

# InTRed'21

Innovative Teaching & Learning Research Day 2021



*Virtual Conference*

“BEYOND BOUNDARIES:  
HUMANIZING FUTURE-  
PROOF EDUCATION”

09  
DEC  
2021  
THURSDAY

UNIVERSITI  
TEKNIKAL  
MALAYSIA  
MELAKA  
<https://intred.utem.edu.my>

SPONSORED BY:



# Table of Content

<i>Welcome to InTReD'21</i>	1
<i>Opening Speech by Acting Vice Chancellor</i>	2
<i>Welcoming Remark by InTReD'21 Program Chair</i>	3
<i>Program Schedule</i>	4-5
<i>Parallel Sessions</i>	6-13
<i>Forum Panelists and Moderator</i>	14-17
<i>i-Talk Speakers</i>	18-22
<i>Virtual Workshops for Educators</i>	23
<i>Committee Members</i>	24
<i>Poster Juries</i>	25
<i>Reviewers</i>	26
<i>Sponsors</i>	27

# Welcome To InTReD'21

The main objective of InTReD'21 is for educators, scholars, researchers, engineers, technologists and students from Higher Educational Institutions, Teaching Institutions, Research Institutions and Industries to present findings of completed and ongoing original research activities on teaching and learning, hence foster research collaborations between the universities and the industries. Another objective is to give opportunities for researchers to share the best practices in teaching and learning through poster presentation and product showcase.

**TRACK  
01****CREATIVE AND INNOVATIVE IN TEACHING & LEARNING****TRACK  
02****LEARNING TECHNOLOGY****TRACK  
03****LEARNING SKILLS****TRACK  
04****TVET TEACHING AND LEARNING****TRACK  
05****STEM EDUCATION****TRACK  
06****E-TEACHING PORTFOLIO**

# Opening Speech by Acting Vice Chancellor

Assalamualaikum Warahmatullahi Wabarakatuh

Praise be to Allah, the Almighty, the Benevolent for His blessings have enabled us to gather here to share, learn and inspire each other for the betterment of future education. I would like to congratulate the committees lead by Centre for Academic Excellence and Scholarship (CAES), UTeM for has successfully organized this annual event. InTReD'21 is a platform for academics and educators from various background come together to share, discuss and empower each other in shaping the future-proof education through innovative and unconventional teaching & learning approaches.

One of the highlights for this year's InTReD edition is the online workshop with the theme on Adapting New Norms in Innovative Classroom targeting school teachers in Melaka. This workshop is part of UTeM's continuous commitment and contribution to the society in line with our tagline "Always A Pioneer, Always Ahead". This is crucial in ensuring that our expertise in technical teaching and learning are shared and expanded to the community at large.

The COVID-19 pandemic has magnified the importance of utilising technology in our education delivery to ensure that no one is left behind in learning. The theme of InTReD'21 "**Beyond Boundaries: Humanizing Future-Proof Education**" is succinctly aligned to the Ministry of Higher Education's endeavour towards a transformed higher education; as envisioned in the Malaysian Higher Education 4.0 Framework. The pushes of global dynamism entails numerous shifts in the facade of future jobs and employments. Foresighting the pulls of the highly digitised era, warrant an equally tenacious action on the part of higher education providers – of which, is to prepare graduates for jobs that may not exist yet and this calls for optimization of the quadruple helix- of ensuring strategic synergies with industries, government, and community. Understandably, education is preeminently a matter of quality. Higher education, therefore, is and will continue to be the gateway to attaining Malaysia's aspiration of a developed nation. Consonantly, higher education needs to be enhanced for it to efficaciously address the issues and challenges within the realm of current global higher education scenarios. Future-ready curriculum activities, agile governance programmes, research and innovation deliverables, as well as talent planning activities are undeniably of great significance in developing a future proof education.

On behalf of UTeM and the organizing committee, I would like to thank all the participants and the sponsors who have made InTReD'21 a success and I do hope that the output of InTReD'21 will henceforth accord positive and productive impacts to all parties besides gearing us towards a sustainable and thriving innovation in our teaching and learning journey.

Thank you.

**PROFESSOR IR. DR. GHAZALI BIN OMAR**  
Acting Vice Chancellor  
Universiti Teknikal Malaysia Melaka (UTeM)



# Welcoming Remark by InTReD'21 Program Chair

Assalamualaikum Warahmatullahi Wabarakatuh

Theme for InTReD'21 is "Beyond Boundaries: Humanizing Future-Proof Education" – indeed, it is difficult for us to imagine beyond boundaries of our future education. However, there is always a strong commitment and hope for realizing a better future in education. This aligns with the aspiration for academics to be an outstanding educators and researchers in preparing our students for the challenges in today's uncertainty, complexity and ambiguity world.

InTReD'21 consists of ten esteemed speakers for the i-Talk, forty research articles, twelve e-teaching portfolio presentations and a forum by distinguished panelists who are experts in their respective areas. Thus, InTReD'21 enables educators and researchers throughout nation to utilize the platform to share, discuss, review our best practices and experiences in adapting to new technology and innovative ways in teaching & learning as well as providing supports for students in this challenging time. This enables us to pave the way and contribute to the body of knowledge of innovation in global higher education towards future-proof education at large.

This event has been realized with commitment and selfless efforts of the organizing committees. Thus, I would like to extend my sincere gratitude to the organizing committees of InTReD'21 who have remained hardworking and committed in ensuring the success of InTReD'21. Special thanks go to our sponsors UTeMASA, Puspanita, Edutech Supply & Services Sdn. Bhd. for their supports that have made InTReD'21 a success.

Lastly, I wish all a fruitful sharing and discussion with an outcome achieved- endless effort; beyond boundaries for a better every day.

Thank you.

ASSOCIATE PROFESSOR DR. JARIAH BINTI MOHAMAD JUOI  
Program Chair  
Innovative Teaching & Learning Research Day 2021 (InTReD'21)  
Director  
Centre for Academic Excellence and Scholarship (CAES)



# Program Schedule

Time	Program	Link
7.00 am - 8.30 am	<b>Participant Registration</b>	 <a href="https://bit.ly/314cxMC">https://bit.ly/314cxMC</a>
8:30 am – 10:30 am	<b>Opening InTReD'21</b> <ul style="list-style-type: none"> <li>• Doa recital</li> <li>• Welcoming remarks by Assoc. Prof. Dr. Jariah binti Mohamad Juoi (Director CAES)</li> <li>• Opening speech by Professor Ir. Dr. Ghazali bin Omar (Acting Vice Chancellor, UTeM) *recorded</li> <li>• InTReD'21 Video Montage</li> </ul> <b>i-Talk Session</b> <p><b>Session 1: Adopting Technology in Mathematics Delivery for Engineering Students</b> Speaker: Dr. Rahifa binti Ranom (FKE, UTeM)</p> <p><b>Session 2: Virtual Lab Simulation for Mechanical Engineering Students</b> Speaker: Dr. Zakiah binti Abd Halim (FKM, UTeM)</p> <p><b>Session 3: e-Sulam Best Practices for Academic &amp; Character Development: FTKEE Story</b> Speaker: Ts. Dr. Aliza binti Che Amran (FTKEE, UTeM)</p> <p><b>Session 4: Engaging Language Classes on Zooms/Teams</b> Speaker: Pn. Nurlisa Loke binti Abdullah (CELL, UTeM)</p> <p><b>Session 5: Integrating New Media in Language Teaching</b> Speaker: Pn. Noor Baiduri binti Abd Halim (CELL, UTeM)</p> <p><b>Session 6: Staying Resilient During Pandemic</b> Speaker: Assoc. Prof. Dr. Mohd Hafiz bin Zakaria (FTMK, UTeM)</p> <p><b>Session 7: Resilience and Coping Strategies During Pandemic COVID-19</b> Speaker: Dr. Norida binti Abdullah (IPTK, UTeM)</p> <p><b>Session 8: Integrity in the New Norms Classroom</b> Speaker: Assoc. Prof. Dr. Zuhriah binti Ebrahim (FKP, UTeM)</p> <p><b>Session 9: Hands-on Best Practices in Teaching Entrepreneurship</b> Speaker: Pn. Johanna binti Abdullah Jaafar (FPTT, UTeM)</p> <p><b>Session 10: Hands-on Best Practices in Engineering Technology Classroom</b> Speaker: Ts. Dr. Norfariza binti Ab Wahab (FTKMP, UTeM)</p>	 <a href="https://bit.ly/3bvCshA">https://bit.ly/3bvCshA</a>  Meeting No.: 2559 288 3935 Password: INTRED21@A
10.30 am– 10.45 am	Briefing to Poster Juries Briefing to Juries e-Teaching Portfolio	

# Program Schedule

Time	Program	Link
11.00 am – 1.00 pm	<p><b>Parallel Session: Room 1</b> Poster Presentation and Judging (Track 1: Creative and Innovative in Teaching &amp; Learning)</p> <p><b>Parallel Session: Room 2A</b> Poster Presentation and Judging (Track 2A: Learning Technology)</p> <p><b>Parallel Session: Room 2B</b> Poster Presentation and Judging (Track 2B: Learning Technology)</p> <p><b>Parallel Session: Room 3</b> Poster Presentation and Judging (Track 3: Learning Skills)</p> <p><b>Parallel Session: Room 4A</b> Poster Presentation and Judging (Track 4A: TVET Teaching and Learning)</p> <p><b>Parallel Session: Room 4B</b> Poster Presentation and Judging (Track 4B: TVET Teaching and Learning)</p> <p><b>Parallel Session: Room 5</b> Poster Presentation and Judging (Track 5: STEM Education)</p> <p><b>Parallel Session: Room 6</b> Track 6: e-Teaching Portfolio Judging</p>	 <p><a href="https://bit.ly/314cxMC">https://bit.ly/314cxMC</a></p>
11.00 am – 1.00 pm	<p><b>Workshop 1: Become A Google Classroom Master!</b> <i>Speaker: Ts. Dr. Ahmad Shaarizan bin Shaarani (PSTP, UTeM)</i></p> <p><b>Workshop 2: Classcraft – Turn Your Classroom into An Epic Game</b> <i>Speaker: Dr. Ulka Chandini Pendit (FTMK, UTeM)</i></p>	
2.30 pm – 4.00 pm	<p><b>Forum: Humanizaing Future-Proof Education</b></p> <p>Moderator: <b>Assoc. Prof. Dr. Jariah binti Mohamad Juoi</b> (Director, CAES)</p> <p>Panelist 1: <b>Prof. Dr. Khairiyah binti Mohd Yusof</b> (Fellow, Centre for Engineering Education, UTM)</p> <p>Panelist 2: <b>Assoc. Prof. Dr. Zainal Abidin bin Sanusi</b> (Director, Sejahtera Center for Sustainability and Humanity, IIUM)</p> <p>Panelist 3: <b>Assoc. Prof. Dr. Mohammad Tazli bin Azizan</b> (Faculty of Chemical Engineering Technology, UNIMAP)</p>	 <p><a href="https://bit.ly/3bvCshA">https://bit.ly/3bvCshA</a></p> <p>Meeting No.: 2559 288 3935 Password: INTRED21@A</p>
4.00 pm – 5.00 pm	<p><b>Closing Ceremony</b></p> <ul style="list-style-type: none"> <li>Awards Announcement</li> <li>Closing speech by Prof. Dr. Zulkifilie bin Ibrahim (Deputy Vice Chancellor (Academic &amp; International), UTeM) *recorded</li> <li>Virtual Group Photo Session</li> </ul>	

# Parallel Sessions

## ROOM 1

### Track 1: Creative and Innovative in Teaching & Learning

**Chairperson: Ts. Dr. Wan Mohd Ya'akob bin Wan Bejuri (FTMK, UTeM)**

**Technical Assistant: Noraini binti Buang (CAES, UTeM)**

Time	ID	Presenter	Mode	Title
11:00	03	MAASPALIZA AZRI	RECORDED	<i>View of Student Performance using Online Final Examination in Semester Affected due to COVID-19 Pandemic: Bachelor of Electrical Engineering Case Study</i>
11:15	05	FAIRUL AZHAR ABDUL SHUKOR	LIVE	<i>Insight of Student's Learning Preferences on Project-Based Course: A Case Study on Faculty of Electrical Engineering (FKE), Universiti Teknikal Malaysia Melaka (UTeM)</i>
11:30	12	RAHIFA RANOM	RECORDED	<i>Engaging Online Learning Activities using Padlet in Teaching Mathematics for Engineering Students</i>
11:45	42	RAHIMAH ABDUL HAMID	LIVE	<i>Project-based Learning in Engineering Education: Evaluation of the PBL Implementation, Students' Perception and Grade Attainment</i>
12:00	37	NUR ZAREEN ZULKARNAIN	RECORDED	<i>The Impact of Multimodal Approach on the Efficacy of Artificial Intelligence Online Course From the Social Constructivism Perspective</i>
12:15	50	SUSHELLA EDAYU MAT KAMAL	LIVE	<i>Application of TeamViewer Software to Assist Teaching and Learning for Computer Aided Design Course During Covid-19 Pandemic</i>
12:30	38	NOOR FAZILLA ABD YUSOF	RECORDED	<i>The Impact of Ambivert Personality Traits and the Hybrid Teaching Style on Students' Satisfaction: A Quantitative and Qualitative Analysis</i>

# Parallel Sessions

## ROOM 2A

### Track 2A: Learning Technology

**Chairperson: Ts. Dr. Lizawati binti Salahuddin (FTMK, UTeM)**

**Technical Assistant: Alidah binti Mohd Ali (CAES, UTeM)**

Time	ID	Presenter	Mode	Title
11:00	07	ERMAN HAMID	RECORDED	<i>The Study on Distance Learning Approach in Data Communication and Networking Course at UTeM</i>
11:15	09	ERMAN HAMID	RECORDED	<i>The Effectiveness of Online Teaching and Learning for Sirah's Subject in SRA JAIM Limbongan Melaka During MCO</i>
11:30	21	NORFARIZA AB WAHAB	RECORDED	<i>Final Year Project (FYP) Assessment using Moodle (U-Learn) Platform as Management System: From Coordinator View</i>
11:45	24	LINDA KHOO MEI SUI	RECORDED	<i>Designing an ePortfolio Framework for Academic Writing for Technical University Students</i>
12:00	01	FAIRUL AZHAR ABDUL SHUKOR	LIVE	<i>Covid-19: Effect of Online Teaching to Student Attainment in Electromagnetic Course</i>

# Parallel Sessions

## ROOM 2B

### Track 2B: Learning Technology

**Chairperson: Dr. Shamsul Anuar bin Shamsudin (FKM, UTeM)**

**Technical Assistant: Mariana binti Jelani (CAES, UTeM)**

Time	ID	Presenter	Mode	Title
11:00	36	NORAINI HUSIN	LIVE	<i>The Issues and Challenges of COVID-19 Outbreak in Malaysian Higher Education Institutions: A Preliminary Study</i>
11:15	31	SOH YI JIN	RECORDED	<i>Learning Covid-19 Restaurant Standard Operating Procedures (SOPs) Through Virtual Reality (VR) Game</i>
11:30	39	MASHANUM OSMAN	LIVE	<i>Preliminary Study on Automatic Feedback in Formative Assessments</i>
11:45	32	LUA CHEONG FENG	RECORDED	<i>The Development of Virtual Electrolysis Experiment by Using Augmented Reality for Chemistry Secondary Education during Covid-19 Pandemic</i>
12:00	40	MULIATI SEDEK	LIVE	<i>Utilization of Ubiquitous Technology Among Engineering Undergraduates</i>

# Parallel Sessions

## ROOM 3

### Track 3: Learning Skills

**Chairperson: Dr. Ahamed Fayeez bin Tuani Ibrahim (FKEKK, UTeM)**

**Technical Assistant: Noornahar binti Akashah (CIO, UTeM)**

Time	ID	Presenter	Mode	Title
11:00	43	MAS HASLINDA MOHAMAD	LIVE	<i>A Pilot Study on SRL Awareness Among Electronic Engineering Students in the COVID-19 Pandemic Era</i>
11:15	53	MARIAM MD GHAZALY	LIVE	<i>Impact of Instructional Academic Advising (AA) on Student's Cumulative Grade Point Average (CGPA) in Undergraduate Education</i>
11:30	15	NORUN NAJJAH AHMAT	LIVE	<i>The Choices of Thinking Tools Among UTeM Students</i>
11:45	28	HAZRIQ IZZUAN JAAFAR	LIVE	<i>Virtual Student Mentorship: Future-Proof for New Learning Ecosystems</i>
12:00	29	WAN HASRULNIZZAM WAN MAHMOOD	LIVE	<i>Employers Perspective on Graduating Student Performance of Mechanical Engineering Technology Academic Programme</i>

# Parallel Sessions

## ROOM 4A

### Track 4A: TVET Teaching and Learning

**Chairperson: Mohd Shamsuri bin Md Saad (IPTK, UTeM)**

**Technical Assistant: Mohd Sufian bin Abu Talib (FKEKK, UTeM)**

Time	ID	Presenter	Mode	Title
11:00	10	KAMARUDIN ABU BAKAR	LIVE	<i>Appropriate behaviors and courses delivery on entrepreneurship intention of TVET students</i>
11:15	04	ZANARIAH JANO	RECORDED	<i>Smart Plant Management Monitoring System (SPMMS) learning model toward Greening Technical and Vocational Education and Training (TVET) sustainable development</i>
11:30	14	NUR ILYANA ANWAR APANDI	LIVE	<i>Individual Performance Study Based on Correlation Between Programme Outcomes Attainment and CGPA</i>
11:45	06	ROBIAH YUSOF	RECORDED	<i>Studies on the Effectiveness of Students' Technical Competency using Hands-on-Approach in Network Analysis and Design Course at UTeM</i>
12:00	18	PRATISH MOHAN	LIVE	<i>Impact of Working Environment Towards Job Satisfaction of Teaching Engineers in Universiti Teknikal Malaysia Melaka</i>
12:15	20	SHARIFAH SAKINAH SYED AHMAD	LIVE	<i>Exploring Impact of Online Learning to Students using Machine Learning</i>
12:30	22	ALBERT FEISAL @ MUHD FEISAL ISMAIL	LIVE	<i>Teaching Factory as New Model for Education 4.0</i>

# Parallel Sessions

## ROOM 4B

### Track 4B: TVET Teaching and Learning

**Chairperson: Ts. Siti Rosmaniza binti Ab Rashid (FKEKK, UTeM)**

**Technical Assistant: Imran bin Mohamed Ali (FKEKK, UTeM)**

Time	ID	Presenter	Mode	Title
11:00	23	NURDIANA NORDIN @ MUSA	LIVE	<i>The Reliability of Team-Teaching Dimension for Evaluating the Effectiveness of Team-Taught Engineering Courses in Universiti Teknikal Malaysia Melaka"</i>
11:15	25	LATIFAH MOHD ALI	LIVE	<i>Themes on Issues and Challenges of TVET in Primary Education of Malaysia: A Case Study in Melaka</i>
11:30	30	NOR LAILATUL AZI-LAH HAMDZAH	LIVE	<i>English for Professional Interaction and Graduate Employability: Exploring the Students' Perceptions of Creating Digital Video CV Task</i>
11:45	44	MOHD FADZLI ABDOLLAH	RECORDED	<i>Impact of COVID-19 on the mechanical engineering students' academic performance: A case study of UTeM</i>
12:00	34	FAUZIAH ABDULLAH	LIVE	<i>Impromptu Speech as an Instructional Strategy in Developing Undergraduate Engineers' English Oral Proficiency</i>
12:15	46	INDRA DEVI M.SUBRAMANIAM	LIVE	<i>English Skills and Competencies Requirements for Engineers of Industry 4.0</i>
12:30	27	MOHD AZMAN ABDULLAH	LIVE	<i>Utilizing Web Tools for Engineering Projects and Report Writing</i>

# Parallel Sessions

## ROOM 5

### Track 5: STEM Education

**Chairperson: Ir. Dr. Ridza Azri bin Ramlee (FKEKK, UTeM)**

**Technical Assistant: Hairulisam bin Md Dom (FKEKK, UTeM)**

Time	ID	Presenter	Mode	Title
11:00	08	NORHARYATI HARUM	RECORDED	<i>Designing Science Technology Engineering Mathematics (STEM) Competition During COVID-19 Pandemic</i>
11:15	51	MOHD AZMAN ABDULLAH	LIVE	<i>Addressing the Interdependence Attribute of Undergraduate Students Through Problem-based Project</i>
11:30	47	ALIZA CHE AMRAN	RECORDED	<i>Online STEM Mentoring Program for Service-Learning Experience Among First Year Engineering Technology Undergraduates</i>
11:45	33	SYUHaida MAHAMUD	LIVE	<i>Extending the Extended UTAUT2 in Understanding E-Learning Acceptance for Future STEM Education Research: A Conceptual Framework</i>

# Parallel Sessions

## ROOM 6

### Track 6: e-Teaching Portfolio Presentation

**Chairperson: Ts. Dr. Sazalinsyah bin Razali (FTMK, UTeM)**

**Technical Assistant: Khairul Zaman bin Mustapa (FKEKK UTeM)**

Time	ID	Presenter	e-Teaching Portfolio Link
11:00	11	AZIAH KHAMIS	<a href="https://sites.google.com/view/aziahkhamisteachingportfolio/teaching">https://sites.google.com/view/aziahkhamisteachingportfolio/teaching</a>
11:10	35	MULIATI SEDEK	<a href="https://sites.google.com/view/muliatisedek">https://sites.google.com/view/muliatisedek</a>
11:20	16	EZREEN FARINA SHAIR	<a href="https://ezreen.weebly.com">https://ezreen.weebly.com</a>
11:30	19	AIDAWATY RAFAN	<a href="https://akirahumaira.wixsite.com/aidarafan/teaching">https://akirahumaira.wixsite.com/aidarafan/teaching</a>
11:40	13	NUR ZAREEN ZULKARNAIN	<a href="https://zareenzulkarnain.wordpress.com">https://zareenzulkarnain.wordpress.com</a>
11:50	48	SER LEE LOH	<a href="https://blog.utem.edu.my/sllloh">https://blog.utem.edu.my/sllloh</a>
12:00	49	DATUK SUAIDI BIN DATO SAFEI	<a href="https://datuksuaidi.wixsite.com/profile">https://datuksuaidi.wixsite.com/profile</a>
12:10	26	MARIAM MD GHAZALY	<a href="http://mariamghazaly.com">http://mariamghazaly.com</a>
12:20	52	IMRAN BIN MOHD IBRAHIM	<a href="https://sites.google.com/view/drimranibrahim/home">https://sites.google.com/view/drimranibrahim/home</a>
12:30	54	MAWARNI MOHAMED YUNUS	<a href="https://blog.utem.edu.my/mawarni/">https://blog.utem.edu.my/mawarni/</a>
12:40	55	NOOR BAIDURI ABD HALIM	<a href="https://sites.google.com/view/madambaiduristeachingportfolio/home">https://sites.google.com/view/madambaiduristeachingportfolio/home</a>
12:50	56	MOHD FADZLI BIN ABDOLLAH	<a href="https://www.mohdfadzli.com/">https://www.mohdfadzli.com/</a>

# Forum Panelists & Moderator

## Panelist 1

**PROFESSOR DR.  
KHAIRIYAH BINTI  
MOHD YUSOF**

**Fellow, Centre for  
Engineering Education, UTM**

khairiyah@utm.my



Khairiyah Mohd Yusof is the President for the Society of Engineering Education Malaysia and the Deputy Secretary General of the Academy of Professors Malaysia. She is a professor in the Faculty of Engineering as well as the founding Director and fellow of Universiti Teknologi Malaysia Centre for Engineering Education. She had held positions as Vice President of the Federation of Engineering Education Societies (2012 – 2018) and Board Member representing Asia of the Research in Engineering Education Network (2012 – 2017). She obtained her PhD in Chemical Engineering at the University of Waterloo, Canada, MSc. in Chemical Engineering at Clemson University, USA, and BSc. in Chemical Engineering (summa cum laude) at the University of Alabama, USA.

A practitioner, trainer, mentor, and researcher in scholarly engineering education practices, Khairiyah is grateful for the opportunities to share her work locally and globally, through speaking invitations and conducting workshops throughout Malaysia and various countries in Asia, Australia, Africa, Europe and North and South America. She leads various funded engineering education projects, such as the Consortium Grant on Teaching and Learning for 4IR from the Ministry of Higher Education, the World Bank-funded OBE-SCL training in Higher Education in Afghanistan, Crafting Problems for Learning Control Engineering from Mathworks Inc. USA, and an Engineering X project on Enhancing the Quality of Engineering Education in Indonesia funded by the UK Royal Academy of Engineering. She is on the Editorial and Advisory Boards of several journals, such as the ASEAN Journal of Engineering Education, the Journal of Engineering Education, Journal of Education for Chemical Engineers and European Journal of Engineering Education.

Among her wide-ranging work, she is most passionate about guiding young academics in developing a scholarly approach in higher education, especially in STEM areas. For her work, she received several awards including the 2018 IFEEES Duncan Fraser Global Award for Excellence in Engineering Education, the 2017 Student Platform on Engineering Education Mentoring Award, 2015 Frank Morton Institution of Chemical Engineers (IChemE) Global Award for Chemical Engineering Education Excellence and the 2011 IChemE Malaysia Award on Education and Training. She strongly believes that good teaching should not be limited within the walls of a classroom but should be shared as an example and inspiration for improvement.

# Forum Panelists & Moderator

## Panelist 2

**ASSOCIATE  
PROFESSOR DR.  
ZAINAL ABIDIN BIN  
SANUSI**

**Director, Sejahtera Centre for  
Sustainability and  
Humanity, IIUM**

[zainalsanusi@iium.edu.my](mailto:zainalsanusi@iium.edu.my)



Zainal Abidin Sanusi is currently Director, Sejahtera Centre for Sustainability and Humanity, International Islamic University Malaysia while serving as an Associate Professor at the Department of Political Science, Kuliyyah of Islamic Revealed Knowledge and Human Science. Prior to this post, he served as Minister Council (Education) at Malaysian High Commission, London. He had also served as Deputy Director, Centre for Leadership Training at Higher Education Leadership Academy of the Ministry of Education Malaysia.

A sustainability expert and enthusiast with vast leadership experience. He holds a B.A. in Public Policy and Management from Luton University, UK, an MA in International Relations from the International University of Japan, a PhD in International Studies from Waseda University, Japan and Postdoctoral Fellowship in Sustainable Development from Institute of Advance Studies, United Nation University doing research on the multilateral environmental agreement.

His area of academic specialization is governance and education for sustainable development. He has participated in many international workshop and conferences on the subject as both speaker and invited participant and discussant. In his previous post as the Deputy Director at the Academy, Zainal had directly involved in planning, organising and delivering training program, seminar and workshop on various higher education leadership and governance matters designed for the university leaders.

He was a Visiting Professor at Graduate School of Frontier Science, University of Tokyo engaging in teaching and research on conceptual and organizational challenges in implementing sustainability science in higher education institutions. He has been working and doing research on UNESCO related matter especially Education for Sustainable Development agenda since 2005 and received number of UNESCO grants for such purposes. Throughout the process, he has been invited and engaged with several UNESCO meetings and events that UNESCO is a second nature to his research and academic work.

His current research interests are Sustainability Science, Education for Sustainable Development and Public Policy Analysis.

# Forum Panelists & Moderator

## Panelist 3

**ASSOCIATE  
PROFESSOR DR.  
MOHAMMAD TAZLI  
BIN AZIZAN**

**Associate Professor, Faculty of  
Chemical Engineering,  
UNIMAP**

[m\\_tazli@hotmail.com](mailto:m_tazli@hotmail.com)



Mohammad Tazli Azizan is an Associate Professor at Faculty of Chemical Engineering, Universiti Malaysia Perlis (UNIMAP). He obtained his PhD in Chemical Engineering at the Imperial College London, MSc in Sustainable Engineering at University of Newcastle Upon Tyne and Bachelor of Chemical Engineering at the University of Sheffield.

He had held positions as Chief Executive Officer (CEO), Digital Perak Corporation Holdings (Apr-Dec 2019) and Director, Center for Excellence in Teaching and Learning (CETaL), Universiti Teknologi PETRONAS (2014-2019). As a Director at CETaL, he was responsible to ensure the pedagogical transformation conducted at UTP from teacher centred towards learner centred are established and bring impactful experience to the students and the educators.

He is the core member of a HiCOE - Center of Biofuel and Biochemical Research (CBBR) and Associate Member for Center for Social Innovation (COSI) UTP and the Founding member of Center for Excellence in Teaching and Learning (CETaL) at UTP. His research at CETaL involves Engineering Education Active learning, cooperative learning, flipped classroom, problem based learning and innovation in assessment, Technology in Education, 21st Century Learning Skills and Values and ethics in engineering education. He also has been granted various research grants including research grants in technology education, student-centered learning and pedagogy.

In 2018, he was appointed as a member of National Education Policy Reform to study the existing national educational related policies and propose for improvement and new policies, reported directly to the former Minister of Education, YBM Dr Maszlee Malik.

His publication ranging from ISI/SCOPUS indexed journal, indexed proceedings, book chapters, newspaper articles and books. Related to engineering education/scholarships of teaching and learning, he has authored book chapters and proceedings on Flipped Assessment For Deep Learning, Flipped Cooperative Learning Strategy To Address Surface Learners, Inspiring and Motivating Students and Enhancing High Order Thinking Skills (HOTS). He has also shared his view on learning experience and motivation in newspaper articles and authored books titled Envisioning Teaching and Learning in Higher Education and Travelog PhD. He has also participated in many international workshop, conferences, trainings as keynote/invited speaker, panelist, presenter and trainer regarding the subject.

For his work, he received several awards including Award of Excellence in E-Learning by Global TechLearn Congress in conjunction with World Education Congress 2018 at Mumbai, Gold & Silver Medal for International Innovative Practice at Higher Education Exhibition organized by SEEM & IFEEES (2017), Gold & Bronze Medal for International Universities Carnival in E-learning (IU-CEL 2017) and National Outstanding Educator Award (University Category) during Private Education Excellence Awards 2016.

# Forum Panelists & Moderator

## Moderator

**ASSOCIATE  
PROFESSOR DR.  
JARIAH BINTI  
MOHAMAD JUOI**

**Director, Centre for  
Academics Excellence and  
Scholarship (CAES), UTeM**

[jariah@utem.edu.my](mailto:jariah@utem.edu.my)



Associate Prof. Dr. Jariah Mohamad Juoi received her B. Eng. Hons. (Materials Engineering) and Master of Science (Materials Engineering) degrees from Universiti Sains Malaysia and Hold a Ph. D (Engineering Materials) from University of Sheffield, United Kingdom. She begin her academic position at Universiti Teknologi Petronas (UTP) in 2000 before joining Universiti Teknikal Malaysia Melaka (UTeM) in 2003. She had experienced as the Head of Engineering Material Department, Faculty of Manufacturing Engineering, UTeM; Director for Academic Planning and Development, Deputy of Vice Chancellor (Academic & International) Office, UTeM. Fellow and Deputy Director at the Center for Academics Excellence and Scholarship (CAES), Deputy of Vice Chancellor (Academic & International) Office, UTeM. Currently, she serve as a Director at CAES.

She also serves as Engineering Technology Accreditation (ETAC) panel and involves in various Outcome Based Educational training and consultation. In 2011, she received Teaching Excellent Award in "Anugerah Akademik Universiti (UTeM)". She actively conducting research in the area of Green Materials particularly on recycling of waste materials and antimicrobial coating. She had received various awards including Gold Award in International Invention, Innovation & Technology Exhibition (ITEX), Gold and Platinum Special Award at British Invention Show 2011. She had received various national research grants and provided training and consultation work to industry related to materials engineering and technology. She holds Malaysia Patent on Tiles made from waste glass and had filing a patent on Eco-friendly Printing Ink from Waste Cooking Oil.

She is a registered member of the Board of Engineers Malaysia (BEM), South Region Committee Member of Institute of Materials Malaysia (IMM) and Life Member of Malaysian Invention & Design Society (MINDS).

# i-Talk Speakers



## Adopting Technology in Mathematics Delivery for Engineering Students

*"Learning happens when student is trapped in an environment where they can't escape without thinking".*

Active learning and collaborative learning are the main approaches to engage students in learning and to encourage high participation in class. Adopting technology in teaching can significantly encourage active and collaborative learning.

Speaker 1

**Dr. Rahifa binti Ranom**  
rahifa@utem.edu.my

## Virtual Lab Simulation for Mechanical Engineering Students

Understanding the fundamental testing principle without practical is a big challenge for students. Plant Inspector Virtual Lab was introduced to visualize the Ultrasonic principle in Ultrasonic Testing.



Speaker 2

**Dr. Zakiah binti Abd Halim**  
zakiahh@utem.edu.my

# i-Talk Speakers

## e-Sulam Best Practices for Academic and Character Development: FTKEE Story

The pilot implementation of e-sulam project to first year undergraduate FTKEE students has shown positive results in both academic and non-academic aspects. Students who took part in the project perceive that they have significantly developed their learning skills and have most positive attitudes towards learning.



Speaker 3

**Ts. Dr. Aliza binti Che Amran**  
aliza@utem.edu.my



Speaker 4

**Pn. Nurlisa Loke binti Abdullah**  
nurlisa@utem.edu.my

## Engaging Language Classes on Zooms/Teams

Maintaining attention in online classes is a struggle for both educators and students. Students' attention is no longer captured by randomly calling out their names and integrating humorous content. Inactivity leads to a loss of concentration since they merely stare at the screen without engaging in any activities. Their lack of involvement dampens their enthusiasm for the lesson. To expand their attention span, the educators can use breakout sessions to encourage students to take charge of their learning by participating in discussions in smaller groups to increase attention span.

# i-Talk Speakers



Speaker 5

**Pn. Noor Baiduri binti Abd Halim**  
baiduri@utem.edu.my

## Integrating New Media in Language Teaching

Integrating new media like livestreaming seems to be the way forward in order to simulate the interaction that is crucial in training students for public speaking skills. The need to create authentic interaction, real time audience and a kind of emotional support for students who experience social isolation during this challenging time can be addressed with the use of new media while creating opportunity for students to increase digital literacy.

## Staying Resilient During Pandemic

Students in higher education encounter obstacles such as a lack of internet facilities, a shortage of devices, a lack of coverage and computer equipment restrictions for online learning; all of which have an effect on their overall academic performance. There are concerns over students' well being during the pandemic, or incidents when they quit or defer their studies due to lack of capacity to embrace the new norm of learning.



Speaker 6

**Assoc. Prof. Dr. Mohd Hafiz bin Zakaria**  
hafiz@utem.edu.my

# i-Talk Speakers

## Resilience and Coping Strategies During Pandemic COVID-19

COVID-19 is a new coronavirus disease started in Hubei Province, China in December 2019. It becomes immediate risk to the general public around the world. A large number of studies support the conclusion that the novel coronavirus (SARS-CoV-2) and its corresponding disease (Covid-19) have dramatically impacted people's mental health and behavior.



Speaker 7

**Dr Norida binti Abdullah**  
noridaha@utem.edu.my



Speaker 8

**Assoc. Prof. Dr. Zuhriah binti Ebrahim**  
zuhriah@utem.edu.my

## Integrity in the New Norms Classroom

It is crucial to develop self-awareness integrity among students in the new norms of teaching and learning. Integrity is the highest level of individual quality which above any qualifications, recognitions, and wealth.

# i-Talk Speakers



Speaker 9

**Pn. Johanna binti Abdullah Jaafar**  
johanna@utem.edu.my

## Hands-on Best Practices in Teaching Entrepreneurship

Hands-on teaching for entrepreneurship requires collaboration with industries/companies where students are exposed with best practices in business settings.

## Hands-on Best Practices in Engineering Technology Classroom

Hands-on practice consists of introduction to basic knowledge using manual hand tools within manufacturing daily activities. Due to pandemic, all the assessments had been converted through online and u-learn platform as management system. For subject BMMP 1323 – Manufacturing Process these are the practices.



Speaker 10

**Ts. Dr. Norfariza binti Ab Wahab**  
norfariza@utem.edu.my

# Virtual Workshops for Educators

## Workshop 1

### Become A Google Classroom Master!

This workshop aims to provide the participants with a skill set to master Google Classroom features. At the end of this 2-hour workshop, the participants will be able to:

- create and manage classes, assignments, and grades online without paper.
- add materials to assignments such as surveys, videos and other items from Google Drive.
- use the class stream to post announcements
- engage students in question-driven discussions.
- invite parents and guardians to sign up for email summaries with a student's upcoming or missing work.



### **Ts. Dr. Ahmad Shaarizan bin Shaarani**

Division Head, Open Educational Resource Development,  
Centre for Instructional Resource & Technology (PSTP), UTeM  
[shaarizan@utem.edu.my](mailto:shaarizan@utem.edu.my)

## Workshop 2

### Classcraft: Turn Your Classroom into An Epic Game



This workshop aims to introduce the participants with an advanced approach to engage students in a classroom using an online gamification tool known as Classcraft. At the end of this 2-hour workshop, the participants will be able to:

- understand the concept of gamification in an online learning platform
- create quest for class activity
- use experience point and health point to encourage student participation in a classroom

### **Dr. Ulka Chandini Pedit**

Senior Lecturer, Faculty of Information & Communication Technology (FTMK)  
[ulkachandini@utem.edu.my](mailto:ulkachandini@utem.edu.my)

# Committee Members

## PATRON

Professor Dr. Zulkiflie Bin Ibrahim

## PROGRAM CHAIR

Assoc. Prof. Dr. Jariah Binti Mohamad Juoi

## DEPUTY PROGRAM CHAIR 1

Assoc. Prof. Dr. Mariam Binti Md Ghazaly

## DEPUTY PROGRAM CHAIR 2

Dr. Khairul Anwar Bin Ibrahim

## SECRETARY 1

Noraini Binti Buang

## SECRETARY 2

Norerni Binti A. Rahman

## FINANCE

Muhammad Fahmi Izzudin Bin Isa

## FLOOR MANAGER

Ts. Syariffanor Binti Hisham (Head)

Dr. Nabil Hasan Saleh Al Kumaim

Dr. Hanim Binti Abdul Razak

Assoc. Prof. Dr. Mohd Hafiz Bin Zakaria

Ts. Dr. Muhammad Haziq Lim Bin Abdullah

Shahril Bin Parumo

## REGISTRATION, BANQUET & SOUVENIR

Ts. Dr. Zaiton Binti Abdul Mutalip (Head)

Dr. Zanariah Binti Jano

Noornahar Binti Akashah

Alidah Binti Mohd Ali

Mariana Binti Jelani

## TECHNICAL PAPER & PUBLICATION

Dr. Shamsul Anuar Bin Shamsudin (Head)

Ts. Dr. Sazalinsyah Bin Razali

Dr. Husna Binti A Hamid

Dr. Ahamed Fayeez Bin Tuani Ibrahim

Dr. Mohd Shamsuri Bin Md Saad

## PUBLICITY & PROMOTION

Dr. Zakiah Binti Abd Halim (Head)

Ts. Dr. Lizawati Binti Salahuddin

Ts. Siti Rosmaniza Binti Ab Rashid

Hisamudin Bin Kamarudin

Mohammad Isham Bin Ishak

## JUDGING & EXHIBITION

Ts. Dr. Hazriq Izzuan Bin Jaafar (Head)

Dr. Jamil Abedalrahim Jamil Alsayaydeh

Ts. Dr. Adam Wong Yoon Kang

Hairul Bin Bakri

## LOGISTIC

Dr. Ir. Ridza Azri Bin Ramlee (Head)

Dr. Wan Mohd Ya'akob Bin Wan Bejuri

Muhamad Azmi Bin Zainal

Nur Fathiah Binti Zulkifli

Zulaiha Binti Md. Ali

Asmadi Bin Daud

Abdul Halim Bin Abdul Mokte

## SPONSOR

Ts. Dr. Norfariza Binti Ab Wahab (Head)

Datin Dr. Fadzilah Binti Salim

# Poster Juries

## UNIVERSITI MALAYSIA PERLIS

Ahmad Anas Nagoor Gunny  
Akmal Hadi Ma'Radzi  
Dewi Suriyani Che Halin  
Hafiza Shukor  
Heah Cheng Yong  
Ina Suryani Ab Rahim  
Khor Shing Fhan  
Ku Nurul Fazira Ku Azir  
Lee Yeng Seng  
Liew Yun Ming  
Mohd Aminudin Jamlos  
Mohd Najmuddin Mohd Hassan  
Mohd Uzair Mohd Rosli  
Muhamad Hafiz Masran  
Muhammad Asyraf Mohd Kassim  
Noor Hasyierah Mohd Salleh  
Nor Azizah Parmin  
Norshah Aizat Shuaib  
Nur Anira Asyikin Hashim  
Shazlina Johari  
Siti Marhainis Othman  
Siti Nur Aishah Mat Yusuf  
Siti Nurul Aqmariah Mohd Kanafiah  
Siti Zuraidah Ibrahim  
Sohiful Anuar Zainol Murad  
Umar Kassim  
Umi Fazara Md Ali  
Wan Azani Wan Mustafa  
Wan Nor Munirah Ariffin  
Zafifah Zamrud

## UNIVERSITI MALAYA

Adelina Asmawi  
Eric Chung  
Lau Kui Ling  
Lau May Nak  
Looi Mee Lee  
Phan Chia Wei  
Rosie Pamela Shashikala David  
Sithi Vinayakam Muniandy

## UNIVERSITI UTARA MALAYSIA

Mardzelah Makhsin  
Mohd Hasbullah Omar  
Norazlinda Saad  
Norhafezah Yusof  
Ratnaria Wahid  
Surendran Sankaran

## UNIVERSITI MALAYSIA KELANTAN

Asanah Radhi  
Elvaene James  
Lena Ramamurthy  
Mahathir Muhamad  
Mohamad Bashree Abu Bakar  
Mohamad Najmi Masri  
Mohd Fathi Abu Yaziz @ Mohamad  
Nazahatul Anis Amaludin  
Noor Janatun Naim Jemali  
Noor Syuhadah Subki  
Nur Hafezah Hussein  
Raja Norliana Raja Omar  
Ruhil Hayati Hamdan  
Shaparas Daliman  
Siti Aisyah Nawawi  
Siti Salina Saidin  
Syakirah Shafien  
Tan Li Peng  
Tan Tse Guan  
Velan Kunjuraman

## POLITEKNIK TUANKU SYED SIRAJUDDIN, PERLIS

Choong Chee Guan  
Mohd Zulfabli Hasan  
Nadzri Che Kamis  
Yap Tek Hong

## UNIVERSITI TUN HUSSEIN ONN MALAYSIA

D'oria Islamiah Rosli  
Erween Abd Rahim

## UNIVERSITI TEKNOLOGI MARA (CAWANGAN KELANTAN)

Julaina Baistaman

## UNIVERSITI MALAYSIA TERENGGANU

Noor Maizura Mohamad Noor

## UNIVERSITI SAINS ISLAM MALAYSIA

Mohammad Najib Jaffar

## UNIVERSITI KUALA LUMPUR

Alia Amira Abd Rahman

## UNIVERSITI SAINS MALAYSIA

Rozniza Zaharudin

## UNIVERSITI MALAYSIA SABAH

Sylvester Bin Mantihal

## POLITEKNIK KUCHING SARAWAK

Ong Tze Ching

## UNIVERSITI PERTAHANAN NASIONAL MALAYSIA

Rozita Husain

# Reviewers

## UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Afiqah Hamzah  
 Albert Feisal @ Muhd Feisal Ismail  
 Anuar Mohamed Kassim  
 Azhan Rahman  
 Ernie Mat Tokit  
 Fauzi Abdul Wahab  
 Husna A.Hamid  
 Intan Azmira Wan Abdul Razak  
 Jamil Abedalrahim Jamil Alsayaydeh  
 Jurifa Mat Lazi  
 Kasturi Kanchymalay  
 Kyairul Azmi Baharin  
 Lokman Abdullah  
 Maaspaliza Azri  
 Maslan Zainon  
 Mastura Mohammad Taha  
 Md. Fahmi Abd. Samad  
 Mohamad Hafiz Harun  
 Mohamad Najmi Masri  
 Mohammad Kamil Sued  
 Mohd Afzanizam Mohd Rosli  
 Mohd Amin Mohamad  
 Mohd Fazli Mohd Sam  
 Mohd Hadzley Abu Bakar  
 Mohd Hafidzal Bin Mohd Hanafi  
 Mohd Hendra Hairi  
 Mohd Razali Mohamad Sapiee  
 Mohd Yuhazri Yaakob  
 Mohd Zaid Akop  
 Muhammad Zulfattah Zakaria  
 Nazreen Waeleh  
 Nidzamuddin Md. Yusof  
 Nor Lailatul Azilah Hamdzah  
 Norfariza Ab Wahab  
 Nortazi Sanusi  
 Nur Hazahsha Shamsudin  
 Nur Hazwani Mokhtar  
 Nur Izan Syahriah Hussein  
 Nurul Amira Zainal  
 Nurul Azma Zakaria  
 Nurul Hanim Razak  
 Rahifa Ranom  
 Robiah Yusof  
 Rose Farahiyah Munawar  
 Rozaimi Ghazali  
 Ser Lee Loh  
 Shafizal Mat  
 Shamsul Anuar Shamsudin  
 Siti Azirah Asmai

Siti Khadijah Idris@Othman  
 Suriati Akmal  
 Syahibudil Ikhwan Abdul Kudus  
 Wahidah Md Shah  
 Wan Hasrulnizam Wan Mahmood  
 Yusri Arshad  
 Zaihasraf Zakaria  
 Zanariah Jano  
 Zarina Binti Baharudin Zamani  
 Zarita Binti Mohd Kosnin  
 Zulkeflee Abdullah  
 Zuraini Othman  
 Zurina Sa'aya  
 Zurina Shamsudin

## UNIVERSITI PENDIDIKAN SULTAN IDRIS

Siti Shuhaida Shukor

## UNIVERSITI MALAYSIA KELANTAN

Mardawani Mohamad

## BINA NUSANTARA UNIVERSITY

Safarudin Gazali Herawan

## UNIVERSITI TEKNOLOGI MARA

Alya Geogiana Buja  
 Azlan Abdul Aziz  
 Ibrahim Ahmad  
 Nurulhuda Ghazali  
 Solehuddin Shuib  
 Siti Nafisah Md Rashid

## UNIVERSITI SAINS ISLAM MALAYSIA

Lubna Abd Rahman  
 Mohammad Najib Jaffar  
 Najwa Hayaati Mohd Alwi  
 Ramiaida Darmi  
 Siti Salhah Othman

## UNIVERSITI MALAYSIA PERLIS

Mohamad Suhaimi Shahrin  
 Mohd Fairus Ahmad  
 Mohd Uzair Mohd Rosli

## UNIVERSITI TUN HUSSEIN ONN MALAYSIA

Normah Zakaria

## UNIVERSITI MALAYSIA SARAWAK

Rohana Sapawi

# Sponsors

EDUTECH SUPPLY & SERVICES

**We Provide  
Education Industrial Supply  
And  
Engineering Solution**

Email : edutechss84@gmail.com  
: sales.edutechss@gmail.com

Tel : 06-233 9252  
Fax : 06-233 9241



**SERTAI KAMI SEKARANG**

**KEAHLIAN PUSPANITA CAWANGAN UTeM**

**Keistimewaan Ahli Seumur Hidup (ASH)**

**Proses Pembayaran**

Deposit atau pindahkan pembayaran ke akaun MAYBANK (No. Akaun: 566010623547) atas nama PUSPANITA. Emelkan bukti pembayaran ke [persatuan.pk@1govuc.gov.my](mailto:persatuan.pk@1govuc.gov.my) / [bayaran.pk@1govuc.gov.my](mailto:bayaran.pk@1govuc.gov.my). Sila nyatakan sekali nombor invoice dan emel.

**YURAN PERCUMA**  
Hanya bayar RM10.00 untuk cetakan kad keahlian seumur hidup.

**BANTUAN TABUNG**  
Ahli dan keluarga (suami dan anak-anak) yang menghidap barah atau penyakit-penyakit lain mengikut **Senarai Penyakit Yang Diluluskan** layak memohon bantuan dari **Tabung PUSPADARA PUSPANITA**.

**SERTAI PROGRAM**  
Berpeluang sertai setiap **program atau aktiviti khas** anjuran PUSPANITA dan program berterusan anjuran **Tabung Latihan**. Dan **pelbagai tawaran menarik** turut menanti.

Ahli berpeluang berpeluang mendapat ganjaran diskaun di  Jakel  Mavi  Lenovo  Ariani  Pine Kitchen

**Sila Hubungi** **03-8884 0300/2142 1332**  
(PUSPANITA KEBANGSAAN)  
Emel: [persatuan.pk@1govuc.gov.my](mailto:persatuan.pk@1govuc.gov.my)

# Sponsors



UTeMASA

**SUDAH SERTAI  
KAMI?**

UTeMASA

"Persatuan Staf Akademik Universiti  
Teknikal Malaysia Melaka"



Semak status  
keahlian di SINI



Jika belum ahli, scan QR  
code dan isi borang  
keahlian ATAU klik SINI

**FB :** <https://www.facebook.com/utemasa.official>

**WEB PAGE :** <https://utemasa.utem.edu.my/>