

**ICEEA 2025,
MYANMAR**



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



WFEO-CEIE

**International Conference on
Engineering Education Accreditation,
ICEEA 2025
(30th & 31st July, 2025)**

**Theme:
"Shaping Our Sustainable Future Through
Engineering"**

Myanmar Engineering Council
No. (5A), Kha Yay Pin Road, Lanmadaw Township, Yangon, Myanmar
Website: <https://iceea2025.org>

Invitation: International Conference on Engineering Education Accreditation, ICEEA 2025, Myanmar

The Myanmar Engineering Council is pleased to announce that the Annual International Conference, ICEEA 2025, will be held virtually in collaboration with the Standing Committee on Education in Engineering (CEIE) of the World Federation of Engineering Organizations (WFEO). The conference is scheduled to take place on July 30th & 31st, 2025.

As our objective is to harness the full potential of engineering through collaboration and knowledge sharing, the Myanmar Engineering Council and the WFEO-Standing Committee on Education in Engineering (CEIE) would like to extend a warmest invitation for your contributions and participations as our honorable guests and speakers in ICEEA 2025.

Message from Emeritus Prof. Dr. Charlie Than, Patron, Myanmar Engineering Council



Dear Esteemed Speakers, Colleagues, and Honored Guests,

*It is my great pleasure to welcome you all to this significant conference convened under the forward-looking theme, "**Shaping Our Sustainable Future Through Engineering.**"*

*This annual event, first convened in 2021, has grown into a platform for advancing conversations and collaborations around **engineering education accreditation**, quality assurance, and the future of the profession in our region and beyond.*

*This conference has aimed to support the continuous development of **engineering education systems** that are **outcome-based, internationally benchmarked, and aligned with the principles of the Washington Accord, the FEIAP Education Guidelines, and the Sustainable Development Goals (SDGs)**. Each year, we reaffirm our shared commitment to cultivating excellence in engineering programs through **accreditation frameworks**.*

Today, the world is facing some of the most profound challenges in history — climate change, energy transitions, water scarcity, food security, digital divides, and increasing social inequities.

***Engineering is no longer only about solving problems — it is about shaping possibilities.** It is about designing systems and solutions that are not only efficient and innovative, but also **ethical, sustainable, and inclusive**.*

This conference brings together bright minds and committed hearts from across the engineering community: educators, professionals, researchers, and decision-makers. Together, we can rethink how engineering education, research, and practice can better serve humanity and our planet.

Through our sessions, workshops, and dialogues, we will explore how engineering can:

- *Enable the **achievement of the Sustainable Development Goals (SDGs)**,*
- *And transform engineering education to produce graduates who are not only technically competent, but also socially responsible and globally aware.*

Let us use this conference as a catalyst — for exchanging ideas, forming meaningful partnerships, and charting actionable paths forward. Let it be a celebration of our progress, and a reminder of the urgent work that still lies ahead.

Thank you, and I wish you all a fruitful and inspiring conference.

*Emeritus Prof. Dr. Charlie Than
Patron, Myanmar Engineering Council*

Message from Engr. Prof. Dr. U Nyi Hla Nge, Patron, Myanmar Engineering Council



Dear Eminent Speakers, Fellow Engineers and Interested Participants,

*The Myanmar Engineering Council heartily welcomes distinguished guests, local and international keynote speakers and paper presenters, educators, engineers, students and all those interested in the most relevant and pressing ICEEA theme of this year: **Shaping Our Sustainable Future Through Engineering.***

*The key words are “**sustainable**” and “**engineering**”. Most of us may be aware of the fact that the United Nations adopted in 2015 **The 2030 Agenda for Sustainable Development** in which 17 Sustainable Development Goals (SDGs) and 169 Targets to be achieved by 2030 have been identified. In short, the aim of these global goals is **peace and prosperity for people and the planet.***

It is interesting to note that 9 out of 17 SDGs and 37 out of 169 Targets are directly or strongly engineering-related. It clearly indicates that engineers have to take the lion’s share of responsibility in trying to achieve the stipulated UN SDGs. For that purpose, we need a lot of well-qualified and competent engineers worldwide.

*If we want to successfully shape our sustainable future we need to strengthen two core pillars — one is **relevant engineering education** and the other is **good engineering practice**, both of which placing due emphasis on sustainability aspects as well.*

It is hoped that the participants of this conference will discuss these matters extensively and arrive at fruitful and innovative ideas, thoughts and suggestions in the end.

*Finally, again, MEngC will be very glad to welcome all interested participants from far and near who can join, in person or online, our grand event ICEEA 2025 to be held in Myanmar on **30th and 31st July, 2025.***

Thanks and ALL THE BEST!

*Engr. Prof. Dr. U Nyi Hla Nge
Patron, Myanmar Engineering Council*

Message from Prof. Dr. Aung Kyaw Myat, President, Myanmar Engineering Council & Federation of Engineering Institutions of Asia and the Pacific (FEIAP)



“Excellencies, Comrade Engineers, Ladies and Gentlemen,

On behalf of the Organizing Committee of the International Conference on Engineering Education Accreditation (ICEEA 2025 Myanmar), it is my great honor to extend my warmest greetings and heartfelt welcome to all esteemed speakers and participants.

*This year’s conference is held under the theme **“Shaping Our Sustainable Future Through Engineering”** reflecting our shared commitment to positioning engineering education at the forefront of global efforts to achieve the United Nations 2030 Agenda for Sustainable Development Goals (SDGs).*

ICEEA 2025 is envisioned as a vital platform that will convene distinguished experts, educators, industry leaders, policymakers, and emerging professionals to collectively explore how engineering education can address pressing global challenges and contribute to building a resilient, inclusive, and sustainable future.

Our mission is clear: to elevate the role of engineering education in shaping transformative solutions that are socially responsible, environmentally sound, and technologically innovative. Through keynote speeches, and technical presentations, this conference aims to inspire collaboration and generate actionable insights that empower engineers to lead positive change.

The SDGs, spanning areas such as clean energy, infrastructure, water and sanitation, climate action, and quality education, cannot be achieved without the deep engagement of the engineering community. Engineers must be equipped not only with technical expertise but also with the mindset to design sustainable systems that uplift communities and protect the planet. Myanmar Engineering Council with the collaboration of WFEO-CEIE try utmost in upgrading Engineering Education System in Myanmar Technological Universities.

Myanmar has been making steady progress on this front, and as of 2025, 25 engineering programs have achieved compliance with the FEIAP Stage II standards. These achievements underscore Myanmar’s growing alignment with international benchmarks in engineering education and our commitment to developing globally competent and socially responsible engineers.

As President of the Myanmar Engineering Council, I am deeply honored to welcome all participants to this meaningful event. The diverse perspectives and rich expertise each of you brings—whether from academia, industry, government, or research—will greatly enrich our conversations and inspire bold, forward-thinking approaches to engineering education.

Thank you.

*Prof. Dr. Aung Kyaw Myat
President, Myanmar Engineering Council
President, Federation of Engineering Institutions of Asia and the Pacific (FEIAP)”*

Message from Prof. Dr. Zaw Min Aung, Chair, Standing Committee on Education in Engineering (CEIE), World Federation of Engineering Organizations (WFEO)



I am delighted to convey this message on behalf of the organizing committee of the 5th Annual International Conference on Engineering Education Accreditation (ICEEA) 2025. It is my great pleasure to welcome you to this pivotal conference, organized jointly by the Myanmar Engineering Council (MEngC) and the World Federation of Engineering Organizations-Committee on Education in Engineering (WFEO-CEIE). Since its inception in 2021, ICEEA has grown into a cornerstone event for the global engineering education community. I share your enthusiasm for this milestone edition and invite you to reflect on its profound significance for our collective mission.

ICEEA 2025 is dedicated to advancing cutting-edge research, theoretical insights, and future-oriented strategies for enhancing engineering education and its role in developing sustainable solutions. This conference offers a dynamic platform to exchange ideas, explore innovative opportunities, reconnect with peers, forge new collaborations, and expand professional horizons.

*The international stature of ICEEA is underscored by our distinguished lineup of speakers, who will share pioneering perspectives aligned with this year's theme: **"Shaping Our Sustainable Future Through Engineering"**. Together, we will navigate diverse topics in engineering education, emphasize human-context interactions in engineering solutions, and catalyze scientific collaboration.*

The Conference Organizing Committee (MEngC) in partnership with the ICEEA Sub-Committee, have curated a stimulating program. Over two days, you will engage with approximately "20 presentations", including keynote addresses from global thought leaders. These sessions spotlight current research challenges and breakthroughs, fostering open dialogue on transforming engineering education.

Post-Conference Impact:

- Research presented at ICEEA 2025 will be published in the annual IDEAS Journal, extending the reach of "Better Engineering Solutions" to a worldwide audience.*
- Recorded lectures will be accessible on the WFEO Academy, continuing our tradition of knowledge democratization.*

These initiatives reflect our commitment to collaboration with international experts driving innovation in engineering education. I extend heartfelt gratitude to all authors, speakers, and contributors for energizing ICEEA, enriching the IDEAS Journal, and sustaining the WFEO Academy.

Join us in shaping a sustainable future through engineering education. Your participation ignites progress!

*Prof. Dr. Zaw Min Aung
Chair, Committee on Education in Engineering (CEIE)
World Federation of Engineering Organizations (WFEO)*

About International Conference

Myanmar Engineering Council & Standing Committee on Education in Engineering (CEIE) of World Federation of Engineering Organizations (WFEO) are holding an International Conference on Engineering Education Accreditation (ICEEA 2025) virtually on July 30th and 31st 2025, from 12:00 hr. to 17:00 hr (MMT: UTC+6:30). The Conference deliberations would be on the theme ***“Shaping Our Sustainable Future Through Engineering”***.

ICEEA 2025 is dedicated to exploring the latest trends, innovations, and challenges in engineering education.

ICEEA 2025 Plenary Speakers: International and Myanmar Engineering Education and Practice Leaders, Engineering Professionals from the World Federation of Engineering Organizations (WFEO), International Engineering Alliance (IEA), IEET, EA, Federation of Engineering Institutions of Asia and the Pacific (FEIAP), Pakistan Engineering Council (PEC), Board of Engineers Malaysia (BEM), Institute of Engineers Malaysia (IEM), AFEO, National Board of Accreditation India, and among other higher education institutions in the country.

Location : Myanmar Engineering Council
No (5A), Kha Yay Pin Street, Lanmadaw Township, Yangon,
Myanmar

Email Address : secretariat.ceie@myanmarengc.org
accreditation@myanmarengc.org

For More Information : <https://iceea2025.org/>

Speakers and Topics

<i>Emeritus Prof. Dr. Charlie Than</i>	<i>Opening Address</i>
<i>Engr. U Aye Myint</i>	<i>Words of Thanks & Closing</i>
<i>Engr. Prof. Dr. U Nyi Hla Nge</i>	<i>Opening Address</i>
<i>Mr. Mustafa B. Shehu</i>	<i>Opening Message</i>
<i>Prof. Kai Sang LOCK</i>	<i>Shaping Our Sustainable Future Through Engineering Education</i>
<i>Dr. Marlene Kanga</i>	<i>Professional Development and Lifelong Learning: The Role of the WFEO Academy</i>
<i>Dr. Mandy Liu</i>	<i>Training the Future Engineer for a Sustainable World</i>
<i>Ir. Academician Emeritus Professor Tan Sri Dato Seri Dr. Chuah Hean Teik</i>	<i>Sustainable Development via Engineering</i>
<i>Prof. Jürgen Kretschmann</i>	<i>Work-integrated engineering education for sustainable mining</i>
<i>Dr. Rodrigo Pérez Fernández</i>	<i>Engineering Tomorrow: Shaping a Sustainable Future</i>
<i>Mr. Wahidullah Aziz</i>	<i>Engineering Skills for a Safer Future: Insights from GECR 2025 and Beyond</i>
<i>Engr. Dr. Wasim Khaliq</i>	<i>Shaping Our Sustainable Future Through Engineering</i>
<i>Engr. Dr. Yasar Ayaz</i>	<i>Artificial Intelligence and its Role in Engineering Accreditation</i>
<i>Ir. Professor Dr. Jeffrey Chiang</i>	<i>Sustaining Relevancy of Professional Engineering Institutions in the Age of Digital Transformation and Globalisation</i>
<i>Prof. Yashin Brijmohan</i>	<i>Usefulness of the Universal Competency Taxonomy for Policy, Accreditation, and Curriculum Evaluation for a Sustainable Future</i>
<i>FEDERICO "FRED" A. MONSADA</i>	<i>Plenary Presentation</i>
<i>Dr. Lincoln A Wood</i>	<i>Engineering as a Social Profession</i>
<i>Assoc. Prof. Ir. Dr. Hasril Hasini</i>	<i>Stirring young minds through sustainability-based Integrated Design Project</i>
<i>Professor Bashar Tarawneh</i>	<i>Shaping the Engineers of Tomorrow: How Accreditation Standards Can Drive Sustainable Development in Engineering Education</i>
<i>Prof. Eng. Simiyu Sitati</i>	<i>Impact of Kenya's admission to Provisional Signatory Status of Washington Accord to the Kenyan Engineering Education Landscape</i>
<i>Prof. Che Khairil Izam Che Ibrahim</i>	<i>Building Sustainability from the Ground Up: Embedding Design for Safety (DfS) in Engineering Education</i>
<i>Ir. Fam Yew Hin</i>	<i>Powering Sustainability in Electricity Sector</i>
<i>Ir. Yau Chau Fong</i>	<i>Plenary Presentation</i>
<i>Engr. Dr. ASAD ARFEEN</i>	<i>Towards Sustainable and Cost-Effective Data Center Network Infrastructure with Performance Optimization</i>

Programmes on 30th July, 2025 (Wednesday)

Time (MMT)	Activity	Speaker
12:00 ~ 12:20 (20 mins)	Opening Announcement	
	Opening Address	Emeritus Prof. Dr. Charlie Than , Patron, Myanmar Engineering Council
12:20 ~ 12:30 (10 mins)	Opening Message	Prof. Dr. Aung Kyaw Myat , President, Myanmar Engineering Council (MEngC) & Federation of Engineering Institutions of Asia and the Pacific (FEIAP)
12:30 ~ 12:40 (10 mins)	Opening Message	Mr. Mustafa B. Shehu , President, World Federation of Engineering Organizations (WFEO)
12:40 ~ 13:10 (30 mins)	Keynote Presentation	Prof. Kai Sang LOCK , Chair, Washington Accord, International Engineering Alliance (IEA)
13:10 ~ 13:40 (30 mins)	Keynote Presentation	Dr. Marlene Kanga , President (2017-2019), World Federation of Engineering Organizations (WFEO)
13:40 ~ 14:10 (30 mins)	Keynote Presentation	Dr. Mandy Liu , CEO, IEET
14:10 ~ 14:40 (30 mins)	Keynote Presentation	Ir. Academician Emeritus Professor Tan Sri Dato Seri Dr. Chuah Hean Teik , Chairman of Standing Committee on Engineering Education, Federation of Engineering Institutions of Asia and the Pacific (FEIAP)
14:40 ~ 14:50 (10 mins)	Health Break	
14:50 ~ 15:10 (20 mins)	Keynote/ Plenary Presentation	Prof. Jürgen Kretschmann , WFEO First Distinguished Fellow & President of the TH Georg Agricola University and Chairman of the Board of DMT-Lehre und Bildung GmbH, Bochum, Germany
15:10 ~ 15:30 (20 mins)	Keynote/ Plenary Presentation	Dr. Rodrigo Pérez Fernández , Profesor, Departamento de Arquitectura, Construcción y Sistemas Oceánicos y Navales
15:30 ~ 15:50 (20 mins)	Keynote/ Plenary Presentation	Mr. Wahidullah Azizi , Programme Manager, Engineering X Skills for Safety Programme, Royal Academy of Engineering
15:50 ~ 16:10 (20 mins)	Keynote/ Plenary Presentation	Engr. Dr. Wasim Khaliq , Principal of the NUTECH School of Engineering and Technology at the National University of Technology, Islamabad, Pakistan
16:10 ~ 16:30 (20 mins)	Keynote/ Plenary Presentation	Engr. Dr. Yasar Ayaz , Professor, National University of Sciences and Technology (NUST), Pakistan
16:30 ~ 16:40 (10 mins)	Words of Thanks & Appreciation	Prof. Dr. Zaw Min Aung , Chair, Committee on Education in Engineering, World Federation of Engineering Organizations (WFEO)
Moderators : (1) Prof. Dr. Zaw Min Aung (2) Prof. Dr. Mya Mya Oo (3) Engr. Tin Latt (4) Prof. Dr. May Myat Khine		

Programmes on 31 July, 2025 (Thursday)

Time (MMT)	Activity	Speaker
12:00 ~ 12:20 (20 mins)	Opening Announcement	
	Opening Address	Engr. Prof. Dr. U Nyi Hla Nge , Patron, Myanmar Engineering Council
12:20 ~ 12:40 (20 mins)	Keynote/ Plenary Presentation	Ir. Professor Dr. Jeffrey Chiang , Chairman, ASEAN Federation of Engineering Organisations (AFEO), and President of The Institution of Engineers Malaysia (IEM)
12:40 ~ 13:00 (20 mins)	Keynote/ Plenary Presentation	Prof. Yashin Brijmohan , Vice President of the World Federation of Engineering Organisations (WFEO)
13:00 ~ 13:20 (20 mins)	Keynote/ Plenary Presentation	FEDERICO "FRED" A. MONSADA , President, Philippine Technological Council
13:20 ~ 13:40 (20 mins)	Keynote/ Plenary Presentation	Dr. Lincoln A Wood , Engineers Australia
13:40 ~ 14:00 (20 mins)	Keynote/ Plenary Presentation	Assoc. Prof. Ir. Dr. Hasril Hasini , Deputy Dean (Academic & International), College of Engineering, Universiti Tenaga Nasional, MALAYSIA
14:00 ~ 14:20 (20 mins)	Keynote/ Plenary Presentation	Professor Bashar Tarawneh , Professor Bashar Tarawneh, Dean of Faculty of Engineering, Al-Ahliyya Amman University (AAU) in Amman, Jordan
14:20 ~ 14:30 (10 mins)	Health Break	
14:30 ~ 14:50 (20 mins)	Keynote/ Plenary Presentation	Prof. Eng. Simiyu Sitati , Member, Committee on Education in Engineering
14:50 ~ 15:10 (20 mins)	Keynote/ Plenary Presentation	Prof. Che Khairil Izam Che Ibrahim , Dean, Faculty of Civil Engineering, Universiti Teknologi MARA MALAYSIA
15:10 ~ 15:30 (20 mins)	Keynote/ Plenary Presentation	Ir. Fam Yew Hin , Board Member of the Board of Engineers Malaysia
15:30 ~ 15:50 (20 mins)	Keynote/ Plenary Presentation	Ir. Yau Chau Fong , Institute of Engineers, Malaysia
15:50 ~ 16:10 (20 mins)	Keynote/ Plenary Presentation	Engr. Dr. ASAD ARFEEN , Associate Professor, Department of Computer and Information Systems Engineering, NED University of Engineering & Technology, Karachi, Pakistan
16:10 ~ 16:20 (10 mins)	Thanks & Appreciation	Engr Dr. Nasir M. Khan (Pride of Performance) , Chair of ICEEA 2025 Hosted by Committee on Education in Engineering
16:20 ~ 16:30 (10 mins)	Words of Thanks & Closing	Engr. U Aye Myint , Patron, Myanmar Engineering Council
Moderators : (1) Prof. Dr. Zaw Min Aung (2) Prof. Dr. Mya Mya Oo (3) Engr. Tin Latt (4) Prof. Dr. May Myat Khine		

Contact Detail & Link

Date	:	30th July and 31st July, 2025
Time	:	12:00 hr. to 17:00 hr. daily (MMT: UTC + 6:30)
Location	:	MEngC, Server Myanmar Engineering Council Headquarter No (5A), Kha Yay Pin Street, Lanmadaw Township, Yangon, Myanmar
Email Address	:	<u>secretariat.ceie@myanmarengc.org</u> <u>accreditation@myanmarengc.org</u>
For More Information	:	<u>https://iceea2025.org/</u>