

5TH INTERNATIONAL CONFERENCE ON ENGINEERING PROFESSIONAL ETHICS AND EDUCATION

(ICEPEE'22)

9th-10th August 2022

Organized by Integrates RG



ICEPEE'22

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Abstract of Keynote Speeches

KEYNOTE SPEECH 1

**PROF. EMERITUS TAN SR. DATO'
DZULKIFLI ABDUL RAZAK**



REENGINEERING THE PANDEMIC WISELY

The prevailing coronavirus pandemic has laid bare much of the existing ecosystems that we tend to take for granted. Foremost, is the education ecosystem affecting most disciplines, including engineering. More gaps are being exposed as we contemplate the futures of the world as engineers. The presentation will elucidate some of the gaps and suggest how best to professionally and wisely navigate through the (post)-pandemic era.

KEYNOTE SPEECH 2

**PROF. DR. LUQMAN
CHUAH ABDULLAH**



EMBEDDING ENTREPRENEURSHIP IN ENGINEERING EDUCATION: WAY FORWARD FOR POST PANDEMIC

Entrepreneurship is increasingly important for business globally. The prospects of entrepreneurial activities are still underutilized due to uncovered ground of its scope. The stakeholders involved in designing the curriculum for entrepreneurial course of engineering programmes need to take into account the attributes of different types of entrepreneurs. Subsequently this will result in a clear direction for entrepreneurship in engineering education.

KEYNOTE SPEECH 3

**PROF. DR. DR. KHAIRIAH
BTE MOHD YUSOF**



CHALLENGES IN DESIGNING CURRICULUM WITH HUMAN VALUES

Engineering curricula have traditionally been heavily focused on science, mathematics, and technology-based courses, without any connection to human values. While there are efforts to include social science and humanities electives to educate more well-rounded engineering graduates, the chasm between the electives and the technical courses often lead to students viewing them as a chore and waste of time. Nevertheless, the mission of engineers to “make the world a better place”, is very much grounded in service to humanity. With the fast-evolving technology and the challenges in sustainable development, remaining true to the mission requires engineering courses throughout the curricula to be infused with human values, rather than separated as electives without any connection to the core courses. So how can we infuse these values in the curricula? This presentation will discuss several possible approaches, and the challenges in implementing a whole curricula approach that infuse human values.

TECHNICAL SESSION ICEPEE 2022

Day 1: 9th August 2022 [morning]	
8:00am - 9:00am	Online attendance to the Congress IEC 2022 - Zoom Room (ICEPEE'22)
9:00am - 10:00am	Opening Ceremony of the IIUM Engineering Congress 2022 Welcoming Remarks by The Dean, The Rector and The President - Zoom Room (ICEPEE'22)
10.00am - 10.15am	Online Attendance to ICEPEE 2022
10:15am - 11:15am	ICEPEE '22 Keynote Speaker Session - Zoom Room (ICEPEE'22) Prof. Emeritus Tan Sr. Dato' Dzulkifli Abdul Razak Reengineering The Pandemic Wisely Chairman: Assoc. Prof. Dr. Suriza Ahmad Zabidi
11:15am - 11:45am	ICEPEE '22 Keynote Speaker Session - Zoom Room (ICEPEE'22) Prof. Dr. Luqman Chuah Abdullah Embedding Entrepreneurship In Engineering Education: Way Forward for Post Pandemic Chairman: Assoc. Prof. Dr. Nor Fadhillah Mohamed Azmin
11:50am - 12:30pm	<p>Session 1 - Zoom Room (ICEPEE'22) Sustainability in Engineering Education and Research Session 1 Chair: Dr. Ani Liza Asnawi Co-chair: Dr. Ahmad Zamani Jusoh</p> <p><i>Sustainability in Engineering Education and Research</i> 11:50 AM [ID#8] Mapping Integration of Sustainable Development Goals for Engineering Programme at International Islamic University Malaysia (IIUM) Presenter: Amin Akramin Shafie</p> <p>12:10 PM [ID#11] Ethics and Values Towards Environmental Sustainability During Covid'19 Presenter: Nassereldeen Ahmed Kabbashi</p>
12:30pm - 2:00pm	LUNCH BREAK

TECHNICAL SESSION ICEPEE 2022

Day 1: 9th August 2022 [afternoon]

2:00pm - 3:40pm

Session 2 - [Zoom Room \(ICEPEE'22\)](#)

Chair: Assoc. Prof. Dr. Nurul Fariza Binti Zulkurnain

Co-chair: Dr. Nur Shahida Binti Midi

Enhancing Innovation in Research and Education

2:00 PM

[ID#6] Developing an Internet of Things Module for Final Year Engineering Student

Presenter: Bernardi Pranggono

2:20 PM

[ID#13] Instrument Development and Validation using Rasch Model to Measure Students' Communication Skills Career Readiness

Presenter: Intisar Ibrahim Ridwan Seed

Professionalism and Ethics in Engineering and Engineering Education

2:40 PM

[ID#12] Digital Hacking and Cyber-Attacks: Cyber Security from Islamic Perspective

Presenter: Zainab Attar Bashi

3:00 PM

[ID#17] Epistemological Integration Between Modern Engineering Education and Islamic Science

Presenter: Zaharadeen Ahmed

Entrepreneurship in Engineering Education

3:20 PM

[ID#5] A Study on Online Reservation Behaviour of Hotel Catering Industry

Presenter: Kun-Shan Zhang

TECHNICAL SESSION ICEPEE 2022

Day 2: 10th August 2022 [morning]

<p>9:00am - 10:00am</p>	<p>ICEPEE '22 Keynote Speaker Session - Zoom Room (ICEPEE '22) Prof. Dr. Khairiah Bte Mohd Yusof Challenges In Designing Curriculum with Human Values Chairman: Prof. Dr. Ir. Zuraida Bt Ahmad</p>
<p>10:00am - 12:15 pm</p>	<p>Session 3 - Zoom Room (ICEPEE'22) Chair: Assoc. Prof. Dr. Muhammad Mahbubur Rashid Co-chair: Dr. Nurul Arfah Binti Che Mustapha</p> <p><i>Engineering and Environment</i> 10:00 AM [ID#9] Stress Problems during Emergency Remote Teaching Learning (ERTL): Students' Perspective. Presenter: Nur Aishah Zainal</p> <p><i>Technology Transfer</i> 10:20 AM [ID#18] Enhancing Innovation in Research Based on Chicken-Feed Formulation for Sustainable Production, Estimation and Commercialization Presenter: Zaharadeen Ahmed</p> <p><i>Humanising Engineering Education & Related Topics</i> 10:40 AM [ID#15] Islamic Counselling from the Perspective of Professor Malik Badri Presenter: Afaf Husein Osman</p> <p>11:00 AM [ID#14] Realizing Humanizing Engineering Education in IIUM: A preliminary outcomes Presenter: Zuraida Ahmad</p> <p>11:20 AM [ID#10] A Real-time Brain Computer Interface (BCI) Framework for Sleep Stimulation Using a Deep Learning Technique: A Proposal Presenter: Zainab Attar Bashi</p> <p>11:40 AM [ID#16] Implementing Critical Thinking Methods in Engineering Curriculum Presenter: Arselan Ashraf</p>
<p>12:00pm</p>	<p>ICEPEE '22 Closing Remark - Zoom Room (ICEPEE'22)</p>

THANK YOU,
SEE YOU IN OUR NEXT CONFERENCE!