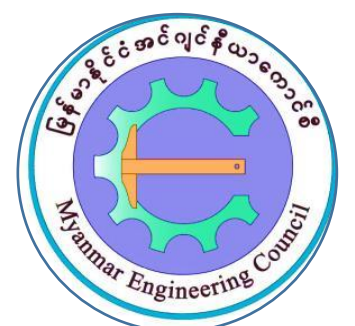
China Association of Science and Technology (CAST)

Board of Engineers Malaysia (BEM)

Engineering Council of South Africa (ECSA)

Peruvian Engineers Association (CIP)

Myanmar Engineering Council (MEngC)



Members/ Economies who were interested to be WFEO Member, seeking mentoring to become IEA Provisional Signatory Status

- Institution of Engineers Mauritius (IEM)
- Engineers Board of Kenya (EBK)
- Ghana Tertiary Education Commission (GTEC)

Regular meeting were held virtually with a systematic approach to build capacity to achieve international standards



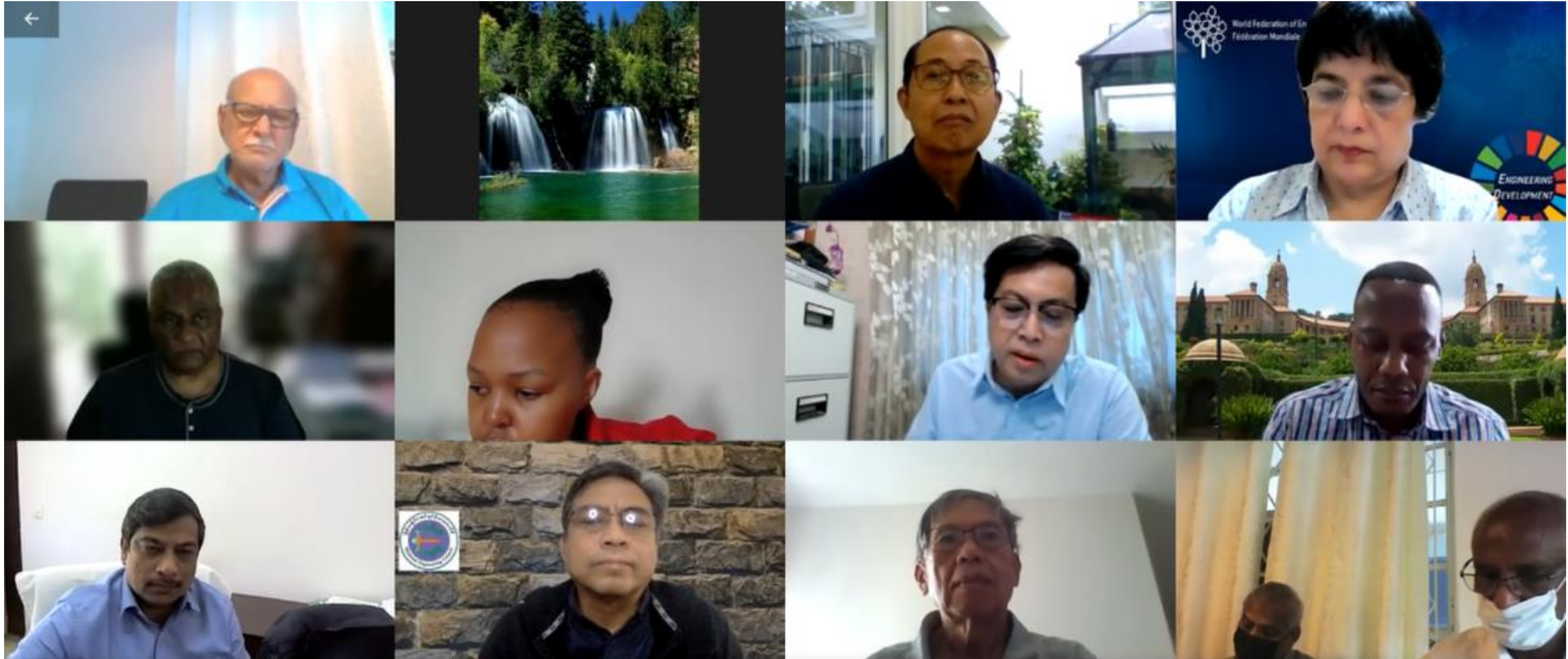
Mentors and Mentees Relationship Activities



The mentoring session of Engineers Board of Kenya (EBK) with Pakistan Engineering Council (PEC) & Board of Engineers Malaysia (BEM)



Mentors and Mentees Relationship Activities



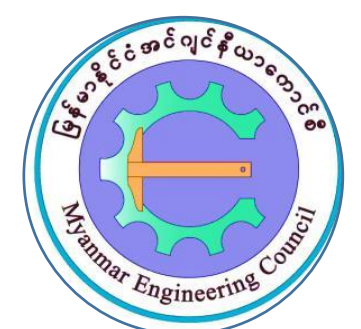
**The mentoring session of Institution of Engineers Mauritius (IEM) with
National Board of Accreditation (NBA, India) & Engineering Council of
South Africa (ECSA)**



Mentors and Mentees Relationship Activities



**The mentoring session of Institution of Engineers Mauritius (IEM) with
National Board of Accreditation (NBA, India) & Engineering Council of
South Africa (ECSA)**



Mentoring Site Visit - Mauritius

1. Site Visit to Mauritius 27 June – 1 July 2022 – hosted by The Institution of Engineers Mauritius (IEM), led by WFEO Past President Dr Marlene Kanga
2. Next Stage after establishing the appropriate structure and policies and procedures
3. Goal was to build capacity for accreditation and to review infrastructure and facilities at the Higher Education Institutions
4. Observed accreditation visits to three universities:
 - University of Mauritius – Civil Engineering and Chemical Engineering
 - University de Mascareignes – Civil Engineering
 - University of Technology – Electrical and Electronics Engineering



Mentoring Site Visit - Mauritius

5. Visited the facilities at the three universities
6. Provided training to educators and assessors from all three universities
7. Meetings with:
 - a. Minister for Science and Technology
 - b. Chair Higher Education Commission
 - c. Chair Quality Assurance Authority
 - d. Chair Council for Regulation of Professional Engineers
 - e. President Institution of Engineers Mauritius
 - f. Chair IEM Engineering Accreditation Board



Mentoring Site Visit - Mauritius



National Support from the Government, Ministry of Education, and leaders of the tertiary education sector and universities

Opening Session: L to R: Chair Quality Assurance Authority, Chair Council for Registration of Professional Engineers, President Institution of Engineers Mauritius, WFEO President 2017-2019 Dr Marlene Kanga, Vice Prime Minister and Minister for Science and Technology Mauritius, Dr S Agrawal, Mentor NBA India, Dr Andrew Chan, Chair Engineering Accreditation Board Mauritius, Chair Mauritius Institute of Education, Chair Tertiary Education Commission Mauritius, 27 June 2022



Assessor team (Chem Engg.) and observers at University of Mauritius 28 June 2022

Photos Courtesy of Dr Marlene Kanga, Past President, WFEO



Mentoring Site Visit - Mauritius



Assessor team for University of Mauritius with Industry representatives and non-participatory observation by mentors, 27 June 2022

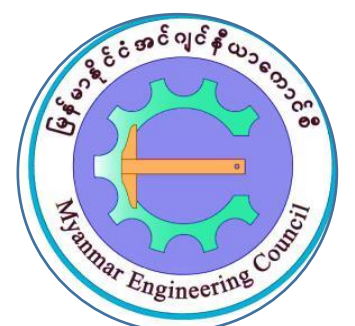


Assessor team (Electronics Engg.) and observers at University of Technology (UTM) Mauritius 29 June 2022

Photos Courtesy of Dr Marlene Kanga, Past President, WFEO



Assessor team (Civil Engg.) and observers at Universite des Mascareignes (UdM) Mauritius 29 June 2022



Mentoring Programs

- Mentoring Tracking Schedules were recorded to monitor the program and for future references. A wiser way was developed to mentoring new economies seeking international recognition of their engineering education systems.
- Completed an initial term of 3 years, Concluded Nov 2022 per MOU between WFEO and IEA. Final meeting was on 23 Feb 2023 and would report to annual IEA meeting June 2023
- CEIE thanks Dr Marlene Kanga Past President, WFEO, UNESCO & IEA for their support and working closely and collaboratively.



ICEEA 2021



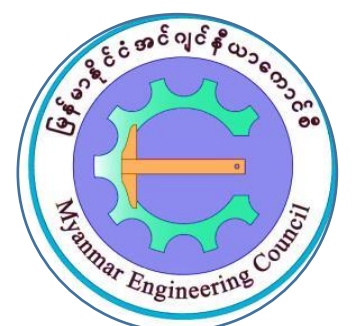
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Myanmar Engineering Council

**International Conference on Engineering Education
Accreditation - ICEEA 2021**

**Quality Engineering Education towards Sustainable
Development**

**held virtually 14, 15 16 January 2021
from 12:30pm to 5pm Myanmar time / 7am to 12:30pm CET**



ICEEA 2021

Delegates and Speakers



ICEEA 2022



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Myanmar Engineering Council

ICEEA 2022, MYANMAR

16th & 17th JULY

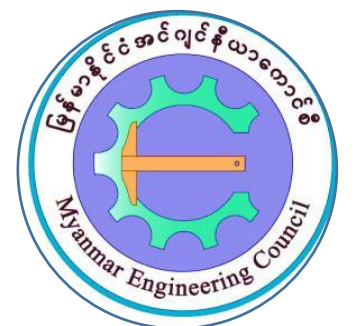


International Conference on Engineering Education Accreditation

Theme: “Quality Engineering Education Towards Engineering the Future”



World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs



ICEEA 2022

Delegates and Speakers



ICEEA 2023

- Myanmar Engineering Council (MEngC), Host of CEIE
- Host ICEEA 2023 Again, Virtually, Tentatively in 6-7 July 2023
- Co-presided by President of MEngC President & Chair of CEIE



IDEAS Journal

Number 20

- 8 papers on Engineering Education from both local and international experts
- Presented at ICEEA 2022

Number 21

- More papers from experts presented at ICEEA 2022
- Tentatively to be published in early June 2023.
- Number 22: Papers from ICEEA 2023

IDEAS

for better education & training for engineers

“QUALITY ENGINEERING
EDUCATION TOWARDS
ENGINEERING
THE FUTURE”

Committee on Education In Engineering
World Federation of Engineering Organisations
Number 20, October 2022





ABOUT US

COURSES

DONATE & SPONSOR

CONTACT US

SELECT LANGUAGE ▼



WFEO ACADEMY

The World Federation of Engineering Organisation's is the peak body of professional engineering institutions internationally with some 100 national, regional and international engineering institutions as members and partners representing more than 30 million engineers.

Ready to get Started?

WFEO Academy

WFEO-CEIE- Sub Committee

- Chair: Dr Marlene Kanga, Past President WFEO
- Representative from Signatories of International Engineering Alliance (IEA)
- Representative from International Federation of Engineering Education Societies (IFEES) and Global Engineering Deans Council (GEDC)
- Representative from WFEO members.

Principle

- UNESCO Open Science Principles
- Essential training at no cost for accreditation bodies/professional engineering institutions, engineering educators and assessors, qualified engineers, technologists and technicians
- Individuals who are members of WFEO Members (National/Affiliate/Associate) can access at no cost



SPRING WFEO EXECUTIVE COUNCIL MEETING



Agenda

WFEO Executive Council Meetings, Madrid Conference and WED2023

	Instituto de la Ingenieria de España			Palace of Cibeles		
Time	Tuesday February 28	Wednesday March 1		Thursday March 2	Friday March 3	Saturday March 4
	IIE	IIE		Palace of Cibeles	Palace of Cibeles	Palace of Cibeles
8:00-8:30	WFEO	WFEO Registration		Madrid2023	Madrid2023	WED2023
8:30-9:00	Registration			Registration	Registration	
9:00-9:30	Governance Committee	Strategic Planning Committee	Committees' Support and Review Group	Madrid 2023 Opening ceremony	Keynote speech	WED_2023 Celebration
9:30-10:00				Keynote speech	Round table 5	
10:00-10:30						
10:30-11:00	Nomination Committee	Break	Break	Break	Break	
11:00-11:30	WURC	Membership Committee	All Committees' Chairs	Round table 1	Round table 6	
11:30-12:00						
12:00-12:30						
12:30-13:00	Lunch	Lunch		Round table 2	Round table 7	Lunch
13:00-13:30				Conclusions	Conclusions	
13:30-14:00	President's Advisors	WFEO Executive Council meeting		Lunch	Lunch	
14:00-14:30						
14:30-15:00	Finance Committee					
15:00-15:30			Round table 3	Round table 8		
15:30-16:00						
16:00-16:30	Executive Board	WFEO Executive Council meeting		Round table 4	Round table 9	
16:30-17:00						
17:00-17:30						
17:30-18:00	Awards Committee				Conclusions	
18:00-18:30					Conclusions	WED 2023 Presentaion
18:30-19:00					Madrid 2022 Closing ceremony	
Evening		WFEO Social Event		Gala Dinner		

WFEO ExCo Meeting

Madrid, Spain from 28 Feb to 4 Mar 2023

- President of MEngC & Chair of CEIE attended
- CEIE Chair Attended all Chairs Meeting on 1 Mar 2023 @ the Offices of IIE Spain
- CEIE Chair Attended Meeting for WEC 2023



CEIE (2024-2027)

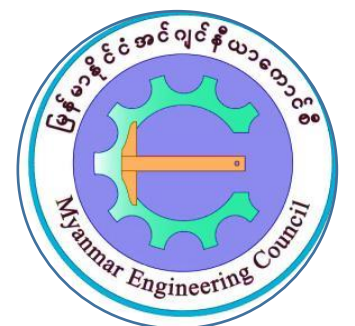
Host Extension by MEngC

- Current Term Expiring in Oct 2023 in WFEO GA in Prague
- MEngC's Desire to Host Another Term
- Have Quarterly Meeting in a year or as necessary
- Updating Strategic Plan – seek input from CEIE members



Thanks for your kind attention

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9595089334





Engr. Prof. Dr. Zaw Min Aung

B.E., M.E., Ph.D.,

Chair, WFEO Committee on Education in Engineering

Executive Committee Member, Myanmar Engineering Council

Chair, Engineering Education Accreditation Committee, Myanmar Engineering Council

Full Member, Myanmar Academy of Technology, The Republic of the Union of Myanmar

Dr. Zaw Min Aung joined Rangoon Institute of Technology (RIT) in March 1992 as Instructor at Electronic Engineering Department. As the subject, he mainly taught on Basic Electrical Engineering subjects at YIT. Then he worked at Mandalay Institute of Technology (MIT) in September 1993. He had worked there for 12 years and he was promoted as Assistant Lecturer, Lecturer, Associate Professor and Professor respectively.

Dr. Zaw Min Aung got his Master Degree from Tottori University, Japan in 2000. He did research on degradation of blue laser diode for his Master Degree. From 2001 to 2005, he did his doctoral research especially on active filters in telecommunication field at Moscow State Engineering Physics Institute, Russia and finally he got Doctorate Degree in 2005. Not only the research papers for Master Degree and Doctorate Degree but also he wrote 27 International Papers concerned with electronic fields.

Furthermore, Dr. Zaw Min Aung served as Rector of West Yangon Technological University from 2005 to 2010. Then he was appointed as Director General for Department of Technical and Vocational Education (DTVE) in August 2010 to February 2013. When he was working as Director General, many human resource development program concerning with technical education were implemented under his supervision and management.

In February 2013, Dr. Zaw Min Aung was appointed as Deputy Minister for Ministry of Science and Technology. He supervised on drawing up science and technology development and policies, human resource development policies. He also guaranteed the implementation programs of departments under Ministry of Science and Technology.

Then he was reshuffled as Deputy Minister for Ministry of Education in July 2013. He participated in drawing up National Education Law, Strategies, Policies and Plans for educational reform and education development. On 31 March 2016, he retired from the Ministry of Education and starts a business in energy field as Chairman of Green Alliance Energy Co., Ltd.

He is currently serving the country as a Full Member of Myanmar Academy of Technology and continues to take part in quality engineering education reform as the Chair of Engineering Education Accreditation Committee of Myanmar Engineering Council.

Dr. Zaw Min Aung is also the Current Chair, WFEO - Committee on Education in Engineering, and also the Chair of the Committee for the proposed next term. Dr. Zaw Min Aung is a recognized and experienced educator and leader of Technical Universities and Government Technical Institutions in Myanmar and has led the process and journey for Myanmar Engineering Council, Engineering Education Accreditation Committee to attain the provision signatory status of the Washington Accord at the IEA.