



# International Relations and Research Collaborations in association with School of Applied Sciences

Organized Guest talk on 
"Microbes for the food-water-energy nexus"

# **Program Report**

International Relations and Research Collaborations in association with School of Applied Sciences REVA University, organized a Guest Lecture on "Microbes for the food-water-energy nexus" on 04-02-2025. The event featured Dr. Mohamed Firdaus Abdul Wahab, PhD, Department of Biosciences, Universiti Technologi, and Malaysia. This expert talk was is benefitted to undergraduate, postgraduate and scholars.

# 1. About the speaker and their institute

Dr. Mohamed Firdaus Abdul Wahab, PhD: obtained his PhD in Chemical Biology from Imperial College London. He is currently the Faculty's Assistant Dean (External and Global Engagement). He chairs several committees at the Faculty, such as the Internationalization, Community Relations, Corporate Affairs, Alumni, and Industry Relations Committees. He is a registered chemist (ChM) of the Malaysian Institute of Chemistry (IKM), a member (MRSC) of the Royal Society of Chemistry (RSC, UK) and a chartered chemist (CChem) of RSC. His current research interests include environmental biochemistry and microbiomes, particularly related to the biological degradation of pollutants and biological energy generation.

## 2. Flow of program

- a. Welcome to the guest
- b. Introduction of Guest speaker
- c. Speaker's Talk
- d. Vote of thanks

#### 3. About the talk and other discussions:

A key component of the program involves studying life through both top-down and bottom-up approaches. The top-down approach focuses on examining ancient

microorganisms, particularly prokaryotes such as methanogens, to gain insights into the biochemical processes that may have been involved in early life forms. In contrast, the bottom-up approach investigates the formation of small molecules essential for life, such as amino acids and nucleobases. He discussed on environmental microbiology and biochemistry, particularly related to waste conversion into value added products (e.g. bioenergy) and he also revealed in the microbial ecology and microbiomes underlying these environmental and industrial processes.

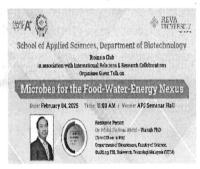
The program also highlights the study of extreme terrestrial ecosystems and the survival strategies of extremophiles, organisms that thrive in the most inhospitable environments on Earth. By understanding the limits of life in these extreme conditions, this methano microgranims provides valuable insights into the potential for life to exist elsewhere in the universe.

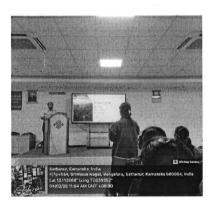
4. Total no. of attendees: 60

### 5. Outcome of program:

The program equips students with a deep understanding of life's origins, survival in extreme environments, and the potential for extraterrestrial life, fostering critical thinking and interdisciplinary scientific inquiry.

# 6. Photos from the program:

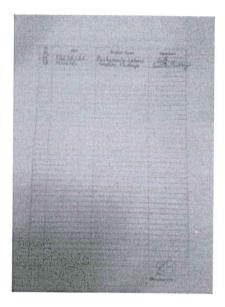








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IRRC School Coordinator Director School of Applied Sciences

Director IRRC





# School of Applied Sciences Department of Biotechnology

Activity: International Guest Speaker

Title: "missibes for the food water - energy never"

Date: 4/2/2025

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