

## ASSOCIATE PROFESSOR DR. AZIANTI ISMAIL

### SENIOR LECTURER

School of Mechanical Engineering,  
College of Engineering, Universiti Teknologi MARA,  
40450 Shah Alam, Selangor  
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[UiTM Expert](#)



[Azianti YouTube Channel](#)



[Azianti ePortfolio](#)

## RESEARCH INTEREST

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Lean Production System, TQM, QFD

Lean Healthcare

Engineering Education – Outcome Based Education, Rasch Measurement Model

Reliability Engineering – Accelerated Life Test (ALT), Reliability Improvement, Design for Reliability

Manufacturing Process Improvement – Design of Experiments (DOE)

Operation Management

## EDUCATION

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DAEGU UNIVERSITY, SOUTH KOREA

**PhD in Reliability Engineering (2014)**

*Framework of Effective Reliability Improvement Strategy in Product Development Process*

UNIVERSITY OF MANCHESTER, UK

**M.Sc. Advanced Manufacturing Technology and Systems Management (2005)**

RENSSELAER POLYTECHNIC INSTITUTE, USA

**B.Sc. Industrial and Management Engineering (1998)**

## CERTIFICATION

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Certified Trainer NCS-004:2017, Department of Skills Development (DSD) (Cert. no. 20523)

Certified Lean Production System (LPS) Process Operation [TP-327-3:2014] SKM – Level 3 (Cert. no. S100056574)

Certified Professional Learning Facilitator (PLF)

## PROFESSIONAL AFFILIATIONS

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Member - Board of Engineers Malaysia (30462A)  
Member - Society of Engineering Education Malaysia (P0029)  
Member – Institution of Engineers Malaysia (105629)  
Member - Korean Society of Reliability (KORAS)  
Malaysia Japan Automotive Industries Cooperation (MAJAICO) Lean Production System Team (2006-2010)

## EXPERIENCE

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### WORKING EXPERIENCE

2015 Senior Lecturer, Faculty of Mechanical Engineering, UiTM Johor  
2006 Senior Lecturer, Faculty of Mechanical Engineering, UiTM, Shah Alam  
2004 Retail Advisor, Textile Fill Team, Marks and Spencer PLC, Manchester, England  
1998 Associate Engineer, Production Technology Department, ExxonMobil Exploration and Production Malaysia Inc., Kuala Lumpur

## RESEARCH

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### ***Digital Lean Part Supply***

Strategic Research Partnership (2021-2023)  
Investigators: Dr. Mohd Hazri Mohd Rusli, Associate Professor Dr. Azianti Ismail, Mohd Saufy Rohmad

### ***Warehouse Management System Development***

Strategic Research Partnership (2021-2023)  
Investigators: Ir. Dr. Noor Azlina Mohd Salleh, Associate Professor Dr. Azianti Ismail, Dr. Mohd Hazri Mohd Rusli, Mohd Saufy Rohmad

### ***IR4.0 Lean Karakuri Assembly Line Teaching & Learning Physical Model for SMRI Lab***

Strategic Research Partnership (2020-2021)  
Investigators: Dr. Azianti Ismail Ir. Dr. Noor Azlina Mohd Salleh, Mohd Saufy Rohmad, Profesor Ir.Ts.Dr Yupiter Harangan Prasada Manurung, Ts. Dr. Noorfadzli Abdul Razak, Muhamad Nasrudin Hashim

### ***Analisis Kompetensi Anggota Lembaga Koperasi Di Malaysia***

Pusat Penyelidikan Institut Koperasi Malaysia (2021-2022)  
Investigators: Adila Hashim, Dr. Azianti Ismail, Puan Sri Datin Sri Noraesyah Saari, Siti Nuraini Abu Bakar, Norfaezah Mahmood, Nur Yazira Hamsan

***Investigation of Implementing Automation System in the Production Line for Malaysian Food Industry SMEs***

RAGS, MOE (2015-2017)

Investigators: Ahmad Naufal, Dr Azianti Ismail, Associate Professor Dr Nor Hayati Saad

***Manufacturing Process Improvement of M-type Sr-La-Co Ferrite Magnets***

Daegu University (2012-2014)

Investigators: Professor Won Jung, Azianti Ismail, Qiang Liu

***Agricultural Powertrain B<sub>10</sub> Life Reliability Improvement***

Daegu University (2010-2012)

Investigators: Professor Won Jung, Azianti Ismail

***New Framework Model of Integrated Total Quality Management (TQM) and Lean Manufacturing (LM) for Malaysian Automotive Vendors***

FRGS (S&T), MOE (2010-2013)

Investigators: Professor Dr Salmiah Kasolang , Professor Ir Dr Ahmed Jaafar, Azianti Ismail

***Anatomically Corrected Testbed (ACT) for Anthropomorphic Multi fingered Robotics Hand***

E-Science, MOSTI (2008-2010)

Investigators: Professor Ir Dr Ahmed Jaafar, Rosleena Jaafar, Azianti Ismail

***Investigation Press Hop Die Handling through Simulation***

Dana Kecemerlangan, Research Management Institute, UiTM (2008-2009)

Investigator: Azianti Ismail

## **TEACHING**

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### List of Courses Taught

**OPM770 – Operation Management** (2016 – current)

Topics covered operations management in both manufacturing and service. This course provides students with the knowledge and skills to apply both quantitative and qualitative techniques in the analysis of operations related problems. It also helps students to select the best strategies in making critical decisions for organizations to remain competitive in business, to retain market share, and for long term business survival.

**MEM673 – World Class Manufacturing** (2006 – 2010)

Topics covered include on the various successful World-Class Japanese manufacturing techniques such as TQC, Kaizen, QCCs, Kanban and JIT-Zero Inventory. The famous Toyota Production System will be highlighted and be the core reference in explaining the theory behind World-Class Manufacturing concept.

**MEM575 – Industrial Management***(2006 – 2010, 2021)*

Topics covered include functions and concepts for operation management, plant location, plant layout, procurement and inventory control, production planning and control, quality management and control, human resources and job design, maintenance management and other aspects such as forecasting, project management and lean production.

**MEM375 – Production Management***(2015 – 2020)*

This course comprises topics that encompass a wide spectrum of industrial management topics, ranging from fundamental management functions to techniques on planning and controlling processes that exist in a typical production environment.

**MEM360 – Manufacturing Processes and Technology***(2015 – 2020)*

The purpose of this course is to provide technology students with the broad spectrum of manufacturing processes. It introduces the learner to how each process works and its relative advantages and limitations, as well as the interaction the material and the process. Major emphasis is on the fundamentals of various aspects of processes employed in the production of metallic, polymeric and ceramic components in order to produce quality products in a competitive manner.

**MEM376 – Plant Engineering***(2018 – 2020)*

This course is basically designed for Mechanical Engineering students. Mechanical engineering has a large scope of industries, ranging from aerospace, manufacturing, construction, oil and gas, automotive industry and many more. Generally, most industries have their own different plants. In each plant, important element such as air-conditioning system, ventilation system, compressed air system, boiler system and fire-fighting system must have proper maintenance management. Major emphasis is on the basic operating principle of these systems. This course also covers the fundamental of industrial safety, health, and hazard.

**SUPERVISION**

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**PhD****2019**

Holistic Transformation Towards Lean Sustainability: The Success of Reformation in Terms of Institutional Governance

*Yasni Nurul Huda Mohd Yassin*

**MBA****2021**

Determinants of Student Enrolment in Private Higher Learning Institution: A Study of UniKL MITEC

*Siti Norhafizah Mohamed Safian, Noor Azrina Rahmat & Ummiruqayah Abu Bakar*

Determinants of Service Quality on Customer Satisfaction: Case of Veterinary Clinic,  
Department of Veterinary Service Johor, Johor Bahru  
*Muhammad Harris Shukor, Ruhil Izzati Rushdi & Nabiha Rosman*

**2020**

Factors Affecting Local Employment at Renggam Estate  
*Rosfazihan Baharom, Mohd Kamaruddin Jaffar & Arina Mahirah Masiani*

Measuring Patients' Satisfaction: A Case Study to improve for in patient food serving in  
KPJ Puteri Specialist Hospital  
*Nurzuhila Hayati Yaccob & Zuhaina Zainal Mohthar*

**2019**

Internal Factors that influence Decreasing of Company Job Value. A Study of Sinco  
Automasi Sdn. Bhd.  
*Siti Farhana Mahpot & Sufian Latib*

Effectiveness of Road Safety Initiatives for Accident Reduction: A Study of Road  
Transport Department  
*Nurhidayah Megat A. Rani, Mohd Fakrullah Mohd Rozaidi & Farawahida Idayu  
Nasaruddin*

**2018**

Factors that Contribute to Customer Loyalty and Satisfaction among Insurance Holder  
toward its Agent, Al Isra Johor  
*Siti Aishah Abdullah, Siti Nor Shageera Md.Nasir & Sulaiman Mohamed Taib*

**2017**

Determining Visitors' Satisfaction in Theme Parks: A Case of Angry Birds Activity Park  
*Abd Majid Bachok & Hazam Shahrin Hassan*

Level of Public Awareness Towards Separation at Source (SAS) Enforcement in Kota  
Tinggi Residential Area  
*Fairul Izzar Abdullah, Nurhafizah Ramli & Faeza Khasim*

**Master in Engineering Management**

**2020-2021**

Improvement of Condensate Treatment Process in Production of Nitrile Rubber Latex  
*Sharifah Noorainee Syed Mohd Yusof*

## **PUBLICATION**

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### **PhD Dissertation**

Framework of Effective Reliability Improvement Strategy in Product Development Process, August 2014, Daegu University, South Korea

### **MSc Dissertation**

Press Shop Die Handling Investigation through ECSL Simulation, September 2005, University of Manchester, UK

### **Research Report**

Jaffar, A., Jaafar, R., Ismail, A., Zakaria, N. "Anatomically-Corrected-Testbed (ACT) for Anthropomorphic Multi-fingered Robotics Hand, November 2010, Research Report, E-Science, MOSTI

Ismail, A., "Investigation Press Shop Die Handling through Simulation", January 2009, Research Report, Research Management Institute, UiTM

### **Journal**

**Ismail, A.**, Roslan, L., Ismail, H. B., & Salleh, N. A. M. (2021). "Students' Satisfaction towards Academic Advising Service". *Asian Journal of University Education*, vol. 17, no. 3, 291-298.

**Ismail, A.** & Omar, A., (2021). "Feedback on the Usage of Flipgrid as Platform for Short Video Assignment". *INSIGHT Journal*, vol. 8, no. 2, 76-80.

Ng, S.F., **Ismail, A.** & Tukiman, N. A. (2021) "Students' Perception on Using Teaching Video in Online Learning During COVID-19 Pandemic", *Journal of Creative Practices in Language Learning and Teaching*, vol. 9, no. 1, 10-19.

Mohd-Yassin, N. H., **Ismail, A.**, Othman, A. A. & Mohd-Shaharoun, A. (2021) "Institutional Reform Success Indicators in Higher Education", *Jurnal Intelek*, vol. 16, no. 1, 225-232.

Adnan, A. N., & **Ismail, A.** (2020). "Production Leveling System Implementation at Mixed Model Product with Heterogeneous Cycle Time for Single Operation Line", *International Journal of Integrated Engineering*, 13(2), 196-201.

Alias, S. K., Abdullah, B., Talari, M., Jumadin, M. H., Idham, M. F., & **Ismail, A.** (2017), "Effect of Pack Boronizing on Microstructure and Microhardness of 304 Stainless Steel", *Key Engineering Materials*, 54-59.

Nagib, A. N. M., Adnan, A. N., **Ismail, A.**, Halim, N. H. A., & Khusaini, N. S. (2016), "The Role of Hybrid Make-to-Stock (MTS)-Make-to-Order (MTO) and Economic Order Quantity (EOQ) Inventory Control Models in Food and Beverage Processing Industry", *IOP Conference Series: Materials Science and Engineering*, vol. 160, no. 1, 012003.

Adnan, A.N., **Ismail, A.**, (2016), "Improvement of Overall Efficiency of Production Line By Using Line Balancing", *ARPJ Journal of Engineering and Applied Sciences*, vol. 11, no. 12, 7752-7758.

Md Said, J, **Ismail, A.**, (2016), "Improvements of Worksite Control for Pull System", *ARPJ Journal of Engineering and Applied Sciences*, vol. 11, no. 12, 7699-7705.

**Ismail, A.**, Liu, Q., (2014), "ISO 26262 automotive functional safety: issues and challenges", *International Journal of Reliability and Applications*, vol. 15, no. 2, pp. 151-161.

Jung W., Liu, Q., **Ismail, A.** (2013), "Development of Accelerated Failure-free Test Method for Automotive Alternator Magnet", *Journal of Society of Korea Industrial and Systems Engineering*, vol. 36, no. 4, 92-99.

Salleh, N.A., Kasolang, S., Jaffar, A., **Ismail, A.**, (2013). "Green Lean TQM Suppliers, Organization and Customers Management Practices in Malaysian Automotive Companies". *Applied Mechanics and Materials*, vol. 393, 29-35.

**Ismail, A.**, Jung W. (2013), "Investigation of Technological Trends in Automotive Fault Prognostic System", *Journal of Society of Korea Industrial and Systems Engineering*, vol. 36, no. 1, 78-85.

**Ismail, A.**, Jung W. (2012), "Development of Design for Reliability in Brake Pad Case Study", *Journal of Society of Korea Industrial and Systems Engineering*, vol. 35, no. 3, 180-186.

**Ismail, A.**, Jung W., Ariffin, M.F., Noor, S.A., (2011)," Study of Electric Vehicle Battery Reliability Improvement", *International Journal of Reliability and Applications*, vol. 12, no. 2, 123-129.

### **Conference Proceedings**

**Ismail, A.** & Omar, A. (2020) "Affective Domain Assessment Made Easy Through Flipgrid", *Innovation in Teaching and Learning Competition 2020 (InTeLeC2020)*, 11 November 2020, 167-172.

**Ismail, A.** & Omar, A. (2020) "Feedback on the Usage of Flipgrid as Platform for Short Video Assignment", *Virtual Symposium on Teaching and Learning 2020*, 30 October 2020, 160-162.

**Ismail, A.**, Roslan, L., & Adnan, A. N. (2018) "Assessment on course outcome performance using Rasch measurement model", *2017 IEEE 9th International Conference on Engineering Education (ICEED)*, 8-9 November 2017, Kanazawa, Japan, 110-113.

Khusaini, N. S., Saad, N. H., Aziz, N., **Ismail, A.**, & Kasolang, S. (2018) "Relationship between demographic attributes and final examination performance using Rasch model", *2017 IEEE 9th International Conference on Engineering Education (ICEED)*, 8-9 November 2017, Kanazawa, Japan, 117-121.

**Ismail, A.**, and Jung W., (2016) "Improving Manufacturability and Reliability of Drive Shaft Component", *2016 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering*, 25-27 July 2016, Sichuan, China, 169-173.

Khusaini, N.S., **Ismail, A.** and Rashid, A. A., (2015) "Investigation of the prominent barriers to lean manufacturing implementation in Malaysian food and beverages industry using Rasch Model", *2015 2nd International Manufacturing Engineering Conference*, 11-14 November 2015, Kuala Lumpur, Malaysia, 1-7.

**Ismail, A.**, Liu, Q., and Jung W., (2015) "Accelerated Life Test Design for Tractor Powertrain Front Axle", *2015 3rd International Conference on Mechanical Engineering Research*, 18-19 July 2015, Kuantan, Pahang, 1-5.

Jung W., Liu, Q., **Ismail, A.** and Huh, Y., (2014) "Manufacturing process improvement of M-type Sr-La-Co ferrite magnets", *2014 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering*, 22-25 July 2014, Dalian, China, 36-40.

**Ismail, A.**, Jung W., (2013) "Issues and Challenges: ISO 26262 Automotive Functional Safety", *KSIE Conference Fall 2013*, 22 November 2013, Seoul, South Korea, 99-101.

**Ismail, A.**, Jung W., (2013) "Research Trends In Automotive Functional Safety", *2013 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering*, 15-18 July 2013, Emeishan, China, 3-6.

Liu, Q., **Ismail, A.**, Jung W., Huh, Y.K, Lee, D.Y., (2013) "Accelerated Life Test Design for Alternator Magnet", *KORAS Conference Spring 2013, 30-31 May 2013*, Jeju, South Korea, 157-163.



**Ismail, A.,** Jung W., (2013) "International Trend of Functional Safety", *KSIE Conference Spring 2013*, 11 May 2013, Incheon, South Korea, 99-102.

**Ismail, A.,** Jung W., (2012) "Recent Development in Automotive Prognostics", *KORAS Conference Fall 2012*, 23 November 2012, Incheon, South Korea, 147-153.

**Ismail, A.,** Jung W., (2012) "Prognostics and Health Management Trend in Automotive Industry: An Overview", *KSIE Conference Fall 2012*, 30 October 2012, Seoul, South Korea, 35-40.

Jung W., Kim G., **Ismail, A.,** (2012) "Reliability Improvement of Brake Pads-Case Study", *2012 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering*, 15-18 June 2012, Chengdu, China, 7-11.

**Ismail, A.,** Jung W., (2011) "Approach on Utilizing Customer Profile for ALT Design", *KSIE Conference Fall 2011*, 11 Nov 2011, Ansan, South Korea, 273-278.

Jung W., **Ismail, A.,** (2011) "Method of Determining Acceleration Factors for Agricultural Tractors", *2011 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering*, 17-19 June 2011, Xi'an, China, 163-166.

**Ismail, A.,** Jung W., (2011) "ALT Design using Field Failure and Usage Profile", *KORAS Conference Spring 2011*, 3 June 2011, Daegu University, South Korea, 21-26.

**Ismail, A.,** Jung W., (2011) "Estimation of Equivalent Damage Load for ALT Design", *KSIE Conference Spring 2011*, 28 May 2011, Gumi, South Korea, 114-119.

Hung, P.N., Jung W., **Ismail, A.** (2010) "Application of Reliability Growth in Coupled with Acceleration Life Test Model for Non-Repairable System", *KSIE Conference Fall 2010*, 20 Nov 2010, Daegu University, South Korea, 35-39.

Hung, P.N., Jung W., **Ismail, A.** (2010) "Application of Reliability Growth in Coupled with Acceleration Life Test Model", *KORAS Conference Fall 2010*, 12 Nov 2010, Kyonggi University, South Korea, 265-269.

**Ismail, A.,** (2009) "Investigation Press Shop Die Handling through Simulation", *Conference on Scientific and Social Research 2009*, 13 –15 Mac 2009, A'Famosa Resort Hotel, Melaka, ISBN 978-967-305-313-1.

## **ADMINISTRATIVE EXPERIENCE IN UiTM**

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**Associate Research Fellow** – Smart Manufacturing Research Institute, UiTM Shah Alam (2020-2022)

**Head of Internal Audit** – UiTM Johor, Pasir Gudang campus (2018-2020)

**Head for Centres of Studies** – Faculty of Mechanical Engineering, UiTM Johor, Pasir Gudang campus (2016-2018)

**Coordinator for Industry and Community Network** – UiTM Johor, Pasir Gudang campus (2015-2016)

**Head of Program EM221 (Bachelor of Mechanical Engineering (Manufacturing))** – UiTM Shah Alam (2008-2010)

## **INNOVATION AWARDS**

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**Gold Award Pitching Competition** – “LET IT OUT!!” Students' Psychological and Emotional Wellbeing Monitoring System, *International E-Content Development Competition 2021*

**Gold Award MOOC Competition** – Industrial Management, *International E-Content Development Competition 2021*

**Honorable Mention** – Feedback on the Usage of Flipgrid as Platform for Short Video Assignment, *Virtual Symposium on Teaching and Learning 2020*

**Silver Award** – Affective Domain Assessment Made Easy Through Flipgrid, *Innovation in Teaching and Learning Competition 2020*

**Bronze Award** – Wash & Dry Sneaker Machine, *International Tinker Innovation & Entrepreneurship Challenge Johor 2019*

**Silver Award** – Fish Scale Remover, *Melaka Innovation Invention Exhibition 2016*

**Silver Award** – Investigation of the Deterioration of Dross Separation System, *Penang Student Innovation Showcase 2015*

**Silver Award** – Development of Assembly Floor Layout, *Penang Student Innovation Showcase 2015*

**Bronze Award** – The Study on the Integration of Risk Assessment Evaluation, *Penang Student Innovation Showcase 2015*

## CONSULTANCY

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**Skim Peningkatan Produktiviti Enterpris (SPPE) Program MPC** – 3D Gens Sdn. Bhd., Shah Alam, 2020-2021

**Skim Peningkatan Produktiviti Enterpris (SPPE) Program MPC** – Sumber Petroleum Cemerlang Sdn. Bhd., Kapar, 2020-2021

**Skim Peningkatan Produktiviti Enterpris (SPPE) Program MPC** – 3D Pebble 3D Sdn. Bhd., Petaling Jaya, 2020-2021

**Lean Training Value Stream Map** – Kulim (M) Bhd., Kota Tinggi, 2019

**Lean Healthcare** - Operation Theatre Efficiency Hospital Sultan Ismail with UniKL MITEC, Johor Bahru, 2017-2018

**Lean Manufacturing** – Daily Production Stability with World Kitchen (M) Manufacturing Sdn. Bhd., Pasir Gudang, 2015-2016

**Feasibility Study** on Automated Tire Buffing Machine – Metal & Metal (M) Sdn. Bhd., Shah Alam, 2007-2008

## AWARD

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**Best Paper Award** – 2021 International Conference on Technology and Quality Management of Tertiary Education

**Anugerah Akademik** – 2018 UiTM Cawangan Johor (Anugerah Pengajaran)

**Anugerah Perkhidmatan Cemerlang UiTM** – 2017 & 2008

**Best Paper Award** – 2014 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering

**Award of Excellence Dissertation** – 2012 Korea Reliability Society

**Research Excellent Award** – 2011 Korea Reliability Society

## VISITING SCHOLAR

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3 - 14 July 2017 Visiting Researcher  
Department of Industrial and Management Engineering, **Daegu University, South Korea**

15 - 31 May 2016 Visiting Researcher  
Department of Virtual Production Engineering, **Technical University Chemnitz, Germany**

## INVOLVEMENT IN CURRICULUM DEVELOPMENT AND EVALUATION OF PROGRAM

Level	Program	Description of Activities	Year	Position
Diploma of Mechanical Engineering	Diploma of Mechanical Engineering (Manufacturing), Politeknik Ibrahim Sultan, Pasir Gudang, Johor	- Evaluate the quality of the programme offered - Recommend improvements on programme	2021 - 2023	<b>External Examiner</b>
Bachelor of Technology Precision Engineering	Bachelor of Technology Precision Engineering, UniKL MIDI, Cheras, Kuala Lumpur	Accreditation Panel evaluator for Engineering Technology Accreditation Council (ETAC) by Board of Engineer	2021	<b>ETAC Panel Evaluator</b>
Bachelor of Mechanical Engineering	Bachelor of Mechanical Engineering, Lincoln University College, Kelana Jaya, Selangor	Accreditation Panel evaluator for Engineering Technology Accreditation Council (ETAC) by Board of Engineer	2020	<b>Observer</b>
Diploma of Mechanical Engineering	Diploma of Mechanical Engineering (Manufacturing), Politeknik Ibrahim Sultan, Pasir Gudang, Johor	- Evaluate the quality of the programme offered - Recommend improvements on programme	2019 - 2021	<b>External Examiner</b>
Diploma of Engineering Technology	Quality Engineering UniKL MITEC, Masai, Johor	- Evaluate the quality of the programme offered - Recommend improvements on programme	2018 - 2023	<b>Program Assessor Committee</b>
Diploma of Mechanical Engineering	Faculty of Mechanical Engineering, UiTM Pulau Pinang	Revised the curriculum to fulfil the requirement of ETAC	2015 - 2018	<b>Revision Committee</b>

## INTERNAL THESIS EXAMINER

Title / Name of Student(s)	Level	Institution	Year / Semester
Causal Factors of Employee Engagement in Natural Rubber Plantation: The Case of Hamid Sawmill Sdn. Bhd. <i>Amru Abd Hamid &amp; Ahmad Nasa'ie Ismail</i>	Master	Arsyad Ayub Graduate Business School	2020/ Oct-Feb

Assessing the attributes of Purchasing and Its Impact to Cost Savings. A Study of Epson Precisions Sdn. Bhd. <i>Mohd Hazim Jaafar &amp; Raja Abd Hadi Raja Rozhan</i>	Master		2019/ Sep-Dis
A Study Contractors' Safety Awareness at MMHE Sdn. Bhd. <i>Muzaffar Shah Mohd Ariff, Enna Fasihah Fadilah, Izzah Asilah Mohamad Rosli</i>	Master		2019/ Mac-Jun
The Awareness of Tax Compliance among Taxpayers of Inland Revenue Board. A Case Study at LHDN <i>Jarinah Hitam, Irdarahayu Abidin</i>	Master		2018/ Mac-Jun
Processing of Aluminium Foam by Infiltration of NaCl Space Holder <i>Razmi Noh Mohd Razali</i>	Master		2015-2016
The Effect of Smoke Exposure from Diesel Heavy Duty Engine to the Worker's Lungs <i>Norlisah Saharuddin</i>	Master	School of Mechanical Engineering, UiTM Shah Alam	2015
Total Fatigue Life of Spot Welded Joint Dissimilar Material at Constant Amplitude Loading <i>Mohd Safwan Abdullah</i>	Bachelor		2014
Resistance Spot Welding Parameters of Optimization and Fatigue Life Prediction on Low Carbon Steel Sheet Metal <i>Mohamad Arif Roslan</i>	Bachelor		2014
Investigation on Weld Induced Mechanical Deformation and Residual Stress using FEA Method <i>Amirul Haziq Hasdi</i>	Bachelor		2014

### INDUSTRY BASED FYP PROJECTS (BACHELOR)

Title / Name of Student(s)	Company	Institution(s)	Year / Semester
Improvement Design of Blending Process <i>Faiz Hakimi Sharulizam</i>	Sumber Petroleum Cemerlang Sdn. Bhd., Kapar	School of Mechanical Engineering, UiTM Shah Alam	2021
Design Of Pulley System for Transferring the Oil Samples <i>Mohamad Ridhwan Mohamad Yunos</i>			
Re-layout the Warehouse according to the Kaizen Principle <i>Abdul Haziq Mustaqim Nor Azmi</i>			
Re-layout Of Oil Quality Control Laboratory <i>Mohd Nurhadi Hilmi Anuar</i>			

Process Improvement of Degreasing Operation at Ultrasonic Machine <i>Nurul Shyfiqa Mohd Hassim</i>	Mizuho Precision Engineering (M) Sdn. Bhd., Johor Bahru		2019	
Improvement of Quality Control for Die Attach Process in Semiconductor Industry <i>Khairul Ezwan Zahari</i>	ST Microelectronics Sdn. Bhd., Muar		2016	
Improvement of Supply and Retrieval System <i>Muhammad Syahir Ahmad Zabidi</i>	Autokeen Sdn. Bhd., Shah Alam		2016	
Improvement in Small Press Line through Line Balancing <i>Nur Ain Nabilah Ithnin</i>				
Improvement of Medium and Large Line Production through Line Balancing <i>Nor Haryani Nor Shahid</i>				
Improvement of Line Balancing for Production line <i>Nurul Ain Arbaai</i>	Konsortium ABASS Sdn. Bhd., Putrajaya			2015
Improvement of Work Site Control for Storage Area <i>Nurfadhilah Md Ris</i>				
Development of Material Information Flow Control <i>Muhamad Farid Ariffin Mohd Yunus</i>				
Study on Integrated of Risk Assessment Evaluation <i>Mohammad Irfan Norhasni</i>				
Development of Assembly Layout <i>Firhaein Aqmar Rosli</i>				
Improvement of Inventory Storage Layout <i>Qhaleila Salim</i>	SIRIM Micro Precision, Shah Alam			
Investigation on the Deterioration of Dross Separation System <i>Al-Afif Osman</i>	Solo Labeller Technology Sdn. Bhd., Puchong			
	Daiki Aluminium Industry (M) Sdn. Bhd., Bukit Raja			

### PRODUCT BASED DESIGN PROJECTS (DIPLOMA)

Title	No. of Students	Year/ Semester
Wash & Dry Sneaker Machine	1- <i>Aiman Faris Zainur Amin</i> 2- <i>Fadzlee Annuar Khaireel</i> 3- <i>Ainaa Nadhirah Abd Razak</i>	2019/Sep-Dis

	4- <i>Natasha Amirah Aziz</i>	
Seasoning Dispenser	1- <i>Muhammad Fahmi Mohd Yusof</i> 2- <i>Abdullah Amir Amsyar Othman</i> 3- <i>Alexander Anak Yam</i>	2019/Mac-Jul
Trolley Box	1- <i>Muhammad Adam Shamsul Harisah</i> 2- <i>Faidhi Hasif Ahmad Roshidi</i> 3- <i>Muhammad Nur Hakim Hariri</i>	2018/Sep-Dis
Trash Compactor	1- <i>Ahmad Kamil Adib Sukimi</i> 2- <i>Uwanur Hasanah Mohd Zain</i> 3- <i>Nur Adlina Hamdan</i> 4- <i>Intan Nurliana Zainol</i>	
Standing Chair	1- <i>Ahmad Khairi</i> 2- <i>Nizamuddin</i> 3- <i>Fuad Najmudin</i> 4- <i>Arissa Aqilah</i>	2018/Mac-Jul
Window Cleaner	1- <i>Muhammad Saiful Ridzuan Mazlan</i> 2- <i>Ahmad Alwi Abd Bari</i> 3- <i>Nasrin Dayana Mohamad Nasri</i> 4- <i>Zarith Nurfarisa Mohamad Zaki</i>	2017/Sep-Dis
Bathroom Organizer	1- <i>Muhammad Daniel Nor Azhar</i> 2- <i>Nur Hanisah Abd Ghani</i> 3- <i>Nurafiqah Amira Abdullah</i> 4- <i>Nurul Amira Omar</i> 5- <i>Nurul Siti Fatimah Abdullah</i>	
Fish Scale Remover	1- <i>Muhammad Khairi Ali</i> 2- <i>Mohd Saiful Azmeer Mohd Sazali</i> 3- <i>Siti Nursyafiqah Sazwa Ibrahim</i> 5- <i>Khairunisa Najwa Zahiruddin</i>	2016/Jun-Okt
Lift& Go - Vase Lifter	1- <i>Muhammad Aiman Jaafar</i> 2- <i>Muhammad Tajul Arus Kamarulaman</i> 3- <i>Nurul Shyfiqa Mohd Hassim</i> 4- <i>Nurul Jannah Yusaidi</i>	2015/Dis-Apr
Spin & Dry: Cloth Dryers	1- <i>Muhammad Rafiq Arif Razman</i> 2- <i>Muhammad Amir Fariduddin Mazlan</i> 3- <i>Mohammad Faris Jamsari</i> 4- <i>Muhaimin Kamarul Bahrain</i>	

## SPEAKER & PRESENTER

Details	Year
<p><i>"Let It Out!!" Students' Psychological and Emotional Wellbeing Monitoring System</i> 2021 International E-Content Development Competition - <b>Presenter</b></p>	2021
<p><i>Lean Kaizen in Healthcare- Sharing Session</i> Online Webinar organized by Hospital Sultan Haji Ahmad Shah, Temerloh, Pahang - <b>Speaker</b></p>	
<p><i>Industrial Practitioner Talk : Lean Kaizen</i> Online Webinar organized by School of Mechanical Engineering, College of Engineering, UiTM Shah Alam - <b>Speaker</b></p>	
<p><i>Coffee Talk : Securing A Consultation Project</i> Online Webinar organized by UiTM Cawangan Johor - <b>Speaker</b></p>	
<p><i>Students' Satisfaction Level Towards Academic Advising Service</i> 2021 International Conference on Technology and Quality Management of Tertiary Education - <b>Presenter</b></p>	
<p><i>Basic 5S and Lean Kaizen Training for Pebblereka Sdn. Bhd. and 3D Gens Sdn. Bhd.</i> Online Training organized by Malaysia Productivity Corporation (MPC) - <b>Trainer</b></p>	
<p><i>Quality Management: The Art of Managing</i> 1st Town Hall Virtual Business Lecturer Series, Far Eastern University Roosevelt Tertiary Department and Graduate School, Manila, Philippines – <b>Invited Speaker</b></p>	
<p><i>How Quality Your ODL is Tools for Student's ODL Engagement</i> Online Webinar organized by UiTM Cawangan Pahang - <b>Speaker</b></p>	2020
<p><i>Learning Management System - Google Classroom</i> Online Webinar organized by UiTM Cawangan Johor - <b>Speaker</b></p>	
<p><i>Introduction to Google Classroom</i> Online Webinar organized by Politeknik Ibrahim Sultan, Pasir Gudang - <b>Speaker</b></p>	
<p><i>Alternative Assessment for Affective Domain – Padlet</i> Online Webinar organized by UiTM Cawangan Johor - <b>Speaker</b></p>	
<p><i>Alternative Assessment for Affective Domain – Flipgrid</i> Online Webinar organized by UiTM Cawangan Johor - <b>Speaker</b></p>	
<p><i>Conducting Test on the Google Classroom</i> Online Webinar organized by UiTM Cawangan Johor - <b>Speaker</b></p>	
<p><i>Marking Test paper in the Google Classroom</i> Online Webinar organized by UiTM Cawangan Johor - <b>Speaker</b></p>	
<p><i>Feedback on the Usage of Flipgrid as Platform for Short Video Assignment</i> 2020 Virtual Symposium on Teaching and Learning - <b>Presenter</b></p>	
<p><i>Affective Domain Assessment Made Easy Through Flipgrid</i> 2020 Innovation in Teaching and Learning Competition - <b>Presenter</b></p>	



<p>a. <i>Flipgrid - Empowerment of Student Voice for Affective Domain Assessment</i>  b. <i>Effects of Digital Flipped Classroom Teaching Method on Learning Satisfaction and Outcome of Investment Analytics Course</i>  2019 Symposium on Teaching Excellence, Learner Driven Learning and Academic Research (STELLAR) - <b>Presenter</b></p>	2019
<p><i>Education 5.0: 21st Century Teaching and Learning Apps</i>  Organized by UiTM Cawangan Johor, Segamat campus - <b>Speaker</b></p>	
<p><i>21st Century Tools for Teaching and Learning Workshop</i>  Organized by UniKL MIAT - <b>Speaker</b></p>	
<p><i>Teaching e-Portfolio: How to become Visible? Wakelet e-teaching portfolio</i>  Organized by UiTM Cawangan Johor, Pasir Gudang campus - <b>Speaker</b></p>	
<p><i>Teaching &amp; Learning Tools for Gen Z</i>  Organized by UiTM Cawangan Johor, Pasir Gudang campus - <b>Speaker</b></p>	
<p><i>Art of Thinking: Six Thinking Hats</i>  Organized by UiTM Cawangan Johor, Pasir Gudang campus - <b>Speaker</b></p>	
<p><i>Academic Advisor Satisfaction among the FKM Students</i>  2018 Teaching and Learning Symposium, UiTM Cawangan Johor - <b>Presenter</b></p>	2018
<p><i>Assessment on Course Outcome Performance Using Rasch Measurement Model</i>  2017 IEEE 9th International Conference on Engineering Education (ICEED), Kanazawa, Japan - <b>Presenter</b></p>	2017
<p><i>Assessment on Course Outcome Performance Based on Examination Using Rasch Measurement Model</i>  2016 Conference of Heads of Academic Departments: "Talent Analytics: Developing Future Leaders", Negeri Sembilan, Malaysia - <b>Presenter</b></p>	2016
<p><i>Improving Manufacturability and Reliability of Drive Shaft Component</i>  2016 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering, Sichuan, China - <b>Presenter</b></p>	
<p><i>Accelerated Life Test Design for Tractor Powertrain Front Axle</i>  2015 International Conference on Mechanical Engineering Research, Pahang, Malaysia - <b>Presenter</b></p>	2015
<p><i>Manufacturing Process Improvement of M-type Sr-La-Co Ferrite Magnets</i>  2014 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering, Dalian, China - <b>Presenter</b></p>	2014
<p><i>Framework of Effective Reliability Improvement Strategy in Product Development Process</i>  Recent Advances in Safety and Reliability Symposium organized by Research Institute of Industrial Technology, Daegu University, Gyeongsan, South Korea - <b>Presenter</b></p>	
<p><i>Issues and Challenges: ISO 26262 Automotive Functional Safety</i>  2013 Korea Society of Industrial Engineering Conference Fall, Seoul, South Korea - <b>Presenter</b></p>	2013

<p><i>Research Trends in Automotive Functional Safety</i>  2013 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering, Emeishan, China - <b>Presenter</b></p>	
<p><i>Accelerated Life Test Design for Alternator Magnet</i>  2013 Korean Reliability Society Conference Spring, Jeju, South Korea - <b>Presenter</b></p>	
<p><i>International Trend of Functional Safety</i>  2013 Korea Society of Industrial Engineering Conference Spring, Incheon, South Korea - <b>Presenter</b></p>	
<p><i>Reliability Improvement of Brake Pads-Case Study</i>  2012 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering, Chengdu, China - <b>Presenter</b></p>	2012
<p><i>Method of Determining Acceleration Factors for Agricultural Tractors</i>  2011 International Conference on Quality, Reliability, Risk, Maintenance and Safety Engineering, Xi'an, China - <b>Presenter</b></p>	2011