

COURSE ON THE ROLE OF A MECHANICAL ENGINEER IN AN ENGINEERING CONSULTANCY PRACTICE

DATE
3, 10 & 17 MAY 2025

TIME
10.00 A.M. - 12.30 P.M.

VENUE
ZOOM PLATFORM

SYNOPSIS

The purpose of this course is to introduce mechanical engineering graduates and students who are interested in pursuing their career in the construction industry as consulting engineers.

The course is divided into three main parts: (1) Introduction, (2) Design, and (3) Project Management. It provides an overview of the profession and practice, outlining the knowledge and skills that graduates are expected to develop as they progress in their careers. The important reference materials are also displayed to facilitate the participants in searching for them either online or at the Institutions where the materials are published and distributed.

SPEAKER'S BIODATA



Ir. Fadil Ibrahim graduated from Institut Teknologi MARA (now known as UiTM) in 1994. He is a Professional Engineer with Practicing Certificate with the Board of Engineers Malaysia and a Member of the Institution of Engineers Malaysia (IEM). He has been in the Engineering Consultancy Practice for more than 3 decades and has worked in well-established Engineering Consulting firms such as Perunding Hashim & NEH Sdn Bhd, Engineering and Environmental Consultants Sdn Bhd and HSS Integrated Sdn Bhd. He is now a Senior Associate with KTA Tenaga Sdn Bhd.

REGISTRATION FEE

ACEM member firms	RM 100.00 per person
Others	RM 180.00 per person

(E-certificate of attendance will be issued, subject to full attendance.)

Please click link <https://kliksini.my/eiDv8> or scan QR code for online registration.

For further enquiries, please contact the ACEM secretariat at tel. 012-5290031 or e-mail to vivien@acem.com.my.



**SCAN TO
REGISTER**

PROGRAMME

3 MAY 2025

Part One : The Introduction

- **The Built Environment:**
An overview of the physical surroundings in which society operates, including infrastructure and buildings.
 - **The Construction Industry:**
Insights into industry dynamics, key players, and prevailing trends.
 - **Engineering Consultancy Practice:**
An exploration of the role and responsibilities of consulting engineers within the industry.
 - **Building Services:**
An introduction to the systems that make buildings functional, comfortable, and safe.
 - **Basic Skills and Knowledge:**
Foundational competencies required for effective practice.
 - **Common Processes and Tasks:**
Standard procedures and duties expected of graduate engineers in professional settings.
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10 MAY 2025

Part Two : The Designs

- **Building Services Designs:**
Detailed overview of design aspects related to mechanical engineering that graduates will engage with in practice.
 - **Reference Materials:**
Presentation of essential resources and guidelines that graduates should utilize and guide their design work.
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Part Three : The Project Management

- **Tender or Bid Document Preparation:**
Processes for creating comprehensive documents to solicit bids from contractors.
- **Tender Process and Assessment:**
Evaluation methods to assess bids and select suitable contractors.
- **Construction Phase Responsibilities:**
Tasks that graduates are expected to undertake throughout the project lifecycle, such as:
 - Interim Claim Assessments:
Reviewing and validating progress payment requests from contractors.
 - Managing Variations:
Handling changes to project scope or specifications.
 - Addressing Defects:
Identifying and rectifying issues discovered during or after construction.
 - Final Account Preparation:
Compiling and agreeing on the final financial statement upon project completion.