



The Institution of Engineers, Malaysia

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## WEBINAR TALK ON NUCLEAR 101



**Date : 8 August 2024 (Thursday)**

**Time : 10.00 am - 12.00pm**

**BEM APPROVED CPD: 2**

**REF NO: IEM24/HQ/271/T (w)**

**SPEAKER: Dr. Mohd Syukri bin Yahya**

### SYNOPSIS

This webinar explores the fundamentals of fission power reactors, discusses the current status of nuclear power development in Malaysia, and highlights the crucial roles engineers play in ensuring its safe and successful deployment. Firstly, we delve into the fundamentals of fission power reactors, exploring the principles and technologies that drive nuclear power generation. This lecture will cover the core concepts of nuclear fission, different reactor designs, and the critical safety systems in place to ensure safe operation. Secondly, we examine the current status of nuclear power development in Malaysia, highlighting the nation's progress, challenges, and future plans in adopting nuclear energy as a sustainable power source. We shall also highlight why Malaysia may consider pursuing nuclear power again. Thirdly, we emphasize the pivotal roles that engineers can play in the safe and successful deployment of nuclear power. Through fostering expertise, adhering to stringent safety standards, and advocating for robust regulatory measures, engineers are integral to ensuring the secure and efficient integration of nuclear energy into Malaysia's energy landscape. In summary, this session offers valuable insights into Malaysia's nuclear energy future.

### SPEAKER'S PROFILE

Dr Mohd Syukri Yahya is the Director of UNITEN's Institute of Nuclear Energy. Syukri completed his PhD in Nuclear Engineering from Korea Advanced Institute of Science and Technology (KAIST) in 2016. He also holds a Bachelor of Mechanical Engineering (summa cum laude) and Master of Science in Mechanical Engineering degrees from the University of Minnesota, graduating in 2004 and 2005, respectively. His research interests are innovative nuclear reactor core design and analysis, and advanced nuclear application.

**REGISTRATION FEE :**

**IEM STUDENT : FOC**  
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