

CAFEQ – 36

YEAQEO  
Country Report

Young Engineer Committee

MYANMAR ENGINEERING SOCIETY

# Engineering Ecosystem in Myanmar

## Key Engineering Organizations

- **Myanmar Engineering Society** - *To enable engineers and architects all over the country to actively participate in harmony in the development and dissemination of engineering and architectural knowledge and in nation-building tasks*
- **Myanmar Engineering Council** - *To hold paramount the safety, health and welfare of the public*
- **Ministry of Construction** - *responsible for the country's construction and maintenance of infrastructure, including roads, bridges, buildings, urban & housing development and Rural Road development*
- **Ministry of Electricity and Energy** - *composed by two ministries, Electrical Power (MOEP) and Energy (MOE) to generate, plan and supply Oil & Gas, Petrochemical, Electric Power and Hydropower*
- **Ministry of Transport** - *responsible for the country's transport infrastructure*

- **Top Engineering companies**
- **MES's Corporate Member Companies**
- Construction related civil company – 214
- Mechanical related company – 42
- Electrical related company – 15
- Manufacturing company – 18
- Electronic/ Telecommunication – 12
- Others - 74

## Major engineering Conferences

- 1) International Conference on Science Technology and Management (ICSTM)
- 2) International Conference on Recent Advances in Engineering and Technology (ICRAET)
- 3) International Conference on Mechanical and Aerospace Engineering (ICMAE)
- 4) International Conference on Control, Automation, Robotics and Vision Engineering (ICCARVE)
- 5) International Conference on Civil and Architectural Engineering (ICCAE)
- 6) International Conference on Science, Technology, Engineering and Management (ICSTEM)
- 7) International Conference on Electrical and Electronics Engineering (ICEEE)
- 8) International Conference on Civil and Environmental Engineering (ICCEE)
- 9) International Conference on Chemical and Biochemical Engineering (ICCBE)
- 10) International Conference on Mining, Material and Metallurgical Engineering (ICMMME)
- 11) International Academic Conference on Engineering, Technology and Innovations (IACETI)
- 12) International Academic Conference on Development in Science and Technology (IACDST)
- 13) International Conference on Recent Innovation in Engineering and Technology (ICRIET)
- 14) International Conference on Science, Engineering and Technology (ICSET)

**Ease of Doing Business** – ranked 171 among 190 economies (latest World Bank's Annual Report)

**Global Competitiveness** – scored 3.32 points out of 100 and ranked 131 out of 140 countries (Global Competitiveness Report)

**Supporting Infrastructure** - **National Electrification Plan** with the help of the World Bank and UN (full electrification by 2030)

- **National Transport Development Plan** in partnership with JICA

# Engineering Challenges and Achievements

## 3 Major Developmental Challenges

- 1) Administrative barriers** (Transparency, Standardize processes, Security and Trade facilities)
- 2) Infrastructure barriers** (Electricity supply, Telecommunications and credit & banking facilities)
- 3) Policy barriers** (Foreign currency fluctuation, Inflation)

## **3 major national priorities that have been solved with engineering or technology**

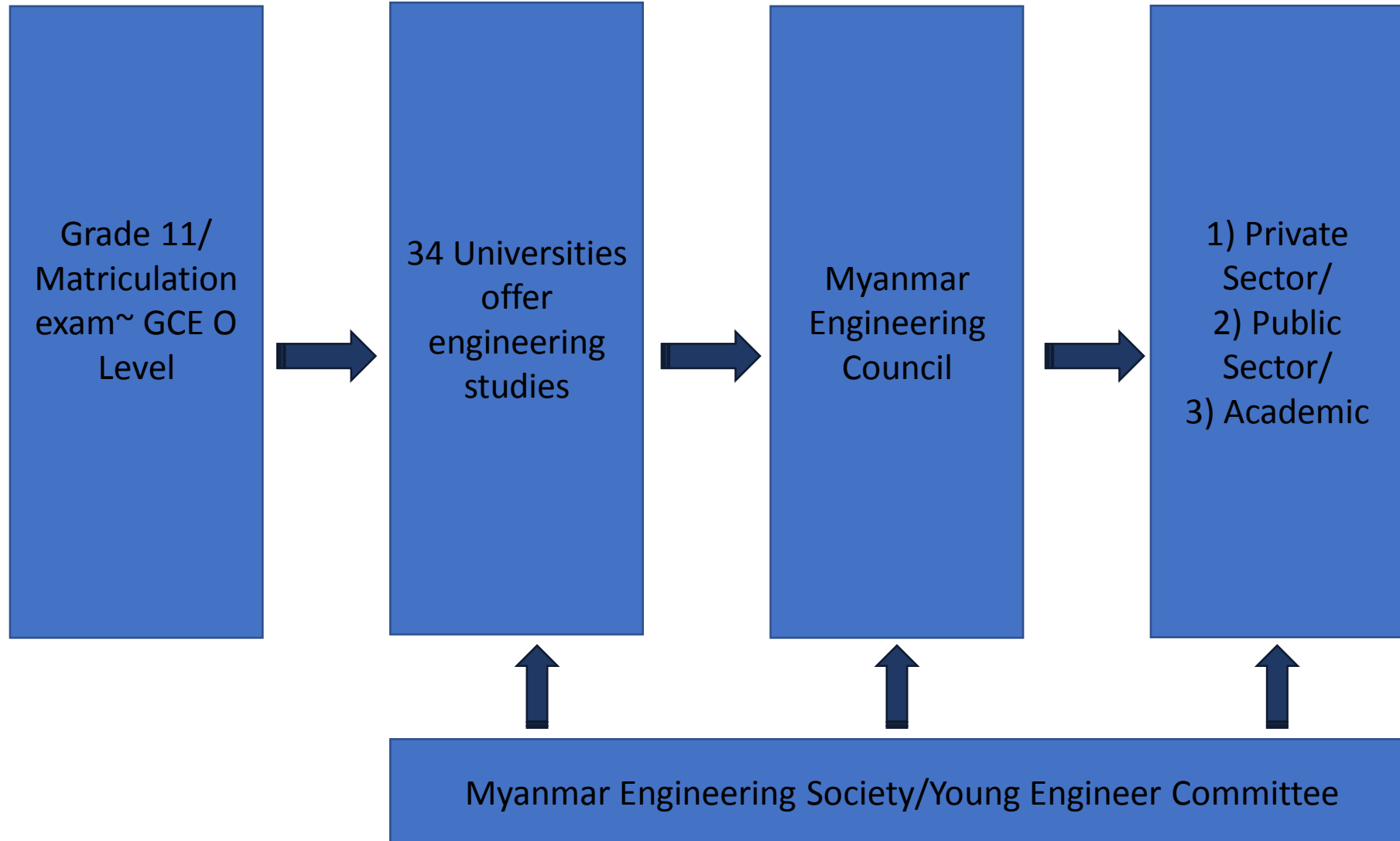
- 1) Myanmar National Building Code** in order to ensure safety and quality compliance across all developments existing and going forward
- 2) National Electrification Plan**
- 3) National Transport Development Plan**

### **3 major infrastructure engineering projects**

- 1) National Electrification Project
- 2) Elevated highway under PPP scheme
- 3) River basin maintenance (Yangon, Pan Hlaing, Bago)
- 4) Ground breaking for Yangon-Dala bridge



# Stakeholders




# Universities

- University accept application depend on their merit
- 34 universities offer engineering studies
- 6 years program including compulsory internship
- 10,000 graduates yearly
- All universities are under ministry of education except Maritime University
- *No private university is allowed to confer the degree*

# Engineering Field of Study

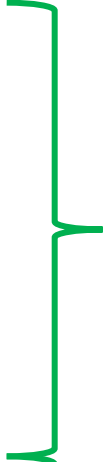
- 1) Architecture
- 2) Civil Engineering**
- 3) Chemical Engineering
- 4) Electrical Power Engineering**
- 5) Electronic Engineering**
- 6) Computer Engineering and Information Technology
- 7) Mechanical Engineering**
- 8) Mechatronic Engineering
- 9) Metallurgical Engineering and Material Science
- 10) Mining
- 11) Petroleum Engineering
- 12) Textile Engineering
- 13) Biotechnology Engineering



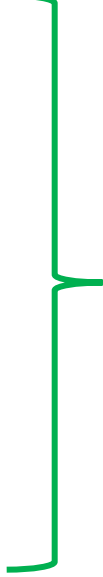
Offered by 32  
Technological  
Universities

# Engineering Field of Study

- 14) Propulsion and Flight Vehicles
- 15) Avionics
- 16) Electrical Systems and Instrumentation
- 17) Fuel and Propellant Engineering
- 18) Space Systems Engineering
- 19) Airport Management Naval Architecture
- 20) Marine Engineering
- 21) Port and Harbour Engineering
- 22) River and Coastal Engineering
- 23) Marine Electrical Systems and Electronics
- 24) Nautical Science
- 25) Shipping Management
- 26) Port Management

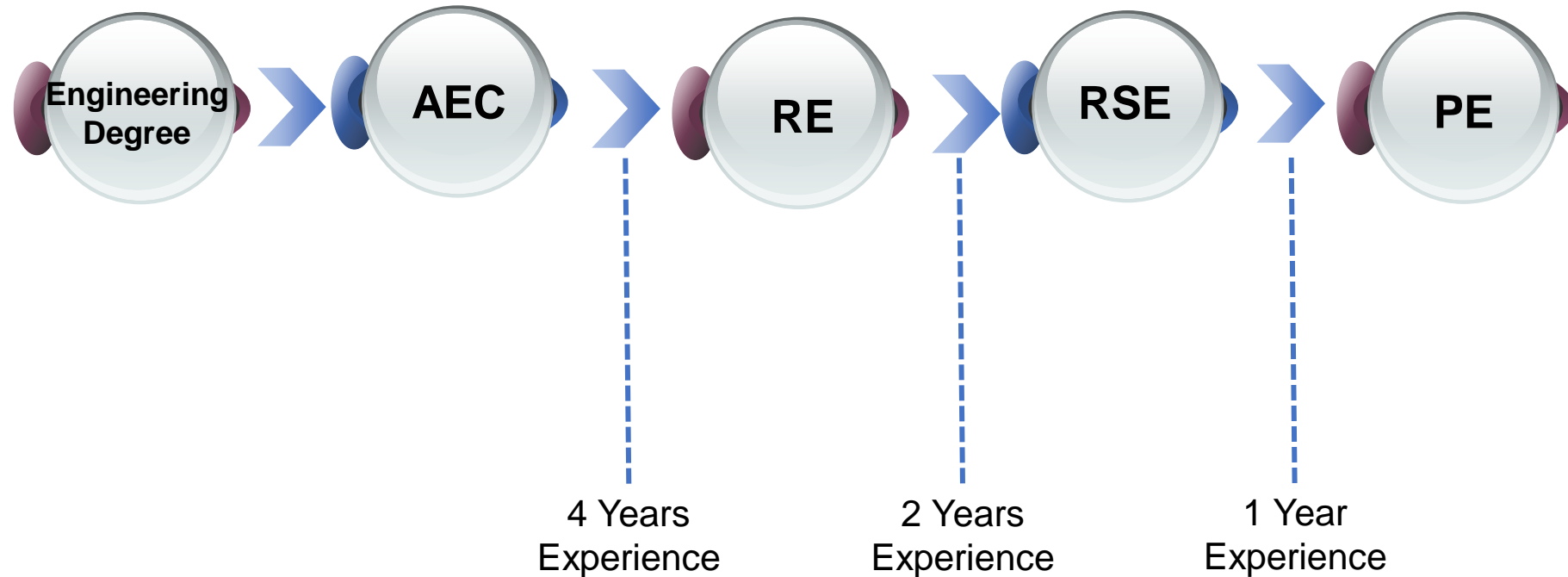


Offered by  
Aerospace  
Engineering  
University

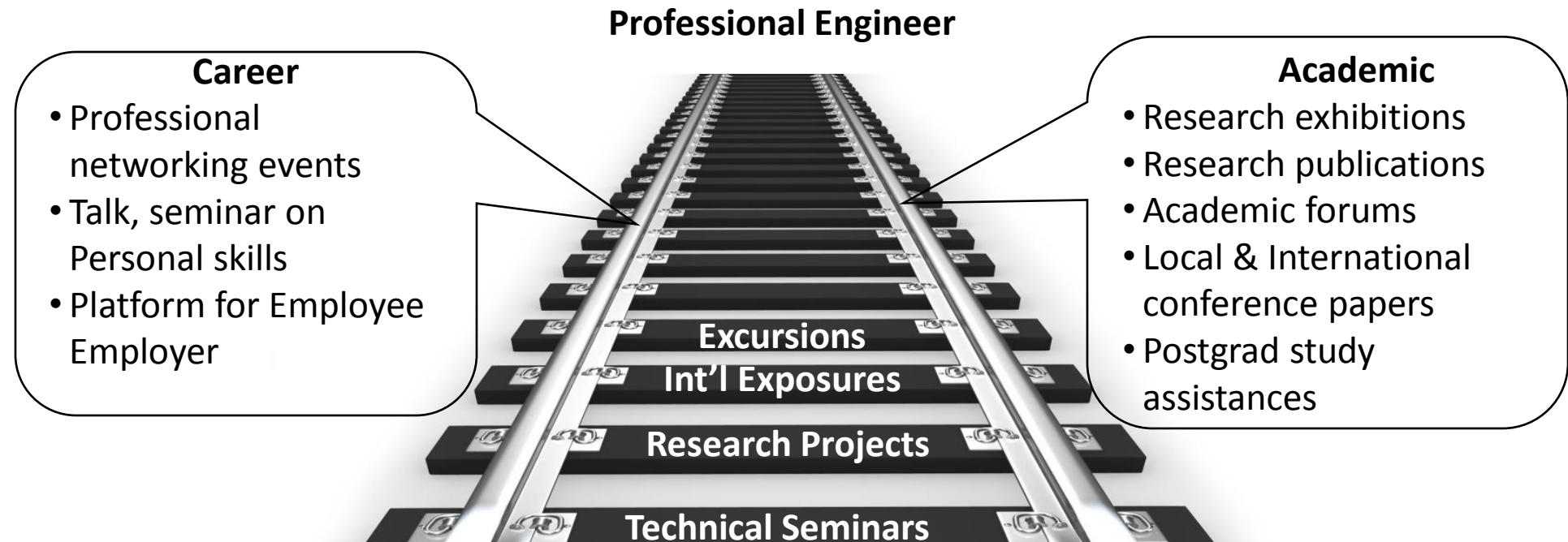


Offered by  
Maritime  
University

# Engineering Council: Pathway to PE from Fresh



# Role of MES/YE





Thank You