

# Universiti Tun Hussein Onn Malaysia

## Staff Profile

<b>Full Name</b>	Prof. Madya Ir. Dr. Tee Kian Sek
<b>Faculty</b>	Fakulti Kejuruteraan Elektrik dan Elektronik
<b>Department</b>	JABATAN KEJURUTERAAN ELEKTRONIK
<b>Email</b>	<a href="mailto:tee@uthm.edu.my">tee@uthm.edu.my</a>
<b>Designation</b>	DS54 - Profesor Madya
	Penyelidik Bersekutu Instrumentation and Sensing Technology (InSeT) Fakulti Kejuruteraan Elektrik dan Elektronik



### Field of Expertise

<b>Field Category (KPT)</b>	APPLIED SCIENCES, ENGINEERING AND TECHNOLOGIES
<b>Field (KPT)</b>	Engineering Science and Technology
<b>Field of Specialization (KPT)</b>	Engineering Science and Technology

### Areas of Research Interest

1. Industrial automation system
2. Mechatronic system in gait monitoring
3. Mechatronic system in rehabilitation
4. Mechatronic system in exoskeleton

### Innovation Field of Interest

1. Industrial automation system in production system design using PLC, industrial sensors and actuators
2. Mechatronic system in gait monitoring especially kinematic and kinetic variables.
3. Mechatronic system to help the patients or the helpers during rehabilitation and physio therapy.
4. Mechatronic system in exoskeleton system especially in human locomotion.

### Academic Qualification

Year	Qualification	Institution
2012	DOKTOR FALSAFAH MEKATRONIK	UNIVERSITY OF LEEDS
1977	SARJANA MUDA KEJURUTERAAN ELEKTRIK	UNIVERSITI TEKNOLOGI MALAYSIA

### Professional Appointments

DS54 - Profesor Madya

### Management Experience

Date	Description
03/09/2018 - 02/09/2021	Penyelidik Bersekutu Fakulti Kejuruteraan Elektrik dan Elektronik , Instrumentation and Sensing Technology (InSeT)
01/01/2017 - 31/12/2017	Ketua Makmal Fakulti Kejuruteraan Elektrik dan Elektronik , Jabatan Kejuruteraan Mekatronik dan Robotik
01/03/2016 - 31/12/2016	Ketua Makmal Fakulti Kejuruteraan Elektrik dan Elektronik , Jabatan Kejuruteraan Mekatronik dan Robotik

01/03/2012 - 28/02/2014

Ketua Makmal

Fakulti Kejuruteraan Elektrik dan Elektronik , Jabatan Kejuruteraan Mekanik dan Robotik

**Professional Societies**

Year	Description	Role	Level
01/01/2017 - 31/12/2017	The Institution of Engineers, Malaysia (IEM)	Ahli	Kebangsaan
01/01/2019 - 31/12/2019	Board of Engineers Malaysia (BEM)	Jurutera Profesional	Kebangsaan
01/01/2020 - 31/12/2020	Board of Engineers Malaysia (BEM)	Jurutera Profesional	Kebangsaan
01/01/2020 - 31/12/2020	Board of Engineers Malaysia (BEM)	Ahli	Kebangsaan
01/01/2018 - 31/12/2018	Board of Engineers Malaysia (BEM)	Jurutera Profesional	Kebangsaan
25/07/2017 - 31/12/2017	Board of Engineers Malaysia (BEM)	Jurutera Profesional	Kebangsaan

**Teaching Experience**

Year	Description	Level
2017	Electronic Engineering Laboratory II [BEE20901], Sesi 20172018 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2017	Creativity and Innovation [BEE31202], Sesi 20162017 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2017	Instrumentation and Measurement [BEH10102], Sesi 20162017 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2017	Mechatronic Mechanism [BEH41103], Sesi 20172018 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2016	Mechatronic Mechanism [BEH41103], Sesi 20162017 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2016	Mechatronic Engineering Practices [BEH20201], Sesi 20152016 Semester 3, Universiti Tun Hussein Onn Malaysia	University
2016	Mechatronic Engineering Practices [BEH20201], Sesi 20162017 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2016	Manufacturing Process [BEH41303], Sesi 20152016 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2016	Electronic Engineering Laboratory II [BEE20901], Sesi 20152016 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2015	Sistem Pembuatan Berautomatik [BND41403], Sesi 20152016 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2015	Electronic Engineering Laboratory II [BEE20901], Sesi 20142015 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2015	Electric and Electronic Technology [BDU10803 & BDM10803], Sesi 20142015 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2015	Manufacturing Process [BEH41303], Sesi 20142015 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2015	Mechatronic Engineering Practices [BEH20201], Sesi 20152016 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2015	Mechatronic Engineering Laboratory [BEH41401], Sesi 20142015 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2015	Instrumentation and Measurement [BEH10102], Sesi 20152016 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2014	Automation System [MEM10303] - PESISIR, Sesi 20132014 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2014	Electronic Engineering Laboratory II [BEE20901], Sesi 20132014 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2014	Industrial Electronic [BND30603], Sesi 20142015 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2014	Industrial Automation System [BEH20302], Sesi 20132014 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2014	Industrial Automation System [BEH20302], Sesi 20142015 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2014	Integrated Design Project I [BEE22002], Sesi 20142015 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2014	Automation System [MEM10303], Sesi 20132014 Semester 2, Universiti Tun Hussein Onn Malaysia, 2014	University
2014	Integrated Design Project I [BEE22002], Sesi 20132014 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2014	Mechatronic Engineering Laboratory [BEH414013], Sesi 20142015 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2014	Mechatronic Engineering Practices [BEH20201], Sesi 20142015 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2013	Mechatronic Engineering Laboratory IV [BEH30901], Sesi 20122013 Semester 2, Universiti Tun Hussein Onn Malaysia	University

2013	Manufacturing Process [BEH41303], Sesi 20132014 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2013	Power Engineering Laboratory I [BEF34701], Sesi 20132014 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2013	Occupational Safety and Health [BEE12202], Sesi 20132014 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2013	Automation System [MEM10303], PESISIR, Sesi 20122013 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2013	Instrumentation and Control Systems [BEH22003], Sesi 20122013 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2013	Advanced Digital Control [MEM10203], PESISIR, Sesi 20122013 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2013	Automation System [MEM10303], PESISIR, Sesi 20132014 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2013	Instrumentation and Measurement [BEH20403], Sesi 20122013 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2012	Makmal Kejuruteraan Elektronik II [BEE20901], Sesi 20112012 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2012	Digital Control [BEX43903], Sesi 20112012 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2012	Keusahawanan [BPK20802], Sesi 20122013 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2012	Electrical Control Systems [BEF33003], Sesi 20122013 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2012	Advanced Digital Control [MEM10203], PESISIR/PERDANA, Sesi 20122013 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2012	Automation System [MEM10303], PESISIR, Sesi 20122013 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2012	Manufacturing Process [BEH41303], Sesi 20112012 Semester 3, Universiti Tun Hussein Onn Malaysia	University
2012	Teknologi Elektrik [BEE10403], Sesi 20112012 Semester 2, Universiti Tun Hussein Onn Malaysia	University

## Research Grants And Contracts

Code	Title	Designation	End Date
K343	DEVELOPMENT OF GSM-IOT-CLOUD BASED SENSORS HUB FOR SURFACE WATER POLLUTION MONITORING AND BIG DATA ANALYTICS	Ahli	31/12/2022
K106	Investigation of the bioprinting parameters in influencing the 3D printing of alginate/liquid crystal bioink laden with microspheroids for producing printable structures	Ahli	30/09/2022
K149	A New Framework for Dorsal Hand Vein Pattern Recognition Using Feature Extraction and Classification Techniques	Ahli	30/05/2022
K039	Development of Portable Nondestructive Brix Measurement Prototype using Near Infrared Light and Artificial Intelligence for intact Pineapples	Ahli	30/09/2021
K232	SENA - IMPROVEMENT OF SENA TRAFFIC CONTROLLER CPU DEVICE MANAGER FIRMWARE	Ahli	30/09/2021
H479	Program : Smart Farming Management. Projek : Internet Of Things-Based Agricultural Management Services Using Drone.	Ahli	30/06/2021
K233	SENA- DEVELOPMENT OF A WIRELESS MAGNETOMETER TO REPLACE COIL LOOP FOR VEHICLE DETECTION	Ahli	30/06/2021
H413	Brain Computer Interface Based Robotic Arm Control	Ahli	31/12/2020
A164	Smart Size Sorting System (S4) for Machine Learning and Big Data Analytics	Ahli	22/12/2020
H463	Trial run project of Internet of Thing (IoT) - Lecture Room Management System for UTHM Main Campus	Ahli	01/11/2019
U798	Ambulatory retina inspection and instrument	Ketua	31/08/2019
U567	Characterising The Biophysical Properties Of 3D Oral Cancer Cells & Cytochemical Treatment In A Microfluidic Dilution Mixer	Ahli	31/05/2018
U326	Development of A Motorized Device for Producing 3D Cells in Microbeads by Flicking Method	Ahli	31/07/2016
U328	Development of An Aerosol Device of Generating 3D Cells in Microencapsulation	Ahli	31/07/2016
U329	Characterizing The Biophysical Properties of Microtissues for Oral Cancer Epithelial Cells in A Microfluidic Device	Ahli	31/07/2016
U327	Microcapsules Generator for Encapsulation of Keratinocytes in Calcium Alginate	Ahli	30/04/2016
R027	Development Of A Novel Microfluidic Device And Mechatronic Control System For Harvesting Micro -Tissues	Ketua	31/08/2015
1141	An Efficient Auto Storage And Auto Retrieval System Within A Computer Integrated Manufacturing	Ketua	28/02/2014

## Publications

### Book Chapters

Wan Muhammad Naasehuddin Wan Baharudin, Nur Farra Fazliana Jasmani, Nurnajihah Yusof, Mohd Jahaya Kesot, Ruzairi Abdul Rahim, Mohd Hafis Izran Ishak, Tee Kian Sek, Ahmad Ridhwan Wahap

(2020) Cockle Shell As Partial Filler For High Early Strength Concrete, Sensor & Instrumentation System Series 14, UTHM , 13, ISBN:9789672289255

**Siti Hawa Ruslan, Nur Anida Jumadi, Marlia Morsin, Muhammad Hazli Mazlan, Ida Laila Ahmad, Wasuzarina Mat Jubadi, Chin Fhong Soon, Nurfarina Zainal, Kian Sek Tee, Nurmiza Othman, Syarfa' Zahirah Sapuan, Farhanahani Mahmud, Zarina Tukiran, Afandi Ahmad, Hasliza Hassan**  
(2020) Low Power Cmos Image Sensor For Face Recognition, Sleep Apnea Detection With Sms Notification, Development Of Smart Sajadah System, Biomechanical Analysis Of Posterior Lumbar Interbody Cages, Influences Of Ingan Quantum Well Thickness On The Internal Quantum Efficiency For Gan Led...And Etc., Advanced Computer Modelling And Electronics Engineering Series 1, UTHM , 1, ISBN:9789672389927

**Chin Fhong Soon, Wai Yean Leong, Kian Sek Tee, Mohd Khairul Ahmad and Nafarizal Nayan**  
(2019) A Strategy For Regeneration Of Three-Dimensional (3d) Microtissues In Microcapsules: Aerosol Atomization Technique , Tissue Engineering Strategies For Organ Regeneration, CRC PRESS , 285, ISBN:9781138391543

**Najihah Masaruddin, Ida Laila Ahmad, Ruzairi Abdul Rahim, Dirman Hanafi, Tee Kian Sek, Herman Wahid, Leow Pei Ling**  
(2019) Colorimetric Device For Egg Yolk Type Classification, Sensor And Instrumentation Series 12, UTHM , 23, ISBN:9789672306153

**Elmy Johana Mohamad, Siti Khadijah Narudin, Nur Nadia Nasir, Ruzairi Abdul Rahim, Omar Mohd Faizan, Zulkifli Mansor, Tee Kian Sek, Dirman Hanafi, Fadzli Abd Shaib**  
(2019) Development Of Portable Magnetic Sensor For Steel Pipe Crack Damage And Defect Inspection, Sensor & Instrumentation System Series 12, UTHM , 15, ISBN:9789672306153

**Chin Fhong Soon, Sargunan A/L Sundra, Nurfarina Zainal, Kian Sek Tee, Mohd Khairul Ahmad, Wan Ibtisam Wan Omar, Nafarizal Nayan**  
(2019) Micromixers And Applications, Current Advances In Microdevices And Nanotechnology (Series 1), UTHM , 79, ISBN:9789672306252

**SITI ZALEHA ABDUL HAMID, NUR FARAH HANIS DAUD, 75 V HERLINA ABDUL RAHIM, RUZAIRI ABDUL RAHIM, ABU UBAlDAH SHAMSUDDIN, KIAN SEK TEE, ARIFFUDDIN BIN JORET**  
(2018) Acoustic Metamaterial For Image Detection, Sensor & Instrumentation System, Series 9, UTHM , 75, ISBN:9789672183273

**Chin Fhong Soon, Tiong Hin Ong, Mohamad Yusof Othman, Zhi Wei Sia, Hui Hwang Goh, Kian Sek Tee**  
(2018) Chapter 9: Industry Design Of An Active Aging Tester For Led Luminaire With Pir Sensor, Sensor & Instrumentation System Series 6, UTHM , 159, ISBN:9789672110576

**Herman Wahid, Azezan Md. Saad, Bong Yu Liang, Azmaliah Muhd Zain, Amirul Asraf Misr un, Elmy Johana Mohamad, Kian Sek Tee, Abu Ubaidah Shamsuddin, Ida Laila bte Ahmad**  
(2018) Design Of An Electronic Sports Vending Machine (E-Svm), Sensor & Instrumentation System, Series 8, UTHM , 46, ISBN:9789672183273

**Amri Zainal, Hassanen Taleb Jawad, Suzanna Ridzuan Aw, Hediye Karimi Faiz Abadi, Ruzairi Abdul Rahim, Tee Kian Sek, Dirman Hanafi Burhanuddin, Shafishuhaza Sahlan, Leow Pei Ling**  
(2018) Measure Temperature & Humidity For 84 Vegetables, Sensor & Instrumentation System Series 11, UTHM , 84, ISBN:9789672216353

**Amri Zainal, Hassanen Taleb Jawad, Suzanna Ridzuan Aw, Hediye Karimi Faiz Abadi, Ruzairi Abdul Rahim, Tee Kian Sek, Dirman Hanafi Burhannuddin, Shafishuhaza Sahlan, Leow Pei Ling**  
(2018) Measure Temperature & Humidity For Vegetables, Sensor & Instrumentation System, Series 11, UTHM , 84, ISBN:9789672216353

**Kian Sek Tee, Chin Fhong Soon, Mohammed Awad, Abbas Dehghani, David Moser, Saeed Zehedi**  
(2017) Ambulatory System For Gait Monitoring And Assessment, Sensor & Instrumentation System-Series 3, UTHM , 95, ISBN:978-967-2110-27-9

**Chin Fhong Soon, rHiung Yin Yap, Mohd Khairul Ahmad, Kian Sek Tee, Siew Hwa Gan**  
(2017) Chapter 63: Development Of A Microfluidic Device System Using Adhesive Vinyl Template To Produce Calcium Alginate Microbeads For Microencapsulation Of Cells, Recent Global Research And Education: Technological Challenges. Advances In Intelligent Systems And Computing, Springer , 477, ISBN:978-3-319-46489-3

## Journal

**Xien Yin Yap, Kim Seng Chia\* , and Kian Sek Tee**  
(2021) A Portable Gas Pressure Control And Data Acquisition System Using Regression Models, INTERNATIONAL JOURNAL ON ELECTRICAL ENGINEERING AND INFORMATICS, THE SCHOOL OF ELECTRICAL ENGINEERING AND INFORMATICS, INSTITUT TEKNOLOGI BANDUNG, INDONESIA. , 3, 242, ISSN:20856830

**Gim Pao Lim, Chin Fhong Soon, Nyuk Ling Ma, Marlia Morsin, Nafarizal Nayan, Mohd Khairul Ahmad, Kian Sek Tee**  
(2021) Cytotoxicity Of Mxene-Based Nanomaterials For Biomedical Applications: A Mini Review, ENVIRONMENTAL RESEARCH, ELSEVIER BV , 10, 111592, ISSN:00139351

**Chin Fhong Soon, Siti Hajar Aminah Ali, See Khee Ye, Munzilah Md Rohani, Kian Sek Tee, Marlia Morsin, Nafarizal Nayan, Chiok Chuan Lim**  
(2021) Investigation Of Wireless Magnetometer In Sensing Magnetic Field Changes At Different Car Direction And Speed, BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATICS, INSTITUTE OF ADVANCED ENGINEERING AND SCIENCE , 4, 668, ISSN:20893191

**Adibah Zamhuri, Gim Pao Lim, Nyuk Ling Ma, Kian Sek Tee & Chin Fhong Soon**  
(2021) Mxene In The Lens Of Biomedical Engineering: Synthesis, Applications And Future Outlook, BIOMEDICAL ENGINEERING ONLINE, SPRINGER NATURE , 4, 1, ISSN:1475925X

**Gim Pao Lim, Chin Fhong Soon, Agnieszka Maria Jastrz?bska, Nyuk Ling Ma, Anita Rozmys?owska Wojciechowska, Aleksandra Szuplewska, Wan Ibtisam Wan Omar, Marlia Morsin, Nafarizal Nayan, Kian Sek Tee**  
(2021) Synthesis, Characterization And Biophysical Evaluation Of The 2d Ti2ctx Mxene Using 3d Spheroid-Type Cultures, CERAMICS INTERNATIONAL, ELSEVIER BV , 8, 22567, ISSN:02728842

**Kian Sek Tee, Eugene Low, Wellesly Tony, Safinaz Binti Mohd Khialdin, Jaysuman Puspanathan, Chin Fhong Soon, Toong Hai Sam**  
(2020) A Posture Monitoring System With Imu For Ophthalmologist While Operating The Slit Lamp, INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, INSTITUTE OF ADVANCED ENGINEERING AND SCIENCE , 6, 1262, ISSN:25024752

**Sheril Amira Othman, Chin Fhong Soon, Nyuk Ling Ma, Kian Sek Tee, Gim Pao Lim, Marlia Morsin, Mohd Khairul Ahmad, Alyaa Idrees Abdulmaged, Sok Ching Cheong**  
(2020) Alginate-Gelatin Bioink For Bioprinting Of Hela Spheroids In Alginate-Gelatin Hexagon Shaped Scaffolds, POLYMER BULLETIN , SPRINGER , 10, 1, ISSN:01700839

**Chin Fhong Soon, Boon Huei Teng, Kian Sek Tee, Siat Ling Jong, Mohd Khairul Ahmad, Marlia Morsin, Tiong Hin Ong**  
(2020) Bluetooth Embedded Digital Ammeter With Android App Data Logging, INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE INSTITUTE OF ADVANCED ENGINEERING AND SCIENCE , 6, 1400, ISSN:25024752

**Chin Fhong Soon, Mohammad Faez Ramilan, Dirman Hanafi, Wan Nurshazwani Wan Zakaria, Safinaz Mohd Khialdin, Hazlita Isa, Kian Sek Tee**  
(2020) Development Of A 3d Bio-Printer Using Corey Mechanism And Syringe-Based Extrusion, *INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, INSTITUTE OF ADVANCED ENGINEERING AND SCIENCE* , 6, 1180, ISSN:25024752

**Chin Fhong Soon, Mohana Phriya, Elfa Rizan Rizon, Intan Sue Liana Abdul Hamid, Naznin Sultana, Marlia Morsin, Kian Sek Tee, Gim Pao Lim, Mohd Khairul Ahmad, Nafarizal Nayan**  
(2020) Effects Of Atmospheric Pressure Plasma Jet Treatment Duration To The Viability Of Hela Cells And Microtissues, *INTERNATIONAL JOURNAL OF NANO-ELECTRONICS AND MATERIALS, UTHM* , 7, 473, ISSN:19855761

**Gim Pao Lim, Chin Fhong Soon, Sheril Amira Othman, Naznin Sultana, Mohd Khairul Ahmad, Nafarizal Nayan, Kian Sek Tee**  
(2020) Generation Of Hela Spheroids In Ca-Alginate-Peg Microbeads Using Flicking Technique As An Improved Three-Dimensional Cell Culture System, *COLLOIDS AND SURFACES A: PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, ELSEVIER BV* , 8, 124885, ISSN:09277757

**Alyaa Idrees Abdulmaged, Chin Fhong Soon, Balkis A. Talip, Sheril Amira Othman, Gim Pao Lim, Kian Sek Tee**  
(2020) Investigation On The Printability Of Bioink Based On Alginate-Gelatin Hydrogel And Liquid Crystals, *BULLETIN OF ELECTRICAL ENGINEERING AND INFORMATICS , INSTITUTE OF ADVANCED ENGINEERING AND SCIENCE* , 8, 1718, ISSN:23029285

**Elmy Johana Mohamad, Tee Kian Sek, Tharvind Raj Sugumar**  
(2020) Smart Laundry Management Tool, *TECHNOLOGY REPORTS OF KANSAI UNIVERSITY, TECHNOLOGY REPORTS OF KANSAI UNIVERSITY* , 6, 1, ISSN:04532198

**Gim Pao Lim, Chin Fhong Soon, Marlia Morsin, Mohd Khairul Ahmad, Nafarizal Nayan, Kian Sek Tee**  
(2020) Synthesis, Characterization And Antifungal Property Of Ti3C2Tx Mxene Nanosheets, *CERAMICS INTERNATIONAL, ELSEVIER BV* , 8, 20306, ISSN:02728842

**CHIN FHONG SOON, NAFARIZAL NAYAN, NAZNIN SULTANA, MARLIA MORSIN, GIM PAO LIM, NYUK LING MA, ELFA RIZAN RIZON and KIAN SEK TEE**  
(2020) The Effects Of Dimmer Controlled Atmospheric Pressure Plasma Jet To The Biophysical Structures Of Hela Cells, *MALAYSIA APPLIED BIOLOGY , MALAYSIAN SOCIETY APPLIED BIOLOGY* , 12, 9, ISSN:01268643

**Chin Fhong Soon, Sargunan A/L Sundra, Nurfarina Zainal, Farshid Sefat, Mohd Khairul Ahmad, Nafarizal Nayan, Kian Sek Tee, and Sok Ching Cheong**  
(2019) Development Of A Microdilution Device With One-Step Dilution Of Cytochalasin-B For Treating Orl-48 Cancer Microtissues, *BIOTECHNOLOGY AND BIOPROCESS ENGINEERING 24: 761-772 (2019), Springer* , 6, 761, ISSN:12268372

**Chin Fhong Soon, Sargunan A/L Sundra, Nurfarina Zainal, Farshid Sefat, Mohd Khairul Ahmad, Nafarizal Nayan, Kian Sek Tee & Sok Ching Cheong**  
(2019) Development Of A Microdilution Device With One-Step Dilution Of Cytochalasin-B For Treating Orl-48 Cancer Microtissues, *BIOTECHNOLOGY AND BIOPROCESS ENGINEERING, SPRINGER* , 6, 761, ISSN:12268372

**Rosnah Mohd Zain, Chin Fhong Soon, Nadhia Mohd Yusof, Elfa Rizan Rizon, Kian Sek Tee, Mohd Khairul Ahmad, Nafarizal Nayan**  
(2019) Dimmer And Neon Transformer As A Power Controllable Generator For Atmospheric Pressure Plasma Jet, *INTERNATIONAL JOURNAL OF POWER ELECTRONICS AND DRIVE SYSTEM (JPEDS), iaes* , 6, 51, ISSN:20888694

**Yee Mei Heong, Kong Hie Ping, Jailani MD Yunus, Widad Othman, Tee Tze Kieng, Mimi Mohaffyza Mohamad and Kok Boon Ching**  
(2019) The Effectiveness Of Integration Of Learning Strategies And High Order Thinking Skills For Generating Idea Among Technical Students, *JOURNAL OF TECHNICAL EDUCATION AND TRAINING (JTET), UTHM* , 10, 32, ISSN:22298932

**Chin Fhong Soon, Kian Sek Tee, Soon Chuan Wong, Nafarizal Nayan, Sargunan Sundra, Mohd Khairul Ahmad, Farshid Sefat, Naznin Sultana, Mansour Youseffi**  
(2018) Comparison Of Biophysical Properties Characterized For Microtissues Cultured Using Microencapsulation And Liquid Crystal Based 3d Cell Culture Techniques, *CYTOTECHNOLOGY, Springer Netherlands* , 11, 13, ISSN:09209069

**Dirman Hanafi, Kan Sek Tee, Elmy Johana, Hisyam Aibdul Rahman, Mohd Fua?ad Rahmat, Herman Wahid, Rozaimi Ghazali**  
(2018) Neuro Model For Passive Suspension Of A Light Car, *THE INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING (IJIE), UTHM* , 8, 73, ISSN:2229838X

**Adrian Soon Bee Tiong, Kian Sek Tee, Mohammed Ibrahim M. H. Awad, Chin Fhong Soon**  
(2018) Oncoming Vehicle Detection With Variable-Focus Liquid Lens, *INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING, VOL. 10 NO. 8 (2018) P. , UTHM* , 2, 127, ISSN:2229838X

**Soon Chuan Wong, Chin Fhong Soon, Kian Sek Tee, Wai Yean Leong, Mohd Khairul Ahmad, Sok Ching Cheong**  
(2017) 3d Oral Squamous Cell Carcinoma Microtissues Grown In Calcium Alginate Microbeads, *ANNUAL RESEARCH & REVIEW IN BIOLOGY, ScienceDomain* , 6, 1, ISSN:2347565X

**Wai Yean Leong, Chin Fhong Soon, Soon Chuan Wong, Kian Sek Tee, Sok Ching Cheong, Siew Hua Gan, Mansour Youseffi**  
(2017) In Vitro Growth Of Human Keratinocytes And Oral Cancer Cells Into Microtissues: An Aerosol-Based Microencapsulation Technique, *BIOENGINEERING, Multidisciplinary Digital Publishing Institute* , 5, 43, ISSN:23065354

**Ayob M.A., Zakaria W.N.W., Jalani J., Tomari M.R.M., Suberi A.A.M., Sek T.K., Fuad N.F.N.**  
(2017) Intelligent Approach To Force/Position Control Of Ultrasound-Guided Breast Biopsy Robotic System, *JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING, UNIVERSITI TEKNIKAL MALAYSIA MELAKA* , 73, ISSN:21801843

**Yasmin Abdul Wahab, Ruzairi Abdul Rahim, Mohd Hafiz Fazalul Rahiman, Suzzana Ridzuan Aw, Fazlul Rahman Mohd Yunus, Jaysuman Puspanathan , Nor Muzakkir Nor Ayob, Leow Pei Ling, Herlina Abdul Rahim, Tee Kian Sek**  
(2017) Inverse Problem: Comparison Between Linear Back-Projection Algorithm And Filtered Back-Projection Algorithm In Soft-Field Tomography, *INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING : SPECIAL ISSUE ON ELECTRICAL ELECTRONIC ENGINEERING, UTHM* , 12, 32, ISSN:2229-838X

**Soon C.F., Thong K.T., Tee K.S., Ismail A.B., Denyer M., Ahmad M.K., Kong Y.H., Vyomesh P., Cheong S.C.**  
(2016) A Scaffoldless Technique For Self-Generation Of Three-Dimensional Keratinospheroids On Liquid Crystal Surfaces, *BIOTECHNIC AND HISTOCHEMISTRY, Taylor and Francis* , 295, ISSN:10520295

**Kian Sek Tee**  
(2016) Customizing A High Flow Rate Syringe Pump For Injection Of Fluid To A Microfluidic Device Based On Polyimide Film, *APRN JOURNAL OF ENGINEERING AND APPLIED SCIENCES, APRN* , 3, 3849, ISSN:1819-6608

**Hiung Yin Yap, Chin Fhong Soon, Kian Sek Tee, Nurfarina Zainal, Mohd Khairul Ahmad**

(2016) Customizing A High Flow Rate Syringe Pump For Injection Of Fluid To A Microfluidic Device Based On Polyimide Film, ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES , ARPN , 3, 3849, ISSN:1819-6608

**Soon Chuan Wong, Chin Fhong Soon, Wai Yean Leong, Kian Sek Tee**

(2016) Development Of A Flicking System For Producing Calcium Alginate Microbeads, JURNAL TEKNOLOGI, Universiti Teknologi Malaysia , 6, 103, ISSN:01279696

**Nurul Hamidah Md Sai'aan, Chin Fhong Soon, Kian Sek Tee**

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**RO27 MINISTYR OF EDUCATION**

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**DR TEE KIAN SEK**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong dan Dr. Tee Kian Sek**

(2018) Cnc Engraving Text On Acrylic + Inkscape + Grbl Control (Part 2) , Youtube.com , ISBN:-

**Dr. Soon Chin Fhong dan Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr Soon Chin Fhong dan Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Dr. Soon Chin Fhong and Dr. Tee Kian Sek**

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**Prosiding / Seminar****Elmy Johana Mohamad, Tee Kian Sek, Chew Chang Choon, Omar Mohd Faizan, Ruzairi Abd Rahim and Mimi Mohaffyza Mohamad**

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**Chin Fhong Soon, Teng Boon Huei, Hui Hwang Goh, Kian Sek Tee, Mohd Khairul Ahmad, Tiong Hin Ong, Naszirul A. Rahman**

(2018) Development Of A Iot Based Digital Ammeter With Bluetooth In Half-Duplex Communication, UTEM , 65, ISBN:9789672145585

**Kian Sek Tee, Eugene Low, Hashim Saim, Wan Nurshazwani Wan Zakaria, Chin Fhong Soon**

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**NURUL HAMIZAH MD SAIAN, CHIN FHONG SOON, KIAN SEK TEE, MANSOUR YOUSEFFI, SAYED ALI KHAGANI**

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**Sargunan Sundra, Chin Fhong Soon, Nurfarina Zainal, Kian Sek Tee, Siew Hua Gan**

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**Alvin Jacob, Wan Nurshazwani Wan Zakaria, Mohd Razali Bin Md Tomari, Tee Kian Sek, and Anis Azwani Muhd Suberi**

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**Chin Fhong Soon, Kok Tung Thong, Kian Sek Tee, Nafarizal Nayan, Mohd Khairul Ahmad, Anis Nurashikin Nordin**

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**Chin Fhong Soon, Yap Hiung Yin, Kian Sek Tee, Mohd Khairul Ahmad, Mohd Zainizan Sahdan, Nafarizal Nayan**

(2016) Influence Of Outlet Channel Width To The Flow Velocity And Pressure Of A Flow Focusing Microfluidic Device, IOPSCIENCE , 012086(1) , ISBN:1757899X

**Consultancies**

Year	Description	Level
2017	Advisor for The Institution of Engineers Malaysia-Student Section (IEMSS-UTHM), UTHM, 2017	University
2016	Mentor to En. Reza Ezuan Bin Samin, Program Mentor Mentee FKKEE, UTHM, 2016	University
2016	Academia Industry Ambassador for UTHM-Industry and Community Relations, UTHM, 15 Nov. 2016 - 14 Nov. 2017	University
2015	Principle researcher for the collaboration between FKKEE-UTHM and the Department of Ophthalmology, HUKM, 2015	National
2015	Pakar rujuk untuk kluster Pembelajaran Berasaskan Masalah (PBL), Pusat Pembangunan dan Latihan Akademik, UTHM, 2015	University
2014	Lecturer and module author for K-UTECH EDU Sdn. Bhd., 20-22 April 2014	Private
2014	Perunding Teknikal untuk BP Plastics Sdn. Bhd., 2014	Private
2013	Research member for Advanced Mechatronic Research Group (ADMIRE), 2013	University
2012	Mentor kepada staf sedang cuti belajar, FKKEE, Pn Rafidah binti Ngadengon @ Ngadungon, En. Mohd Razali bin Tomari, En. Mohamed Najib bin Ribuan, 2012	University

2012 Mentor Penyelidikan kepada JER-FKKEE, Tn. Hj. Mohamad Fauzi bin Zakaria, En. Rozaimi bin Ghazali, Pn. Farhaana binti Yakop, En. Mohd Fadzli bin Abd Shaib, 2012 University

## Supervision

Year	Description	Role
2017	Supervisor for Mohammad Faiz Bin Zakariya, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2017	Supervisor
2017	Supervisor for E Chun Zhi, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2017	Supervisor
2017	Supervisor for Yogindra Syam Hari S/O Javahar, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2017	Supervisor
2017	Supervisor for Mohamad Affendi, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2017	Supervisor
2017	Supervisor for Muhammad Hafizuddin Bin Mazlan, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2017	Supervisor
2016	Supervisor for Nur Hidayah Binti Mohamad Shauki, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2016	Supervisor
2016	Supervisor for Klaijoothi S/O Mogan, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2016	Supervisor
2016	Supervisor for Ahmad Nusr Bin Mohamed@Naba, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2016	Supervisor
2016	Supervisor for Mohd Shazwan Anizar Bin Shamsul Anuar, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2016	Supervisor
2016	Supervisor for Eugene Low, PhD, Universiti Tun Hussein Onn Malaysia, 2016	Supervisor
2015	Supervisor for Norshuhada Binti Abdul Radzuan, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2015	Supervisor
2015	Supervisor for Kang Shownen, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2015	Supervisor
2015	Supervisor for Siti Ramzila Binti Buang, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2015	Supervisor
2015	Supervisor for Lim Shuang Wei, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2015	Supervisor
2015	Supervisor for Khor Cheng Lee, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2015	Supervisor
2015	Supervisor for Azrin Bin Mohd Taffy Gan, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2015	Supervisor
2014	Supervisor for Adila Bte Abd Kadir, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2014	Supervisor
2014	Supervisor for Sheena Punai Anak Philimon, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2014	Supervisor
2014	Supervisor for Firdaus Bin Ali, Master (Coursework), Universiti Tun Hussein Onn Malaysia, 2014	Supervisor
2014	Supervisor for Mohd Nazreen Bin Hasan, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2014	Supervisor
2014	Supervisor for Muhammad Hadziq Heseiny Bin Baderol Huseiny, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2014	Supervisor
2014	Supervisor for Abdul Rahman Bin Md Isa, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2014	Supervisor
2013	Supervisor for Adrian Soon Bee Tiong, PhD, Universiti Tun Hussein Onn Malaysia, 2013	Supervisor
2013	Supervisor for Mohd Firdaus Bin Mohd Mokhtar, Master (Coursework), Universiti Tun Hussein Onn Malaysia, 2013	Supervisor
2013	Supervisor for Norkhaniza Binti Shamsudin, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2013	Supervisor
2013	Supervisor for Nurmila Binti Yusof, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2013	Supervisor
2013	Supervisor for Wan Mohd Haniff Bin Wan Hamzah, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2013	Supervisor
2013	Supervisor for Afiqa Hairennas Binti Zulkifli, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2013	Supervisor
2012	Supervisor for Mohammad Akmal Bin Zainal Abidin, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Zanariah Binti Mohd Amir, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Shamsulanuar Bin Abd Aziz, Master (Coursework), Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Sadeq Ali Qasem Mohammed, Master (Research), Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Johanis Bin Mohd Jamil, Master (Coursework), Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Ong Sim Lin, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Abdul Hafiz Bin Mohd Aluwi, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Nurlida Binti Sa'udah @ Suhadak, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Adrian Soon Bee Tiong, Master (Coursework), Universiti Tun Hussein Onn Malaysia, 2012	Supervisor
2012	Supervisor for Teh Soon Huat, Sarjana Muda, Universiti Tun Hussein Onn Malaysia, 2012	Supervisor

## Courses & Training



Year	Description Organiser / Venue	Date
2021	KURSUS PROBLEM BASED LEARNING (PBL) & PROJECT ORIENTED PROBLEM BASED LEARNING (POPBL) FKEE LAIN-LAIN / -	01/04/2021
2021	JERAYAWARA KRITERIA BAHARU PENILAIAN PRESTASI TAHUNAN & KENAIKAN PANGKAT STAF AKADEMIK UTHM BERSAMA FAKULTI KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK UTHM / GOOGLE MEET	07/01/2021
2020	KURSUS E-CLASS (CLASS ATTENDANCE SYSTEM) UTHM / ZOOM PLATFORM	08/10/2020
2020	SIDANG MEJA BULAT FKEE 2020 UTHM / -	20/09/2020
2020	ANDROIDS APPS DEVELOPMENT FOR NON PROGRAMMER ( APP INVENTOR) PEJABAT PENDAFTAR,UTHM / BILIK PENCARIAN MAKLUMAT, PTTA	17/08/2020 - 18/08/2020
2020	VIDEO EDITING USING VSDC UTHM / -	08/07/2020
2020	INTERMEDIATE MICROSOFT EXCEL SIRI 2 PEJABAT PENDAFTAR,UTHM / GOOGLE MEET @ GOOGLE CLASSROOM	21/06/2020
2020	SPICE UP YOUR ONLINE SESSION WITH FLIPGRID UTHM / -	09/06/2020
2020	HOW TO GET PUBLISHED IN A HIGH-IMPACT JOURNAL ? SERIES 4 UTHM / UTHM	19/05/2020
2020	SPECIAL TALK : COVID19 - EMBRACING A NEW NORM: IMPACT, MEASURES & WAY FORWARD UTHM / GOOGLE MEET	12/05/2020
2020	SESI 2 - SESI PERTEMUAN TIMBALAN NAIB CANCELOR (PENYELIDIKAN DAN INOVASI) BERSAMA STAF AKADEMIK FKEE UTHM / -	28/04/2020
2020	BENGKEL ' INTERNATIONAL WORKSHOP ON 4TH INDUSTRIAL REVOLUTION AND TVET INNOVATION UTHM / BILIK LESTARI 1, PTTA	12/02/2020 - 13/02/2020
2020	TAKLIMAT PENASIHATAN AKADEMIK DAN KERJAYA UTHM / BILIK SEMINAR QB, FKEE	11/02/2020
2020	KURSUS PROBLEM BASED LEARNING (PBL) & PROJECT ORIENTED PROBLEM BASED LEARNING (POPBL) SIRI 2 : ADVANCED LEVEL UTHM / BILIK KOMPUTER, MAKMAL PENDAWAIAAN ELEKTRIK	10/02/2020
2020	KURSUS PROBLEM BASED LEARNING (PBL) & PROJECT ORIENTED PROBLEM BASED LEARNING (POPBL) SIRI 1 : BASIC LEVEL UTHM / BILIK SEMINAR 2, BLOK G1	03/02/2020
2020	KURSUS MIGRASI ZIMBRA KE GMAIL UTHM (SIRI 1) UTHM / MAKMAL KOMPUTER PTM 1	08/01/2020
2019	EXPERT TALK 'SMART CITY' UTHM / DEWAN 1, DTMI	22/08/2019
2019	TRAINING FOR TRAINERS (TOT) FOR INDUSTRIAL ROBOTIC LABORATORY (MRI) UTHM / UTHM	06/08/2019
2019	MESYUARAT FAKULTI KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK UTHM / BILIK SEMINAR, BLOK QB FKEE	07/07/2019
2019	THE INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONIC ENGINEERING 2019 (ICON3E2019) FKEE,UTHM / EVERLY HOTEL, PUTRAJAYA, MALAYSIA	24/06/2019 - 25/06/2019
2019	INTERGRATED DESIGN PROJECT (IDP) SHOWCASE 2019 SERIES 1 UTHM / UTHM	16/05/2019
2019	BENGKEL PENYEDIAAN JADUAL WAKTU T-PLUS CLASS KAMPUS INDUK FASA 3 UTHM / UTHM	29/04/2019
2019	PERTEMUAN DEKAN BERSAMA STAF FKEE UTHM / BILIK SEMINAR BLOK QB, FKEE.	25/04/2019
2019	BENGKEL PENYEDIAAN JADUAL WAKTU T-PLUS CLASS KAMPUS INDUK UTHM / UTHM	09/04/2019
2019	JERAYAWARA DAN PERKONGSIAN ILMU TNCPDI DI FKEE UTHM / UTHM	18/02/2019
2019	BENGKEL SKT JABATAN KEJURUTERAAN MEKATRONIK DAN ROBOTIK UTHM / UTHM	13/02/2019

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2019	BENGKEL PENYEDIAAN RPP VERSI COPPA V3 UTHM / UTHM	13/02/2019
2019	BENGKEL PENYEDIAAN KERTAS KERJA DAN PEMURNIAAN BORANG PENILAIAN IDP1 & IDP2 UTHM / UTHM	12/02/2019
2019	CERAMAH SETTING UP A SPIN OFF COMPANY DAN PERMOHONAN GRAN ANTARABANGSA UTHM / UTHM	11/02/2019
2019	MAJLIS PELANCARAN INNOVATION LABS UTHM UTHM / FKEE UTHM	29/01/2019
2019	PROGRAM PERKONGSIAN PENGALAMAN PENYEDIAAN GERAN FRGS & PRGS ANJURAN FKEE UTHM / FKEE UTHM	24/01/2019
2019	PERTEMUAN STAF AKADEMIK BERSAMA DEKAN FKEE UTHM / BILIK SEMINAR 1 FKEE	23/01/2019

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