

INNOVATIVE TEACHING & LEARNING RESEARCH DAY **2019**

InTReD' 19
 Innovative Teaching & Learning Research Day 2019

"Nurturing Academics, Growing Ideas"



29 AUGUST 2019
Kampus Teknologi
UTeM

Organised by:



Supported by:



Main Sponsored by:



KONICA MINOLTA

Sponsored by:





KONICA MINOLTA

Giving Shape to Ideas

RETHINK THE FUTURE

Armed with over 140 years of expertise, our customer-centric innovation and solutions enable business to connect and transform in the wave of digital innovation.

**INTEGRAL VALUE PROVIDER FOR THE
WORKPLACE OF THE FUTURE**



IT SOLUTIONS



AUTONOMOUS ROBOTS



OFFICE SOLUTION



IOT SECURITY &
MONITORING SOLUTION



DIGITAL MANUFACTURING
SOLUTIONS

KONICA MINOLTA BUSINESS SOLUTIONS (M) SDN BHD (72640-P)
Infinite Centre, Lot 1, Jalan 13/6, 46200 Petaling Jaya, Selangor, Malaysia.

CONTACT US: Sales & Marketing

Tel: +603-7801 2511 Fax: +603-7954 8316 Email: marketing_1@konicaminolta.com

[facebook.com/konicaminoltamy](https://www.facebook.com/konicaminoltamy)

[linkedin.com/company/konicaminoltamy](https://www.linkedin.com/company/konicaminoltamy)

www.konicaminolta.com.my/home

Welcome To

InTReD' 19

Innovative Teaching & Learning Research Day 2019

The main objective of InTReD'19 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 1 Creative and Innovative in Teaching & Learning

Track 2 Learning Technology

Track 3 Learning Skills

Track 4 TVET Teaching and Learning

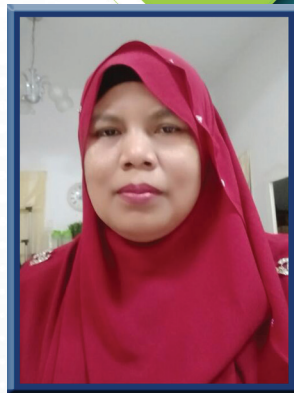
Track 5 STEM Education

Track 6 e-Teaching Portfolio

Table of Content

Welcome Message from the InTReD'19 Program Chair	5
Program Tentative	6
InTReD'19 Floor Map	8
List of Poster Presentation	9
List of E-Teaching Portfolio	15
List of Committee Member	16
List of Reviewer	17
List of Poster Jury	18
InTReD'19 Location	19
Acknowledgement	20

Welcome Message From InTReD'19 Program Chair



InTReD'19 plays a very important role both for researchers and students. With its theme *"Nurturing Academics, Growing Ideas"*. InTReD'19 has proven to be a very good platform for upcoming researchers to present their research output to the world at large. As for our students who come here to learn from, and work with the best researchers, expectations are abundant in every way. In a way, InTReD'19 can proudly claim to have achieved the aspirations of every member of the academic community. InTReD'19 paves the way for our researchers to display their research outcomes and contribute to the growing body of knowledge on innovation in global higher education.

Thank you.

Profesor. Ts. Dr. Faaizah Shahbodin
Chairman

Program Tentative

Time	Program	Venue
7:50 am – 8:30 am	Registration for Participants and Judges (<i>Participant setup poster</i>)	Registration Counter, FTK Lobby
8:30 am – 8:45 am	Opening InTRED'19	Dewan UTeM 1, Kampus Teknologi
8:45 am – 10.30 am	<i>i-Talk</i> (5-minute session) Session 1: Problem Based Learning (PBL) Speaker: Prof. Ts. Dr. Faaizah Shahbodin Session 2: Be a Learning Designers Speaker: Ts. Ahmad Shaarizan Shaarani Session 3: Reflective Thinking Speaker: Prof. Dr. Hanipah Hussin Session 4: Pedagogical Technology Speaker: Dr. Zulisman Maksom Session 5: Learning Assessment Speaker: Ts. Dr. Gede Pramudya Ananta Session 6: Digital Native Speaker: Dr. Muliati Sedek Session 7: NLP Speaker: Dr. Amir Aris Session 8: Teaching Portfolio Speaker: Assoc. Prof. Dr. Jariah Mohamad Juoi Session 9: TVET Speaker: Assoc. Prof. Ts. Dr. Muhammad Fahmi Miskon Session 10: Educator 4.0 Speaker: Ts. Dr. Siti Nurul Mahfuzah Muhamad	

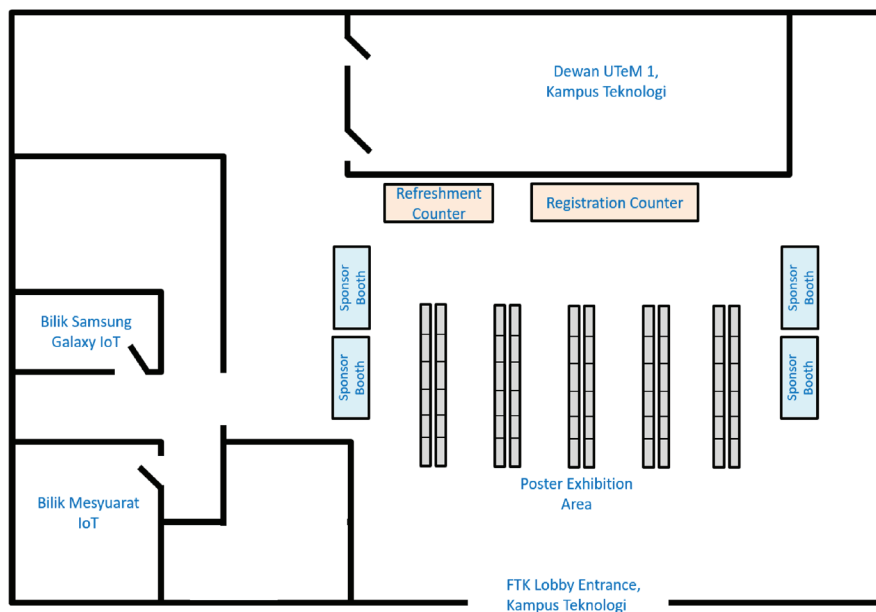
Program Tentative

Time	Program	Venue
10:30 am – 10:45 am	Poster Exhibition Tour by VIP	FTK Lobby
	Briefing to Poster Juries	Bilik Mesyuarat IoT
10:45 am – 11.00 am	Refreshment	FTK Lobby
11.00 am – 1:00 pm	Poster Exhibition and Judging	FTK Lobby
	e-Teaching Portfolio and Judging	Bilik Samsung Galaxy IoT
1:00 pm – 2:30 pm	Lunch Break	FTK Lobby
2:30 pm – 4:00 pm	Forum “Nurturing Academics, Growing Ideas” Moderator : Prof. Ts. Dr. Faaizah Shahbodin Speaker 1: Professor Dr. Abd Karim Alias (School of Industrial Technology, USM) o National Academic Award (AAN 2008) Winner: Teaching Award Speaker 2 : Dr. Adibah Abdul Latif (School of Education, UTM) o Anugerah Khas Yb Menteri Pendidikan Malaysia: Reka Bentuk Kurikulum Dan Penyampaian Inovatif Tahun 2018 (AKRI 2018) Winner: Transformative Teaching Alternative Assessment Award Speaker 3: Assoc. Prof. Dr. Mohd. Kamaruddin Abd. Hamid (School of Engineering, UTM) o Anugerah Khas Yb Menteri Pendidikan Malaysia: Reka Bentuk Kurikulum Dan Penyampaian Inovatif Tahun 2018 (AKRI 2018) Finalist: Blended Immersive Learning Experience Award	Dewan UTeM 1, Kampus Teknologi
4:00 pm – 5:00 pm	Closing Ceremony and Awards Presentation	
5:00 pm	Refreshment	FTK Lobby

InTReD' 19

Innovative Teaching & Learning Research Day 2019

FLOOR MAP



LIST OF POSTER PRESENTATION

Paper Id	Track Name	Paper Title	Authors
4	Creative And Innovative Teaching And Learning	Integration Of Technology And Peer Evaluation To Enhance Student Evaluation Process In Pharmacy Education	Lai Jun Hua, Chan Siok Yee, Thaigarajan Parumasivam
6	Learning Technology	Biopharm: A Student Created Website For The Learning Of Rapid-Growing Field Of Biopharmaceuticals	Thaigarajan Parumasivam
8	Learning Technology	Learning Bahasa Melayu Using Augmented Reality (AR) Mobile Application For Primary School	Nadhras Abdul Hadi, Faaizah Shahbodin, Nor Farah Naquiah Mohamad Daud
9	Creative And Innovative Teaching And Learning	Islamic Journalistic Model Of News Writing: The Effective Tips For News Writing By Using Acrostic Model	Fauziah Hassan, Sofia Hayati Yusoff, Osama Kanaker, Muhammad Zaki Mustafa
11	Learning Skills	Recognizing Suggestions By Iraqi EFL Learners: A Politeness Perspective	Mushtaq A. Sharqawi, Elizabeth M. Anthony
13	Learning Technology	Developing Courseware Usability Of Human Body Part For Secondary Level	Nurul Aiman Abdul Rahim, Faaizah Shahbodin, Ajrun Azhim Zamry
15	Creative And Innovative Teaching And Learning	Exploration Of Action Video As An Innovative Assessment In Mechanical Engineering Laboratory	Zakiah Abd Halim
16	Creative And Innovative Teaching And Learning	Teaching Of Microcomputer Technology Through Practical Robotic Ground Vehicle Application	Md Fahmi Abd Samad, Zairulazha Zainal
17	Learning Technology	Triz For Organizing And Planning Final Year Project	Mai Mariam Mohamed Aminuddin, Muhammad Noorazlan Shah Zainudin
18	Creative And Innovative Teaching And Learning	Behavioral Observation Of An Autistic Student: A Case Study At KLIA Complex Secondary School, Nilai	Norazila Suboh

Paper Id	Track Name	Paper Title	Authors
19	Technical Teaching And Learning	The Effect Of Using Data Show In Teaching A Methodology Course On Iraqi Male Students' Achievement	Hawraa T. Salman, Zailin Shah Yusoff
20	Creative And Innovative Teaching And Learning	Fun Math's Game For Kids To Learn Basic Mathematics Of Addition And Subtraction Operation: Usability Findings	Raidah Yazid, Faaizah Shahbodin, Nur Syazwani Sukormo
21	Learning Skills	Epistemological Belief And Learning Approaches Among Engineering Undergraduate.	Hafzan Ariffin, Norun Najah Ahmat, Muliati Sedek
22	Technical Teaching And Learning	Investigation On Marketability Of Video Lectures' Notes Extraction	Hidayah Rahmalan, Loo Wei Seng, Syahida Mohtar, Muhammad Fahmi Miskon, Sharifah Sakinah Syed Ahmad
23	Creative And Innovative Teaching And Learning	Empowering Teaching And Learning For Industry 4.0 Through Development Of Open Source 3d Printing Project	Mohd Rizal Alkahari, Nor Ana Rosli, Hairul Nezam Wahid, Azma Putra, Mohd Afzanizam Mohd Rosli, Mohd Zaid Akop, Faiz Redza Ramli, Norasra A. Rahman, Safarudin Gazali Herawan
24	Learning Technology	A Survey On The Perception Level Of Mobile-Based Exam: A Case Study Of The Wawasan Open University Students	Ee Fang Teng, Mohd Hezri Marzaki, Asrul Adam, Muhammad Izzat Zakwan Mohd Zabidi, Amar Faiz Zainal Abidin, Arman Hadi Azahar, Mohamad Haniff Harun, Sigit Widiyanto, Syahrul Hisham Mohammad
26	Creative And Innovative Teaching And Learning	Utilization Of E-Learning Portal For Self-Reflection To Improve Students' Performance In Engineering Subject	Rafidah Hasan

Paper Id	Track Name	Paper Title	Authors
27	Creative And Innovative Teaching And Learning	Reliability Analysis Of The Learning Effectiveness Scale In Team-Teaching For Engineering Subject In UTeM	Nurdiana Nordin, Aziah Khamis, Jariah Mohamad Juoi
28	Learning Technology	Rabbit And Carrot Electronic Board Game: The Development Of An Educational Kit That Test Student Knowledge In Flowchart Concept	Muhammad Izzat Zakwan Mohd Zabidi Mohd Zabidi, Amar Faiz Zainal Abidin
29	Learning Technology	Logic Gate Truth Table Generator: The Development Of Hardware-Based Educational Simulator For Conversion Of Combinatorial Circuit To Truth Table.	Muhammad Izzat Zakwan Mohd Zabidi Mohd Zabidi, Amar Faiz Zainal Abidin
30	Creative And Innovative Teaching And Learning	Programme Outcomes Attainment Measurement Method For Bachelor Of Electrical Engineering	Aziah Khamis, Nur Ilyana Anwar Apandi, Azrita Alias, Maaspaliza Azri, Mohd Luqman Mohd Jamil
31	Stem Teaching And Learning	ibooks For Generation Z In STEM Education	Yan Chiew Wong, Ser Lee Loh, Ranjit Singh Sarban Singh, AR Syafeeza , Nur Alisa Ali
32	Technical Teaching And Learning	IoT Smart Automatic Pet Feeder	Wahidah Abd Halim, Liew Wan Sheng, Heng Khai Zeng, Lim Jia Huey, Nurul Syakirah Mohamad Zaid, Norhatikah Mohd Ismail, Qurratu'aini 'Ammarah Mohd Yusof
34	Creative And Innovative Teaching And Learning	Reinforced Learning Through Video Assignments For Electromagnetic Theory Subject	Kyairul Azmi Baharin, Anis Niza Ramani, Aine Izzati Tarmizi

Paper Id	Track Name	Paper Title	Authors
35	Technical Teaching And Learning	Enhancing Students Apprehension And Technical Competency Through An Experimental Course: A Case Study At Technical University Of Denmark (DTU)	Mohd Rusdy Yaacob, Clara Marika Velte
36	Creative And Innovative Teaching And Learning	Feedback System In A Blended Learning Environment To Support Self-Regulated Learning: A Case Study Of Engineering Graphics Course	Masni-Azian Akiah, Ruzy Haryati Hambali, Suriati Akmal
37	Learning Skills	Students' Perceptions On Lecturers Characteristics In Engineering Faculty	Zaiton, A.M., Rahim H.R.A., Kamarul, A.M.
38	Learning Technology	E-Learning In Malaysian Higher Institution	Mohd Fauzi Kamarudin, Syed Najmuddin Syed Hassan, Anidah Robani
39	Stem Teaching And Learning	Clusters In Mathematics That Influence Performance Of Undergraduate Students On Engineering Mathematics	Ser Lee Loh, Yan Chiew Wong, Rahifa Ranom, Irma Wani Jamaludin
40	Technical Teaching And Learning	DESCUM Approach In Redesigning Core Abilities (CA) Standards For Competency-Based Training System Implementation	Zaharudin Abdul Latif, Mohd Yazid Awalludin, Noorazuan Md Hashim
41	Learning Skills	The Effects Of Cultural Aspects On Animation For Pre-Schoolers In Malaysia	Nurul Diyana Harithuddin, Ahmad S. Shaarani
42	Creative And Innovative Teaching And Learning	The Effectiveness Of Individual Assignments	Nur Hakimah Ab aziz, Norazhar Abu Bakar, Norhafiz Salim, Sharin Ab Ghani
44	Learning Technology	Design Consideration Of Virtual Reality Application For Individuals With Autism Spectrum Disorder	Zareena Rosli, Faaizah Shahbodin, Che Ku Nuraini Che Ku Mohd, Suriawati Suparjoh

Paper Id	Track Name	Paper Title	Authors
45	Learning Technology	MOOC: Propelling Students' Enthusiasm	Tengku Intan Suzila Tengku Sharif ,Siti Rohana Omar, and Mohd Yusri Mohamad Noor
46	Creative And Innovative Teaching And Learning	Development Of Online Management System For Effectively Organizing Student's Project	W. H. M. Saad, Y. G. Soo, H. Haroon, H. A. Razak, M. M. Ibrahim, S. I. Samsudin, A. S. M. Zain, S. K. Idris, M. R. Kamarudin, A. M. Darsono
47	Creative And Innovative Teaching And Learning	Leveraging Group Members' Knowledge In An Undergraduate Engineering Class Project: Lower CGPA Students Attain Higher Outcomes	Rahimah Abdul Hamid, Nurdiana Nordin
48	Technical Teaching And Learning	Needs Analysis For English For Police Patrol Officers Course	Halim,N.B.A., Husin,N.
49	Learning Technology	The Two-Stroke Swivel Motion Engine Performance Using The Lotus Engine Simulation Software	Shamsul Anuar Shamsudin, Safarudin Gazali Herawan, Zairulazha Zainal
50	Creative And Innovative Teaching And Learning	Comparing Student Scores Between Blended And Face-To-Face Learning: Case Study Of Engineering Mathematics Ii	Mohd Shahrizan Othman, Nurul Wirdah Mafazi, Masni-Azian Akiah, Noraiham Mohamad
52	Creative And Innovative Teaching And Learning	Measuring Item Quality: A Case Study	Gede Pramudya, Muhammad Suyanto, Zuraida Abal Abas, Siti Nur Azrreen Ruslan, Aliza Che Amran

Paper Id	Track Name	Paper Title	Authors
53	Learning Skills	Analysis Of The Learning Styles Of Part Time Degree Program Upon Their Academic Performances: A Case Of BEKG Programme In UTeM	Rahifa Ranom, Irma Wani Jamaludin, Ser Lee Loh
54	Learning Technology	Feasibility Study On Gamification Approach For Learning A Software Engineering Subject	Nur Faiqah Ab Hamid, Mashanum Osman, Sazalinsyah Razali , Nor Haslinda Ismail
55	Technical Teaching And Learning	Wearable Spine Posture Protective Vest Using IoT	Mariam Md Ghazaly, Muhammad Izzat Mohd Jahid, Clement Wong Ong Sing, Mohd Shahrul Hakimi Isa Chong Zi Yuan, Bibi Nur Azreen Bhari
56	Creative And Innovative Teaching And Learning	Description And Feedback Of Collaborative Learning Using Microsoft Onenote For Malaysian University Students	Noor Saffreena Hamdan, Siti Nor'ain Mokhtar, Halyani Mohd Yassim
58	Learning Skills	Inculcating The Concept And The Role Of Khalifa Among Students (The Future Tourist)	Norunnajjah Ahmat, Mazni Saad, Siti Aisah Abas, Anidah Robani, Fam Soo Fen

LIST OF e-TEACHING PORTFOLIO

Venue: Bilik Samsung Galaxy IoT

Time Slot	Paper Id	e-Teaching Portfolio	Affiliation
10.50-11.00 a.m	2	Norliza Ab Halim	Kolej Komuniti Kuala Kangsar
11.00-11.10 a.m	43	Mohamad Afiq Amiruddin Parnon	Universiti Teknikal Malaysia Melaka
11.10-11.20 a.m	51	Assoc. Prof. Dr. Azma Putra	Universiti Teknikal Malaysia Melaka
11.20-11.30 a.m	57	Assoc. Prof. Datuk Dr. Su'aidi Dato' Safei	Universiti Teknikal Malaysia Melaka
11.30-11.40 a.m	59	Zarina Mohd Noh	Universiti Teknikal Malaysia Melaka
11.40-11.50 a.m	60	Dr. Wira Hidayat Mohd Saad	Universiti Teknikal Malaysia Melaka
11.50-12.00 p.m	61	Dr. Muhammad Noorazlan Shah Zainudin	Universiti Teknikal Malaysia Melaka
12.00-12.10 p.m	62	Khairul Azri Azlan	Universiti Teknikal Malaysia Melaka
12.10-12.20 p.m	63	Dr. Zakiah Abd Halim	Universiti Teknikal Malaysia Melaka
12.20-12.30 p.m	64	Dr. Rafidah Hasan	Universiti Teknikal Malaysia Melaka
12.30-12.40 p.m	65	Dr. Muhammad Idzdihar Idris	Universiti Teknikal Malaysia Melaka
12.40-12.50 p.m	66	Dr. Rahifa Ranom	Universiti Teknikal Malaysia Melaka
12.50-1.00 p.m	67	Dr. Nadiyah Ahmad	Universiti Teknikal Malaysia Melaka

LIST OF COMMITTEE MEMBER

Patron

Prof Datuk Ts. Dr. Mohd Razali Muhamad

Program Chair

Prof. Ts. Dr. Faaizah Shahbodin

Secretary

Mrs. Noraini Buang

Finance

Mrs. Noorhaizah Ibrahim

Mrs. Mariana Mohd Amin

Floor Manager

Dr. Rafidah Hasan (Head)

Dr. Zakiah Abd Halim

Dr. Zurina Shamsudin

Dr. Ernie Mat Tokit

Registration, Banquet and Souvenir

Mrs. Noraini Buang (Head)

Dr. Che Ku Nuraini Che Ku Mohd

Dr. Indra Devi Subramaniam

Dr. Farah Shahnaz Feroz

Mrs. Mariana Jelani

Mrs. Erni Suhadah Mod Husin

Mrs. Azlinah Ajis

Mrs. Zulaiha Md Ali

Mrs. Nur Fathiah Zulkifli

Mrs. Noor Syilawati Ahmad

Mrs. Sharifah Aishah Syd Ismail

Mrs. Nur Fathiah Zulkifli

Mr. Asmadi Md Daud

Technical Paper & Publication

Assoc. Prof. Dr. Mariam Md Ghazaly (Head)

Assoc. Prof. Madya Dr. Jariah Mohamad Juoi

Dr. Zanariah Jano

Dr. Ibrahim Ahmat

Dr. Fatimah Al-Zahrah Mohd Sa'at

Dr. Muliati Sedek

Publicity and Promotion

Ts. Dr. Aliza Che Amran (Head)

Ts. Dr. Norfariza Ab Wahab

Dr. Wahidah Abd Halim

Mr. Mohammad Isham Ishak

Mr. Muhamad Azmi Zainal

Mrs. Aziza Md Buang

Mr. Khairul Fakhrlradhi Borhan

Judging & Exhibition

Ts. Ahmad Shaarizan Shaarani (Head)

Ts. Dr. Gede Pramudya Ananta

Ts. Dr. Siti Nurul Mahfuzah Mohamad

Logistic

Mr. Adlan Ali (Head)

Mr. Mohammad Isham Ishak

Mr. Abdul Halim Mokte

Sponsor

Assoc. Prof. Dr. Mariam Md Ghazaly

Assoc. Prof. Madya Dr. Jariah Mohamad Juoi

LIST OF REVIEWER

Universiti Teknikal Malaysia Melaka

A.Nasoruddin Mohamad
Ahmad Fauzan Kadmin
Ahmad Fuad Ab Ghani
Aiman Zakwan Jidin
Akmaliah Othman Norfaridatul
Che Ku Nuraini Che Ku Mohd
Faizil Wasbari
Farah Bazilah
Gede Pramudya
Halyani Mohd Yassim
Indra Devi A/P M.Subramaniam
Jariah Mohamad Juoi
Linda Khoo
Mai Mariam Mohamed Aminuddin
Md. Fahmi Abd. Samad
Mei Phng Lee
Mohamed Saiful Firdaus Hussin
Mohd Afzanizam Mohd Rosli
Mohd Fairuz Dimin @ Mohd Amin
Mohd Fauzi Kamarudin
Mohd Fazli Mohd Sam
Mohd Hadzley Abu Bakar
Mohd Hafidzal Mohd Hanafi
Mohd Hendra Hairi
Mohd Irman Ramli

Universiti Teknologi Mara

Aziean Jamin
Norfadhilah Mohd Akhuan
Nur Dalila Khirul Ashar
Siti Nafisah Md Rashid
Siti Solehah Md Ramli

Mohd Rizal Alkahari
Mohd Ruzaini Hashim
Mohd Safirin Karis
Mohd Zaid Akop
Noorli Khamis
Nor Azmmi Masripan
Nor Faizah Haminudin
Norihan Abdul Hamid
Nortazi Sanusi
Nur Hazwani Mokhtar
Nur Zareen Zulkarnain
Nurul Azma Zakaria
Nurul Hilwa Mohd Zini
Siti Nor Habibah Hassan
Siva Kumar Subramaniam
Sivakumar Dhar Malingam
Suraya Ahmad
Syarulnaziah Anawar
Wan Norhisyam Abd Rashid
Zaiton Abdul Mutalip
Zarina Baharudin Zamani
Zarita Mohd Kosnin
Zuhriah Ebrahim
Zulkeflee Abdullah
Zurina Shamsudin

Universiti Sains Islam Malaysia

Mohammad. Najib Jaffar

Universiti Malaysia Terengganu

Noraida Haji Ali

International Islamic University Malaysia

Afiza Mohamad Ali

LIST OF POSTER JURY

Universiti Teknologi Mara

Faiqah Hafidzah Halim
Halimahton Borhan
Maheran Katan
Masilah Mohamad
Mumtaz Ahmad
Nabilah Abdul Shukur
Noor Hasvenda Abd Rahim
Nordayana Zulkifli
Nur Farahin Mohd Johari
Raja Mayang Delima Mohd Beta
Ratna Zuarni Ramli
Siti Norazura Jamal

Universiti Sains Islam Malaysia

Hazleena Baharun
Ramiaida Darmi
Siti Rosilawati Ramlan
Zalika Adam

Universiti Pendidikan Sultan Idris

Asma Hanees Ariffin
Irdyanti Mat Nashir
Sethuprakash Vengidason

Universiti Putra Malaysia

Ramiza Darmi

Multimedia University

Faezah Othman
Syarifah Diyanah Yusoh
Siti Iradah Ismail

Universiti Tun Hussein Onn Malaysia

Mohd Helmy Abd Wahab
Sasitharan Nagapan

Universiti Pertahanan Nasional Malaysia

Nor Azliana Akmal Jamaludin

Politeknik Tuanku Sultanah Bahiyah

Mohd Faizal Jamaludin

Politeknik Banting

Siti Rosminah Md Derus

Melaka International College Of Science And Technology

Abdul Hasib Sadiqin Adam Shukri

Kolej Cosmopoint Melaka

Saharah Be Sahul Hameed

InTReD' 19 LOCATION

Innovative Teaching & Learning Research Day 2019

Kampus Teknologi UTeM



ACKNOWLEDGEMENT

Main sponsored by:



KONICA MINOLTA

Konica Minolta Business Technologies (Malaysia) Sdn. Bhd.

Sponsored by:



SAMSUNG SDI

Samsung SDI Energy Malaysia Sdn. Bhd.



Persatuan Staf Akademik UTeM



Malaysia Association of Problem
Based Learning

Best award sponsored by:



Centre for Academics Excellence and Scholarship (CAES), UTeM

Supported by:



Malaysian Higher Education Teaching and Learning Council