



# PROPOSAL TO HOST STANDING COMMITTEE ON EDUCATION IN ENGINEERING

Myanmar Engineering Council

Myanmar Engineering Council http://www.myanmarengc.org/



# Myanmar Engineering Council

 'To hold paramount the safety, health and welfare of the public' No. (5/A), Kha Ya Pin Street, Lannmataw Township, Yangon, Myanmar.
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4 July 2020

Prof. Gong Ke President World Federation of Engineering Organizations

## Subject: Proposal to Host Committee for Engineering Education

Dear Prof. Gong Ke,

As requested, Myanmar Engineering Council is pleased to submit its proposal to host the WFEO Committee for Engineering Education. Our proposal meets the requirements specified by WFEO and we have the resources and funds to host a successful Committee. Our proposal is supported by the Government of the Republic of the Union of Myanmar, Ministry of Construction, to support the work of the Committee.

The proposed chair is Prof. Dr. Charlie Than, President Myanmar Engineering Council and a recognized leader in engineering education in Myanmar.

Myanmar Engineering Council is ready to commence the work of the Committee and looks forward to a favorable decision.

Yours sincerely,

Charlie Show 4.7.20.

Prof. Dr. Charlie Than, President Myanmar Engineering Council

wfeo / yht



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# WFEO- WORLD FEDERATION OF ENGINEERING ORGANIZATIONS

# PROPOSAL TO HOST STANDING COMMITTEE ON ENGINEERING EDUCATION

## July 2020

Myanmar Engineering Council, national member for Myanmar, would like to submit a proposal to host Committee for Engineering Education from 2019 to 2023 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.

WFEO has a Memorandum of Understanding (MoU) with IEA and other international engineering organizations involved in engineering education.

The engineering institutions of the world recognize the critical need for more engineers with the skills that are required for modern industry and to advance the UN Sustainable Development Goals. Engineers are needed in increased numbers for the growth and development of essential infrastructure such as roads, railways bridges, dams, and for improved outcomes on water, energy, environment, sustainable cities, natural disaster resilience and other areas.

WFEO and IEA are bringing together their members and partner organizations to:

- a. Discuss and develop a global engineering education standard that reflects the development of new technologies and engineering disciplines and includes contemporary values such as sustainable development and ethics.
- b. Extend the global reach of the IEA Agreements and Accords through efforts that support the development of a range of engineering education systems, appropriate to each country, to comply with agreed standards and the development of strong institutions for accreditation of engineering education and the development of professional engineering institutions to support engineers' education and recognition of professional credentials.

# 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 for Engineering Education 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 for Engineering Education is to

- a. support the review of engineering education benchmarks that will provide the required engineering skill for engineering graduates attributes and professional competencies today and tomorrow and
- b. support engineering education by mentoring and developing the standards of engineering education institutions and accreditation bodies to international standards to ensure that member nations have more engineers with the right engineering skills.
- c. Encourage the development of professional engineering institutions that are the members of WFEO to have sound governance and training programs to support the individual engineers that are their members with professional development and lifelong learning opportunities.
- 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.

In this work, the Committee for Engineering Education will activate the MoU with the International Alliance and work with the IEA to achieve the mission of the Committee and to deliver training and development programs in collaboration with the other international partners of WFEO.

# 3. FOCUS ON THE UN SUSTAINABLE DEVELOPMENT GOALS

The key focus of the Committee for Engineering Education 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 the members, standing committees, working groups and partners of WFEO including the International Engineering Alliance (IEA) to ahrive 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.

# **4 OBJECTIVES AND ACTIVITIES**

The key objective and activities of the Committee for Engineering Education are:

a. Bring together leaders in engineering education and professional development, for a recognized global standard for engineering education which will facilitate mutual recognition of qualifications and the mobility of engineers, under the auspices of WFEO, IEA and UNESCO

The *proposed activities* include the review of the engineering education and professional development standards in collaboration with national and international members of WFEO, IEA and other international partners to ensure that these:

- (i) meet the needs of industry and other employers of engineering in the future
- (ii) address new and emerging disciplines in engineering
- (iii) include the values of sustainability, ethics, diversity and inclusion, responsible use of data and other values
- a. The *proposed activities* to upgrade the standards of engineering education will require the Committee to work with the national members of WFEO in Asia, Africa and Latin America to achieve and increase in the numbers of engineers with the appropriate engineering skills to address critical needs for sustainable development.

This work will include mentoring the accreditation bodies and engineering institutions in countries that seek support and develop national engineering systems that are appropriate to local need, culture and systems but also meet the international engineering education benchmarks for graduate attributes and professional competencies that are governed by the International Engineering Alliance.

A specific work program will be developed with WFEO members that nominate for support and will consist of the following tasks:

- (i) Assessment of a country's current systems of engineering education and requirements to achieve IEA signatory status
- (ii) Agree mentors to support countries in the process of making a provisional application to the IEA

- (iii) Train engineering educators to develop the skills and resources for the outcomes required by the IEA standards and train assessors to enable peer review and support for engineering education.
- a. Additional *proposed activities* are to provide training and development to support the work of the professional engineering institutions that are the members of WFEO to support lifelong learning of their members and to enable them to achieve signatory status of the international Agreements that are governed by the International Engineering Alliance.

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.

<u>Working Group 1:</u> Review of Engineering Education benchmarks for Graduate Attributes and Professional Competencies

*Membership*: Representatives of WFEO members and partners and signatories of International Engineering Alliance.

**Working Group 2:** Support for WFEO members who nominate to be mentored to achieve international engineering education standards and IEA Signatory Status at the Accords and Agreements.

*Membership:* Representatives of WFEO members from around the world including the main regions that require support to improve the standard of engineering education and to eventully become signatories at the International Engineering Alliance.

**Working Group 3:** Develop training programs and materials and guidance documents 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 of their members. This will enable them to achieve signatory status of the International Agreements that are governed by the International Engineering Alliance. This will provide international recognition of the professional

credentials for engineers and ensure international recognition of these professional competencies.

*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 for Engineering Education 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 hold 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

A preliminary proposed schedule of outcomes is provided in the tables below. This will be developed further for specific members that are being mentored.

# These outcomes will be worldwide and will have a positive impact on the standards on engineering education and ongoing professional development and competencies, globally.

It is expected that at least two WFEO members will achieve IEA provisional signatory/signatory status of the Accords or Agreements in by Dec 2023 and others will be in progress.

These outcomes will be reported to the Board, Executive Council and members of WFEO and to the signatories of the IEA.

		1
Proposed Outcomes	<u>Timing</u>	
Working Group 1		
Review of IEA Graduate Attributes and Professional Competencies benchmarks		
Initial research on latest trends in engineering education	July-Aug 2020	
Meetings to discuss the changes proposed to the international benchmarks	Aug-Sep 2020	Key outcome is to include UN SDGs and new technologies in the benchmarks
Presentations to members and partners for feedback on proposed changes	Oct-Nov 2020	
Discussions at the IEA and WFEO annual meetings and with WFEO	July-Nov 2020	Key outcome is proposed benchmark for Graduate Attribute and Professional Competencies
Ongoing revision of proposed benchmarks	Jan-May 2021	
Discussions at the IEA and WFEO annual meetings and with WFEO	June - Oct 2021	Presentations and decisions at IEA and WFEO annual meetings
Approval of Benchmarks for Graduate Attributes and Professional Competencies	Dec 2021	Key outcome is approval of new Benchmark for Graduate Attribute and Professional Competencies which is used worldwide
Development of Guidelines for implementation	Jan-Dec 2022	Key outcome is development of Guidance documents to support the new benchmarks which is used worldwide
Discussions at the IEA and WFEO annual meetings and with WFEO	July-Nov 2022	Presentations and decisions at IEA and WFEO annual meetings
Development of exemplars and other supporting documents	Jan- Oct 2023	Key outcome is development of Exemplars to support the new benchmarks which is used worldwide
Discussions at the IEA and WFEO annual meetings and with WFEO	July-Nov 2023	Presentations and decisions at IEA and WFEO annual meetings

## **Proposed Outcomes for the Committee for Engineering Education**

Proposed Outcomes	Timing	
Working Group 2		
Mentoring and support for Nominated		
WFEO Members to achieve the IEA		
Signatory Status of the Accords and/or		
Agreements		
Establish WFEO Members that request		
mentoring support	July-Aug 2020	
		Key outcome is to establish at least two
		mentoring relationships in one or two
Agree mentors with IEA	Aug-Sep 2020	geographic regions
Monitor and support mentoring activities	Oct-Nov 2020	
Report on mentoring activities to IEA and		Key outcome is progress with mentoring for at
WFEO	Nov-2020	least two WFEO members
Ongoing mentoring and support activities	Jan-May 2021	
Discussions at the IEA and WFEO annual		Key outcome is progress with mentoring for at
meetings and with WFEO	June - Oct 2021	least two WFEO members for the IEA Accords
Establish two more mentoring relationships	June - Oct 2021	
		Key outcome is for one member to achieve
Application for provisional signatory status		provision signatory status of an IEA Accord or
by one WFEO supported member, ongoing		Agreement and 3 others to be mentored, in two
mentoring of up to 3 other WFEO members	June 2022	or more geographic regions

Proposed Outcomes	Timing	
Working Group 3		
Development and delivery of training to		
WFEO Members to improve the		
standarads of engineering education in		
accreditation bodies and professional		
engineering institutions to attain		Outline of work is provided below. Detailed
international signatory status of Accords/		program of training workshops and activities will
Agreements		be developed when the Committee is established
Training programs for engineering education		On line/on site at WFEO, IEA and MEngC
assessors, engineering educators and		meetings. Key outcome will be number of
development of professional engineering	July 2020-Dec	meetings held and numbers that are trained
institutions	2020	worldwide and training materials
Training programs for engineering education		On line/on site at WFEO, IEA and MEngC
assessors, engineering educators and		meetings. Key outcome will be number of
development of professional engineering	Jan 2021-Dec	meetings held and numbers that are trained
institutions	2022	worldwide and training materials
Training programs for engineering education		On line/on site at WFEO, IEA and MEngC
assessors, engineering educators and		meetings. Key outcome will be number of
development of professional engineering	Jan 2022-Dec	meetings held and numbers that are trained
institutions	2022	worldwide and training materials
Training programs for engineering education		On line/ on site at WFEO, IEA and MEngC
assessors, engineering educators and		meetings. Key outcome will be number of
development of professional engineering	Jan 2023-Dec	meetings held and numbers that are trained
institutions	2023	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:

	BUDGET	
RESOURCE	(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. Some of the workshops and activities that have been held in the past few years are listed in **Attachment 2** and **3**.

Myanmar Engineering Council has the support of the Government of Myanmar, Ministry of Construction, to support the work of the Committee.

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 proposes Prof. Dr. Charlie Than, President, Myanmar Engineering Council, retired rector of Myanmar Maritime University as the Chair of the Committee. Prof. Dr. Charlie Than 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 Accreditatin Committee to attain the provision signatory status of the Washington Accord at the IEA.

Prof. Dr. Charlie Than has the required skills and experience, the time and capability to serve as the Chair of the Committee for a 4-year term from 2019 to 2023. 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: Myanmar Engineering Council Engineering Education Accreditation Committee: Workshops, Training, Seminars and Activities.** 

**Attachment 3: Myanmar Engineering Council Engineering Education Accreditation Committee: Accreditation On-Site Visit Activities** 

# **Overview of Myanmar Engineering Council**

## 1. Abstract

Myanmar Engineering Council was founded according to 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. Myanmar Engineering Council is a non-profit, non-governmental organization and is the professional body of the Myanmar Engineering Profession. There are 60 elected Council Members and there are 8 working committees in total.

Professional Engineer System has been introduced in Myanmar due to the ASEAN Mutual Reorganization Arrangement on Engineering Service, which has been signed by the government.

The Engineering Education Accreditation Committee (EEAC) represents Myanmar Engineering Council (MengC) as an independent body for the accreditation of engineering programmes in Myanmar.

**The concept** of Myanmar Engineering Council (MengC) is to regulate and promote the dignity, ethics and quality of Myanmar Engineers, Technicians and Technologists who are practicing engineering works.

**The ultimate vision** of Myanmar Engineering Council is to raise education levels to achieve signatory status in Washington Accord, Sydney Accord and Dublin Accord also to become a member of International Engineering agreements.

**The mission** of Myanmar Engineering Council is to hold paramount the safety, health and welfare of the public.

## 2. Development of the Engineering Education in Myanmar

The Myanmar Engineering Education was established in 1924 with a 96 years history of existence.

Firstly, instructors and lecturers of engineering in Myanmar are from India. Then the engineers of Myanmar were sent to foreign countries such as Europe and United States of America to as pursue further studies for the programs in engineering education of Myanmar. After gaining independence, most of the scholars were sent to the technological universities of the United States of America. After the scholars returning back from oversea, the teaching system in engineering was changed from the British System to the US System.

In 1958 when the government of Myanmar gained power, most scholars were sent to the East European countries such as Russia, Yugoslavia, Czechoslovakia, East Germany and Hungary. When the scholars came back to Myanmar, they tried to change the engineering education of Myanmar based on the East European Education System. The university laws in practice are still based on the East European education laws today. However, in spite of the era and system changes, Rangoon Institute of Technology, the leading institute in engineering education in Myanmar, still uses the education system which is based on the US Education System.

In 1988, throughout the period of the military government, many technological universities and colleges emerged. Due to the lack of access to engineering education accreditation and laws regarding the engineering profession to protect the public property, the quality of the engineering education was a decline resulting in the public criticism.

## **3.** Accreditation Experience

In 2004, the Federation of Engineering Institutions of Asia and Pacific (FEIAP) Mentor had visited Myanmar Maritime University (MMU).

In 2009, the Federation of Engineering Institutions of Asia and Pacific (FEIAP) had made the first attempt for the accreditation in Myanmar education system. There are representatives from Chinese Institute of Engineers (CIE) and Institute of Engineering Education of Taiwan (IEET) visited Myanmar to negotiate with the Myanmar Engineering Council. The visit was made again in the following years 2012 and 2013 to conduct education workshops on engineering.

In 2013, the Federation of Engineering Institutions of Asia and Pacific (FEIAP) Mentors with the teams from Taiwan attended the formal visit to MMU and discussion with the team at Yangon Technology University (YTU) which is led by the chairman of Steering Committee.

In 2013, the Myanmar Engineering Council (MEngC) had established as an Accrediting Body for the jurisdiction on 28 November 2013 (State Parliamentary Law 37) in order to develop the Engineering Education in Myanmar.

Myanmar Engineering Council is a non-profit, non-governmental accreditation organisation and it is the regulatory body of Myanmar Engineering Profession.

In 2013, the Engineering Education Accreditation Committee (EEAC) is representing Myanmar Engineering Council (MEngC) as an independent body for the accreditation of engineering programmes in Myanmar.

In 2015, the Engineering Education Accreditation Committee (EEAC) of Myanmar Engineering Council developed the comprehensive Accreditation Manual with the help

of Chinese Institue of Engineers (CIE) and Institute of Engineering and Mangament (IEM).

For **2015-2019** work experiences, *see attachment 2* 

## 4. IEA/WFEO Working Group

Dr. Charlie Than (The President of Myanmar Engineering Council) is a member of IEA/WFEO Working group for the review of the IEA Graduate Attributes and Professional Competencies (GAPC).

## 5. EEAC Accreditation On-Site Visit Activities (*Attachment 3*)

In 2015, the accreditation of engineering programmes is undertaken by the Engineering Education Accreditation Committee (EEAC) at the request of Yangon Technological University (YTU) and Mandalay Technological University (MTU).

In October 2015, the Engineering Education Accreditation Committee (EEAC) evaluators and observers visited 11 Engineering Programmes in Yangon Technology University (YTU) and 7 Engineering Programmes in Mandalay Technology University (MTU).

In 2017, the Engineering Education Accreditation Committee (EEAC) by Myanmar Engineering Council (MEngC) had provisionally accredited 11 Programmes in Yangon Technology University (YTU) and 7 Programmes in Mandalay Technology University (MTU).

In 2018, Myanmar Engineering Council (MEngC) had first applied for Provisional Signatory in International Engineering Alliance (IEA) meetings.

In November 2018, the Engineering Education Accreditation Committee (EEAC) evaluators and reviewers from Board of Engineers Malaysia (BEM) visited Yangon Technology University (YTU) to review the first graduates of Mechanical engineering programmes and petroleum programmes. At the same time, the Engineering Education Accreditation Committee(EEAC) evaluators and reviewer from Board of Engineers Malaysia (BEM) visited MTU to review the first graduates in Civil engineering and Electrical engineering programmes and the Engineering Education Accreditation Committee (EEAC) evaluators and reviewer from University of New South Whales (UNSW) visited the Yangon Technological University (YTU) to review the first graduates at CEIT engineering and Electrical Power programmes.

In January 2019, the Engineering Education Accreditation Committee (EEAC) evaluators and reviewer from IES visited the YTU to review the first graduates at Chemical, Metallurgy and Textile engineering programmes.

In February 2019, Myanmar engineering Council (MEngC) applied for a provisional signatory status of the Washington Accord with complete documentation.

In March 2019, the Engineering Education Accreditation Committee (EEAC) evaluators and reviewer from PEC visited the MTU to review the first graduates at CEIT, Electronic and MCE engineering programmes.



# **Myanmar Engineering Council**

# **Engineering Education Accreditation Committee**

# Workshop, Training, Seminar Activities

(2013 – 2019)

# Myanmar Engineering Council Engineering Education Accreditation Committee Workshops, Trainings, Seminars Activities

1.	26.5.2013~	IEET Engineering Education Accreditation (EAC)
	29.5.2013	
2.	11.11.2013	FEIAP Guidelines and Recent Development in International Engineering
		Accreditation
3.	15.2.2014	IEET WHY Engineering Education Accreditation
4.	2014	2014 FEIAP Workshop (Competence and Mobility of Engineers)
5.	28.3.2015	Program Evaluators Training Workshop (Prof. Liang-Jenq LEU, IEET)
6.	9.5.2015	Preparation for Myanmar Engineering Council Accreditation Course
		Training (Prof. Dr. Charlie Than)
7.	3.10.2015	Program Evaluators Training Workshop (Ir. Prof. Academician Dato'
		Dr. Chuah Hean-Teik, FEIAP)
8.	16.10.2015	Program Evaluators Training Workshop on Operating Environment,
		Quality Systems and Program Design (Prof. Eliathamby Ambikairajah,
		UNSW)
9.	18.1.2016	Engineering Education Evaluators' Training (Prof. Eliathamby Ambikairajah,
		UNSW)
10.	14.2.2016	Program Evaluators Training Workshop (Prof. Dr. Charlie Than)
11.	4.3.2016	Program Evaluators Training Workshop (Ir. Prof. Academician Dato' Dr.
		Chuah Hean-Teik, FEIAP)
12.	29.3.2016	Program Evaluators' Training Workshop (Prof. Liang-Jenq LEU, IEET)
13.	13.8.2016	Rectors' and Principals' Forum on Engineering Education Accreditation
		Workshop (Prof. Liang-Jenq LEU, IEET)
14.	22.9.2016	Outcome-Based Education Training, YTU
15.	8.10.2016	Outcome-Based Eucation Training (Ir. Prof. Academician Dato' Dr. Chuah
		Hean-Teik, FEIAP)
16.	15.11.2016	Post Accreditation Workshop at YTU (Day1) (Prof. Eliathamby Ambikairajah,
		UNSW)
17.	16.11.2016	Post Accreditation Workshop at YTU (Day2) (Prof. Eliathamby Ambikairajah,
		UNSW)

18.	3.12.2016	Workshop on Accreditation of Engineering and Architectural Education
		(Prof. Liang-Jenq LEU, IEET)
19.	12.1.2017	OBE Training at TU(Thanlyin) (Ir. Prof. Academician Dato' Dr. Chuah Hean
		Teik, FEIAP)
20.	13.1.2017	OBE Training at WYTU (Ir. Prof. Academician Dato' Dr. Chuah Hean-Teik,
		FEIAP)
21.	13.1.2017	Workshop on Professionalism & Code of Conduct and Route to Professional
		Engineer at MES (Prof. Tan Yean Chin)
22.	16.2.2017	Workshop on Higher Education Quality Assurance and Opportunity for
		Foreign Students in Taiwan (Prof. Liang-Jenq LEU, IEET)
23.	22.2.2017	Accreditation Board for Engineering and Technology
		(Sayar Gyi Dr. San Hla Aung)
24.	2.7.2017	Inaugural Taiwan-Myanmar Higher Education Presidents' Forum Novotel
		Hotel Max - Yangon, Eureka Ballroom (4F)
25.	22.7.2017	Program Evaluators Training Workshop (Prof. Dr. Charlie Than)
26.	24.7.2017	Engineering Accreditation and Self-Assessment Report Training,
		TU(Thanlyin)
27.	16.8.2017	Engineering Accreditation and Self-Assessment Report Training, WYTU
28.	19.8.2017	Program Evaluators Training Workshop, (Prof. Dr. Charlie Than)
29.	28.8.2017	Workshop on Preparation of Engineering Education Accreditation, MTU
		(Prof. Liang-Jenq LEU, IEET)
30.	30.8.2017	Workshop on Preparation of Engineering Education Accreditation, YTU
		(Prof. Liang-Jenq LEU, IEET)
31.	21.9.2017	Engineering Accreditation and Self-Assessment Report Training, TU
		(Kyaukse)
32.	2.10.2017	Engineering Accreditation and Self-Assessment Report Training, TU
		(Hmawbi)
33.	11.11.2017	MEngC National Workshop on Engineering Education for Engineering
		Technologists & Technicians
34.	27.11.2017	Program Evaluators Training Workshop, (Prof. Dr. Charlie Than)
35.	16.12.2017	Dialogue Session on Engineering Curriculum Design (Prof. Dr. Chuah Hean
		Teik, FEIAP)
36.	21.12.2017	How to Prepare for Washington Accord Outcomes-based Accreditation
		(Prof. Er. LOCK Kai Sang)

37.	22.12.2107	Evidence-Based Onsite Assessment During Accreditation Visits
		(Prof. Er. LOCK Kai Sang)
38.	1~2.2.2018	Workshop on Curriculum Design for Engineering Workshop
		Ir. Prof. Academician Dato' Dr. Chuah Hean-Teik, FEIAP
39.	16.3.2018	Workshop on Accreditation of Architectural Engineering, IEET
40.	16.3.2018	Workshop on Accreditation of IT and Computing-related Education, IEET
41.	17.3.2018	Discussion on Engineering Education Programmed Accreditation for
		Myanmar Engineering Council, IEET
42.	10~11.3.2018	Outcome-Based Education Awareness Training at YTU
43.	25~26.4.2018	Outcome-Based Education Awareness Training at TU(Hmawbi)
44.	3~4.5.2018	Accreditation Special Talk at TU (YCC)
45.	31.5.2018	Accreditation Training Workshop at YTU
46.	14.6.2018	Accreditation Special Talk at WYTU
47.	18~19.6.2018	Outcome-Based Education Awareness Training at TU (Hinthada)
48.	16.7.2018	Discussion on Quality Engineering Education and Challenges
49.	18.7.2018	Engineering Education in Philippines, Engr. Federico A. Monsada
50.	16.8.2018	YTU Benchmarking
51.	25~26.7.2018	Outcome-Based Education Awareness Training at MTU
52.	23.8.2018	Workshop on Outcome-Based Education Assessment and Continuous Quality
		Improvement, Ir. Prof. Academician Dato' Dr. Chuah Hean-Teik, FEIAP
53.	5.9.2018	Outcome-Based Education Awareness Training at TU (Toungoo)
54.	7.9.2018	Programme Evaluator Training Workshop
55.	10~12.9.2018	Designing Engineers for Myanmar's Future (UNSW, UTS, RMIT)
56.	30.10.2018	Workshop on Mobility, Accreditation and Outcome-Based Education for
		Engineering Technologist and Technician, Ir. Prof. Academician Dato' Dr.
		Chuah Hean-Teik, FEIAP
57.	21~22.1.2019	Engineering Education Accreditation Evaluation Workshop By Dr. Lincoln
		Wood (Engineers Australia)

58.	16.2.2019	Workshop on Accreditation Process by Dr. Mandy LEU, IEET
59.	19~20.2.2019	1 <sup>st</sup> NABEEA Conference & Workshop
60.	21.3.2019 ~ 22.3.2019	Outcome-Based Education Awareness Training at TU (Taunggyi)
61.	17~18.6.2019	Workshop on Engineering Education Accreditation towards Washington
		Accord by Dr. Lincoln Adrian Wood, Engineers Australia
62.	10.8.2019	Workshop for Accredited Programs of Public Universities on Continuous
		Improvement by IEET (9:00 AM to 12:00 PM)
63.	10.8.2019	Workshop for Accredited Programs of Public Universities on Continuous
		Improvement by IEET (14:00 to 16:00 PM)
64.	30.8.2019	OBE Assessment and CQI by Prof. Dr. Chuah Hean Teik, FEIAP
65.	21.9.2019	Seminar on "ASEAN Qualifications Reference Framework" by AQRF
		Referencing Expert Andrea Bateman
66.	7.10.2019	Dialogue: The Future of Engineering industry and Education in Myanmar
		Organized by UNSW & UTS & Australian Embassy Myanmar
67.	8~9.10.2019	Workshop Focusing on Assessment by UNSW & UTS

# MEngC Accreditation Experience

- 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)
- Second Second
- 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

# MEngC Accreditation Experience

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

2013-2019 Accreditation Workshops, Trainings, Seminars



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**Myanmar Engineering Society** 

# How to accredited the "Engineering education programs"

Dr. Charlie Than 8.10.13



# FEIAP Guidelines and Recent Development in International Engineering Accreditation

Jia-Yush YEN, PhD Secretary General & Executive Director of Accreditation Council, IEET Dean, College of Engineering Professor of Mechanical Engineering, National Taiwan University 11 November 2013

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中華工程教育學會 EET Institute of Engineering Education Taiwan

# WHY Engineering Education Accreditation

15 February 2014 Yangon, Myanmar

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2014 FEIAP Workshop Yangon, Myanmar February, 2014

# **COMPETENCE AND MOBILITY OF ENGINEERS**

# by Za-Chieh Moh, Sc. D., P.Eng Chair, APEC Engineer Coordinating Committee APEC Engineer FASCE, FICE, FIES, FIEM, FCICHE

# PROGRAM EVALUATORS TRAINING WORKSHOP (CIE/IEET) (28.3.2015)



# Preparation for Myanmar Engineering Council Accreditation Course Training (9.5.2015)



# PROGRAM EVALUATORS' TRAINING WORKSHOP (FEIAP) (3.10.2015)



# Program Evaluators' Training Workshop on Operating Environment, Quality Systems and Program Design (UNSW) (16.10.2015)



Program Evaluators Training Workshop on how to Evaluate the Accreditation Documentation submitted by The University and Preparing Questions (UNSW) (18.1.2016)



# Myanmar Engineering Council Program Evaluators Training Workshop (14.2.2016)



# Outcome – Based Education Training (FEIAP) by (Ir. Prof. Academician Dato' Dr. Chuah Hean Teik, FEIAP) (4.3.2016)



# PROGRAM EVALUATORS TRAINING WORKSHOP (IEET) (29.3.2016)



## Rectors' Forum On Engineering Education Accreditation (IEET) (13.8.2016)



## Outcome-Based Education Training YTU (22.9.2016)



## Outcome – Based Education Training (FEIAP) 8.10.2016



Post Accreditation Workshop for YTU staff : How to prepare for full accreditation and to evaluate staff understanding of OBE via a short test (15~16.11.2016)



## Institute of Engineering Education Taiwan (IEET) Workshop on Accreditation of Engineering and Architectural Education 3.12.2016



## FEIAP Outcome – Based Education Training Technological University (Thanlyin) by (Ir. Prof. Academician Dato' Dr. Chuah Hean Teik, FEIAP) (12.1.2017)



## Outcome – Based Education Training West Yangon Technological University by (Ir. Prof. Academician Dato' Dr. Chuah Hean Teik, FEIAP) (13.1.2017)



## Workshop on Professionalism & Code of Conduct and Route to Professional Engineer by Ir. Tan Yean Chin – President, The Institution of Engineer Malaysia(IEM) – Secretary General (FEIAP) (13.1.2017)



## IEET

## Workshop on Higher Education Quality Assurance and Opportunity for Foreign Students in Taiwan (16.2.2017)



#### Accreditation of Engineering Program At U.S. Universities Workshop Dr. San Hla Aung 22.2.2017



## 2017 Inaugural Taiwan-Myanmar Higher Education Presidents' Forum (2.7.2017)



## Program Evaluators Training Workshop (22.7.2017)



#### Engineering Accreditation and Self Assessment Report Training TU (Thanlyin) (24.7.2017)



#### Engineering Accreditation and Self Assessment Report Training WYTU (16.8.2017)



#### Program Evaluators Training Workshop (19.8.2017)



### Mandalay Technological University Workshop on Preparation of Engineering Education Accreditation By IEET (28.8.2017)



## Yangon Technological University Workshop on Preparation of Engineering Education Accreditation by IEET (30.8.2017)



#### Engineering Accreditation and Self Assessment Report Training TU (Kyaukse) (21.9.2017)



#### Engineering Accreditation and Self Assessment Report Training TU (Hmawbi) (2.10.2017)



## MEngC National Workshop on the Engineering Education for Engineering Technologists & Technicians (11.11.2017)



#### Program Evaluators Training Workshop (27.11.2017)



## **Dialogue Session on Engineering Curriculum Design by** (Ir. Prof. Academician Dato' Dr. Chuah Hean Teik, FEIAP) (16.12.2017)



How to Prepare for Washington Accord OBE Accreditation and Evidence-Based Onsite Assessment During Accreditation Visit by Prof. LOCK Kai Sang (21.12.2017) ~ (22.12.2017)



Workshop on Curriculum Design for Engineering Workshop by Ir. Prof. Academician Dato' Dr. Chauh Hean-Teik (FEIAP) (1.2.2018) ~ (2.2.2018)



#### Workshop on Accreditation of Architectural Engineering by IEET (16.3.2018)



#### Workshop on Accreditation of IT and Computing-related Education by IEET (16.3.2018)



#### IEET

# Discussion on Engineering Education Programmed Accreditation (17.3.2018)



#### Outcome – Based Education Awareness Training at YTU (10.3.2018 ~ 11.3.2018)



#### Outcome – Based Education Awareness Training at TU (Hmawbi) (26.4.2018)



#### Outcome – Based Education Awareness Training at TU (Hmawbi) (26.4.2018)



### Accreditation Training Workshop UT (Yatadarpon Cyber City)



(3.5.2018) ~ (4.5.2018)

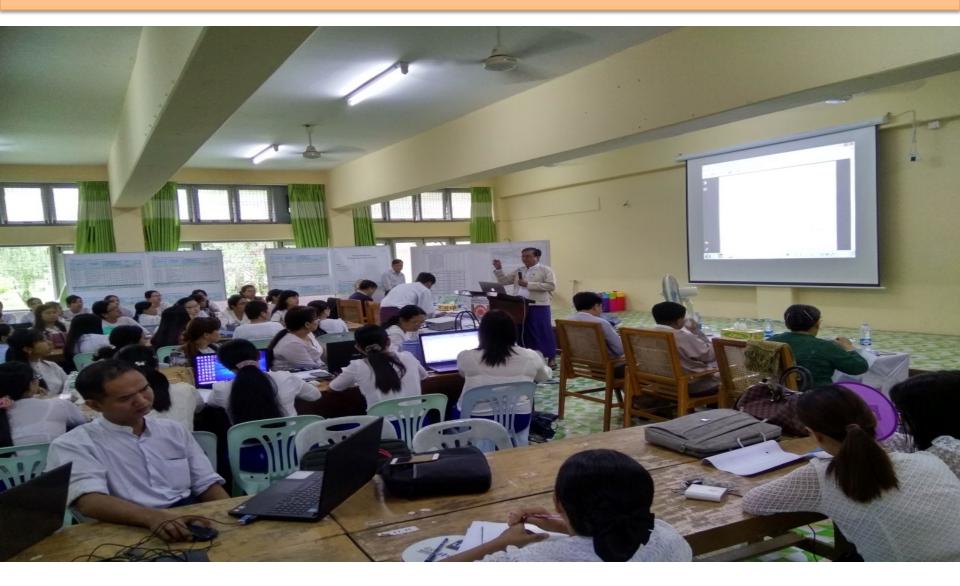
#### Outcome – Based Education Awareness Training at TU (Hmawbi) (26.4.2018)



## YTU OBE Awareness Training (31.5.2018)



## WYTU OBE Awareness Training (14.6.2018)



## TU (Hinthada) Accreditation Training Workshop (18.6.2018) ~ (19.6.2018)



# Discussion on Quality Engineering Education and Challenges (16.7.2018)



### Engr. Federico A. Monsada, President, PTC Engineering Education in Philippines (18.7.2018)



### YTU Benchmarking (16 Aug 2018)



### Outcome – Based Education Awareness Training at MTU (25.7.2018 ~ 26.7.2018)



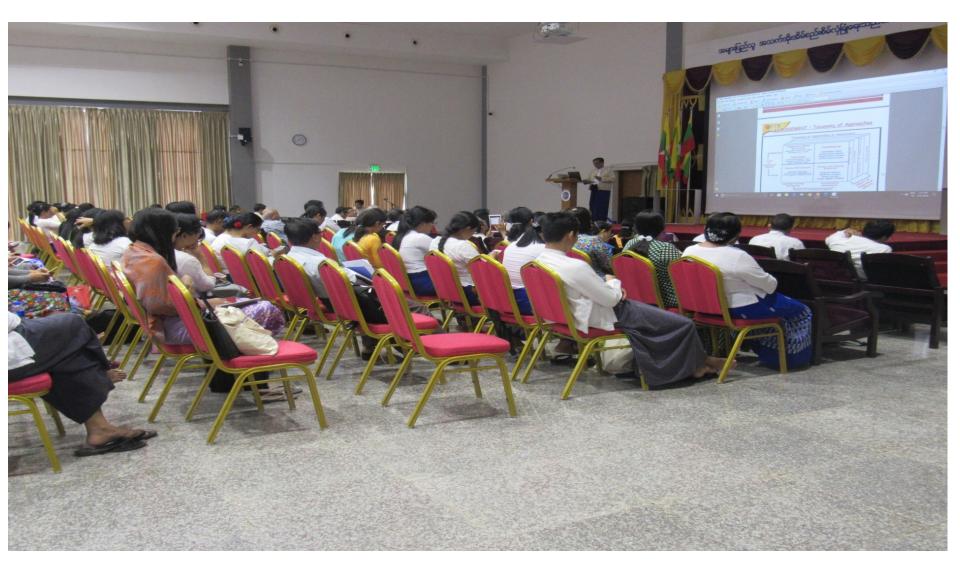
### FEIAP OBE Assessment and CQI (23.8.2018)



### Outcome – Based Education Awareness Training at TU (Toungoo) (5.9.2018)



### Programme Evaluator Training Workshop (7.9.2018)



Designing Engineers for Myanmar's Future 4 Professors from UNSW, UTS and RMIT University (10.9.2018) ~ (12.9.2018)



Workshop on Mobility, Accreditation and Outcome-Based Education for Engineering Technologist and Technician, Ir. Prof. Academician Dato' Dr. Chuah Hean-Teik, FEIAP (30.10.2018)



### Engineering Education Accreditation Evaluation Workshop by Dr. Lincoln Adrian Wood, Engineers Australia 21.1.2019 ~ 22.1.2019



# Workshop on Accreditation Process by Dr. Mandy LEU, IEET (16.2.2019)



# 1<sup>st</sup> NABEEA CONFERENCE & WORKSHOP (19.2.2019 ~ 20.2.2019)



Workshop on Engineering Education towards Washington Accord by Dr. Lincoln A Wood, Engineers Australia (17.6.2019 ~ 18.6.2019)



### Workshop on Accredited Programme of Public Universities on Continuous Improvement by IEET (10.8.2019)



### Workshop on Accredited Programme of Private Universities on Continuous Improvement by IEET (10.8.2019)



### OBE Assessment and CQI by Prof. Dr. Chuah Hean-Teik (FEIAP) (30.8.2019)



### Seminar on ASEAN Qualifications Reference Frameworks by *Andrea Bateman, AQRF Referencing Expert* (21-9-2019)



### Dialogue Session: "The Future of Engineering Industry and Education in Myanmar" by UNSW & UTS 7.10.2019



### Workshop Focusing on Assessment by UNSW & UTS (8.10.2019 ~ 9.10.2019)





### **Myanmar Engineering Council**

### **Engineering Education Accreditation Committee**

### **Accreditation On-Site Visit Activities**

2015-2019

### Myanmar Engineering Council Engineering Education Accreditation Committee Accreditation On-Site Visit Activities

1.	26.10.2015 ~ 27.10.2015	YTU Accreditation on Site Visit	
2.	29.1.2016	1st Accreditation(Provisionally) Award Ceremony	
3.	10.2.2016 ~ 11.2.2016	YTU Accreditation On-Site Visit	
4.	14.9.2016	Accreditation Review Visit from PEC, FEIAP Reviewer	
5.	25.10.2016	Accreditation Review Visit from IES, FEIAP Reviewer	
6.	7.5.2017	2 <sup>nd</sup> Accreditation(Provisionally) Award Ceremony	
7.	30.10.2017 ~ 31.10.2017	MTU Accreditation On-Site Visit	
8.	29.11.2017 ~ 30.11.2017	MTU Accreditation On-Site Visit	
9.	12.12.2017 ~ 13.12.2017	Technological University (Thanlyin) Accreditation On-	
		Site Visit	
10.	28.12.2017 ~ 29.12.2017	Technological University (Kyaukse) Accreditation On-	
		Site Visit	
11.	28.12.2017 ~ 29.12.2017	YTU Accreditation on Site Visit	
12.	25.1.2018 ~ 26.1.2018	YTU Accreditation on Site Visit	
13.	29.7.2018	3 <sup>rd</sup> Accreditation(Provisionally) Award Ceremony	
14.	10.10.2018 ~ 11.10.2018	TU(Hmawbi) Accreditation On-Site Visit	
15.	16.10.2018 ~ 17.10.2018	WYTU Accreditation On-Site Visit	
16.	31.10.2018 ~ 1.11.2018	TU(Thanlyin) Accreditation On-Site Visit	
17.	6.11.2018 ~ 7.11.2018	TU (Toungoo) Accreditation On-Site Visit	
18.	12.11.2018 ~ 13.11.2018	MTU Accreditation On-Site Visit (BEM Reviewer)	
19.	14.11.2018 ~ 15.11.2018	YTU Accreditation On-Site Visit by (BEM Reviewer)	
20.	26.11.2018 ~ 27.11.2018	YTU Accreditation On-Site Visit by (UNSW Observer)	
21.	16.2.2019	Accreditation Decision Meeting (IEET Observer)	
22.	25.2.2019 ~ 26.2.2019	MTU Accreditation On-Site Visit (IES, FEIAP	
		Reviewer)	
23.	1.4.2019 ~ 2.4.2019	MTU Accreditation On-Site Visit by (PEC, FEIAP	
		Reviewer)	
24.	23.10.2019 ~ 24.10.2019	TU (Monywa) Accreditation On-Site Visit	
25.	6.11.2019 ~ 7.11.2019	TU (Toungoo) Accreditation On-Site Visit	
26.	27.11.2019 ~ 28.11.2019	TU (Taunggyi) Accreditation On-Site Visit	

27.	4.12.2019	Attachment - 3 Mandalay Technological University Interim
		Accreditation On-Site Visit
28.	4.12.2019 ~ 5.12.2019	TU (Mandalay) Accreditation On-Site Visit
29.	11.12.2019 ~ 12.12.2019	TU (Thanlyin) Accreditation On-Site Visit
30.	19.12.2019 ~ 20.12.2019	TU (Maubin) Accreditation On-Site Visit
31.	23.12.2019	YTU Interim Accreditation On-Site Visit

### **EEAC Accreditation On-Site Visit Activities**

 2015 Accreditation of engineering programmes is undertaken by the EEAC at the request of Yangon Technological University (YTU) and Mandalay Technological University (MTU)

- Oct, 2015 EEAC evaluators and observers visited YTU 11 Programmes and MTU – 7 Programmes to review 7 engineering programmes
- 2017 YTU 11 Programmes and MTU 7 Programmes had Provisionally Accredited by EEAC, MEngC
- 2018 MEngC first applied for Provisional Signatory in IEA Meetings

### **EEAC Accreditation On-Site Visit Activities**

Nov, 2018 EEAC evaluators and reviewer from Board of Engineers Malaysia (BEM) visited YTU to review the first graduates at 2 engineering programmes (Mechanical, Petroleum)

Nov, 2018 EEAC evaluators and reviewer from Board of Engineers Malaysia (BEM) visited MTU to review the first graduates at 2 engineering programmes (Civil, Electrical Power)

Nov, 2018 EEAC evaluators and reviewer from UNSW visited the YTU to review the first graduates at 2 engineering programmes (CEIT, Electrical Power)

### **EEAC Accreditation On-Site Visit Activities**

- Jan, 2019 EEAC evaluators and reviewer from IES visited the YTU to review the first graduates at 3 engineering programmes (Chemical, Metallurgy, Textile)
- Feb, 2019 MEngC applied for a provisional signatory status of the Washington Accord with complete documentation
- Mar, 2019 EEAC evaluators and reviewer from PEC visited the MTU to review the first graduates at 3 engineering programmes (CEIT, Electronic, MCE)

# **Full Accredited Programmes - 18**

**4** Mandalay Technological University - 7

## **Provisionally Accredited Programmes - 26**

4 Technological University (Hmawbi) - 6

4 West Yangon Technological University

4 Technological University (Thanlyin)

**4** Technological University (Taungoo)

- 6

- 6

# 2019 Accreditation On-Site Visit Programmes - 27

4 Technological University (Monywa)	- 7
Technological University (Toungoo)	- 2
4 Technological University (Taunggyi)	- 6
4 Technological University (Mandalay)	- 6
Technological University (Thanlyin)	- 2
4 Technological University (Maubin)	- 4

# Yangon Technological University Accreditation On-site Visit (26.10.2015-27.10.2015)



# 1<sup>st</sup> Accreditation (Provisionally) Award Ceremony, YTU (29.1.2016)



# Yangon Technological University Accreditation On-site Visit (10.2.2016 - 11.2.2016)



# Accreditation Review visit from Pakistan Engineering Council (14.9.2016)



# Accreditation Review Visit from The Institution of Engineers Singapore (25.10.2016)



# 2<sup>nd</sup> Accreditation (Provisionally) Award Ceremony, YTU, (7.5.2017)



### Mandalay Technological University 1<sup>st</sup> Accreditation Onsite Visit (30.10.2017 – 31.10.2017)



# Mandalay Technological University 2<sup>nd</sup> Accreditation On-site Visit (29.11.2017 - 30.11.2017)

### Technological University (Thanlyin) Accreditation On-site Visit (12.12.2017 – 13.12.2017)



### Technological University (Kyaukse) Accreditation On-site Visit (28.12.2017 – 29.12.2017)



## Yangon Technological University Accreditation On-site Visit (Petroleum) (28.12.2017 – 29.12.2017)

## 25.1.2018 ~ 26.1.2018 YTU Accreditation On-Site Visit



3<sup>rd</sup> Accreditation (Provisionally) Award Ceremony, MTU, TU (Thanlyin), TU(Kyaukse), YTU 29.7.2018



## 10.10.2018 ~ 11 .10.2018 TU(Hmawbi) Accreditation On-Site Visit



#### 16.10.2018 ~ 17.10.2018 WYTU Accreditation On-Site Visit



#### 31.10.2018 ~ 1.11.2018 TU(Thanlyin) Accreditation On-Site Visit



## 6.11.2018 ~ 7.11.2018 TU(Taungoo) Accreditation On-Site Visit



#### 12.11.2018 ~ 13.11.2018 MTU Accreditation On-Site Visit (BEM Reviewer)



#### 14.11.2018 ~ 15.11.2018 YTU Accreditation On-Site Visit (BEM Reviewer)



#### 26.11.2018 ~ 27.11.2018 YTU Accreditation On-Site Visit (UNSW Observer)



## Accreditation Decision Meeting Observed by IEET (Washington Accord Nominator) 16.2.2019



#### MTU Accreditation On-Site Visit by IES (FEIAP Reviewer) 25.2.2019~26.2.2019



## MTU Accreditation On-Site Visit by Pakistan Engineering Council (FEIAP Reviewer) 1.4.2019~2.4.2019



#### 23.10.2019 ~ 24.10.2019 TU(Monywa) Accreditation On-Site Visit



## 6.11.2019 ~ 7.11.2019 TU(Taungoo) Accreditation On-Site Visit



## 27.11.2019 ~ 28.11.2019 TU(Taunggyi) Accreditation On-Site Visit



## 4.12.2019 MTU Interim On-Site Visit



## 4.12.2019 ~ 5.12.2019 TU(Mandalay) Accreditation On-Site Visit



## 11.12.2019 ~ 12.12.2019 TU(Thanlyin) Accreditation On-Site Visit



## 19.12.2019 ~ 20.12.2019 TU(Maubin) Accreditation On-Site Visit



## 23.12.2019 YTU Interim On-Site Visit



## WFEO-WORLD FEDERATION OF ENGINEERING ORGANIZATIONS PROPOSE OFFICE OF THE STANDING COMMITTEE ON ENGINEERING EDUCATION

No. (5/A) Kha Ya Pin Street, Lannamataw Township, Yangon,

The Republic of the Union of Myanmar





# WFEO-WORLD FEDERATION OF ENGINEERING ORGANIZATIONS PROPOSE OFFICE OF THE STANDING COMMITTEE ON ENGINEERING EDUCATION

No. (5/A) Kha Ya Pin Street, Lannamataw Township, Yangon,

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