

PROF. TS. DR. AIDAH JUMAHAT



Professor

School of Mechanical Engineering, College of Engineering
(Formerly known as Faculty of Mechanical Engineering (FKM))

Universiti Teknologi MARA
40450 Shah Alam, Selangor,
MALAYSIA

&

Head

Fracture Mechanics & Materials Integrity (FMMI) Research Group UiTM

&

Associate Fellow

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<https://expert.uitm.edu.my/profile.php?id=OrCUJhk45Vr9xt8sqAnNICKwU9AfiQMLI/1D1sL1r4=>

FIELD OF SPECIALISATION

Engineered Materials and Structures (EMAS) ; Polymer composites

Research Interest:

- Light-weight high-strength materials and structures;
 - Fibre reinforced polymer (FRP) composites, Polymer Nanocomposites, Engineering polymers
 - Fibre-Metal laminates (FML), Sandwich composites
 - Materials engineering; Metal and Ceramic matrix composites; Metal foams
 - Powder metallurgy; Powder compaction process; Injection moulding; Blow moulding
 - Engineering design; Machine elements design; Mechanics of materials; Finite element method
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EDUCATION BACKGROUND / ACADEMIC QUALIFICATION

PhD (Mechanical Engineering)

University of Sheffield, UNITED KINGDOM

Thesis Title: "*Effect of nanofillers on thermo-mechanical properties of polymers and composite laminates*"

2011

MSc (Mechanical Engineering)

Universiti Kebangsaan Malaysia, MALAYSIA

Thesis Title: "*Analysis of thermo-mechanical behaviour of warm powder compaction process*"

2002

BEng (Hons.) (Mechanical and Materials Engineering)

Universiti Kebangsaan Malaysia, MALAYSIA

1999

WORKING EXPERIENCE & ADMINISTRATIVE APPOINTMENT

Professor, UiTM

9 Jun 2022 – present

Deputy Director, Research Nexus UiTM (ReNeU), The Office of Deputy Vice Chancellor (R&I) UiTM 1 June 2020 – 14 July 2022

Acting Director, Research Nexus UiTM (ReNeU), The Office of Deputy Vice Chancellor (R&I) UiTM

March 2022

Associate Professor, UiTM	16 February 2015 – 8 Jun 2022
Director, Community of Research, Institute of Research Management & Innovation (IRMI) UiTM	1 January 2016 – 31 May 2020
Associate Member, Institute for Infrastructure Engineering & Sustainable Management (IIESM) UiTM	2 July 2020 – 30 June 2022
Fellow, Industrial Research Lab & Micro-Industry Hub with MTC Engineering Sdn Bhd	1 January 2021 – present
Head, Fracture Mechanics & Materials Integrity (FMMI) Research Group Tier 4 UiTM	10 May 2016 – present
Head, Centre of Studies: Engineering Mechanics and Materials, FKM UiTM	1 August 2011 – 31 December 2015
Programme Chair, Bachelor of Mechanical Engineering (Hons.) EM220, FKM UiTM	1 Mac 2012 – 28 February 2016
Chairman, ICT Technical Committee Zone W8 UiTM	1 July 2011- 31 December 2015
Committee Member, Outcome Based Education (OBE) UiTM	1 Jan 2015 - 31 December 2016
Senior Lecturer, UiTM	1 April 2008 – 15 February 2015
Lecturer, UiTM	2 May 2002 – 31 Mac 2008

PROFESSIONAL AFFILIATION

The Board of Engineers Malaysia (BEM) Graduate Member (47135A)	2005 – present
The Institution of Engineers Malaysia (IEM) Graduate Member (77644)	2015 – present
Malaysia Board of Technologist (MBOT) Professional Technologist (Ts.) (PT20120355)	2020 – present
Malaysia Board of Technologist (MBOT) Graduate Technologist (GT20050125)	2020 – present
International Association of Computer Science and Information Technology (IACSIT) Registered Senior Member (80345747)	2012 – present
Malaysian Tribology Society (MYTRIBOS) Executive committee; Registered member (L0512)	2013 – 2015; 2016 – present
Persatuan Industri Komposit (PIK) (Composites Industry Association) Executive Committee member (pik/2-14/02)	2013 – 2019
International Association of Engineers (IAENG) Registered Member (130852)	2013 – present
Malaysia Powder Metallurgy and Particulate Materials Association (MPM2A) Registered Member (0055)	2013 – present
Society of Engineering Education Malaysia (SEEM) Registered Member (P0251)	2014 – present

SUMMARY OF EXPERTISE / ACHIEVEMENT / CONTRIBUTION

1.	Experience	Academic (Teaching & Learning) experience	2001 – present (>21 years)		
		Research experience	1999 – present (>23 years)		
		Administrative experience	2011 – 2022 (12 years)		
2.	H-Index (retrieved date 22 May 2022)	Google Scholar	19 (No. of citation = 1261, No. of Docs. = 130)		
		Scopus	15 (No. of citation = 875, No. of Docs. = 94)		
		WoS	14 (No. of citation = 653, No. of Docs. = 73)		
3.	Number of Publications	Impact Factor (IF) WoS Indexed Journals (JCR WoS IF Journals)	23	Q1=8	Total : 178
				Q2=2	
				Q3=4	
				Q4=9	
		Scopus/WoS Indexed Journals	52		
Non-Indexed Refereed Journals	21				
Scopus/WoS Indexed Proceedings	31				
Non-Indexed Refereed Proceedings	42				

		Book/Chapter in Book	9		
		Journal/Book Editor	25	Total : 25	
4.	Number of Research Projects	National Grant	Completed = 26	6 (Leader) RM 703,346	Total : 82 RM 5,788,628
				20 (Member) RM 1,592,080	
			Ongoing = 4	2 (Leader) RM 248,700	
				2 (Member) RM 172,350	
			Total	30 (RM 2,716,476)	
		Industry/Agency (PRI), Pre-Commercialization & Strategic Research Partnership (SRP) Matching Grant	Ongoing = 12	3 (Leader) RM 107,000	
				9 (Member) RM 327,698	
			Total	12 (RM 416,848)	
		International Grant (via MoA)	Ongoing = 2	1 (Leader) RM 17,850	
				1 (Member) RM 20,000	
			Total	2 (RM 37,850)	
		Directly Funded Research (PBT) Grant	Ongoing = 1	1 (Leader) RM 17,850	
			Total	1 (RM 17,850)	
		University Grant	Completed = 27	10 (Leader) RM 324,383	
17 (Member) RM 605,000					
Ongoing = 9	3 (Leader) RM 191,800				
	6 (Member) RM 130,000				
Total	36 (RM 1,251,183)				
Approved Contract Research Grant with Petronas Research Sdn. Bhd.	Ongoing = 1	1 (Leader) RM 1,348,421			
	Total	1 (RM 1,348,421)			
5.	Number of Postgraduate Supervision	PhD (by Research)	Completed = 6	4 (Main supervisor) 2 (Co-supervisor)	Total : 29
			Ongoing = 7	4 (Main supervisor) 3 (Co-supervisor)	
		Masters (by Research) M.Sc.	Completed = 10	8 (Main supervisor) 2 (Co-supervisor)	
			Ongoing = 3	1 (Main supervisor) 2 (Co-supervisor)	
		Master (Mixed mode) M.Eng.	Ongoing = 3	3 (Main supervisor)	
6.	Number of Undergraduate Supervision (B.Eng)	Completed	106	Total : 113	
		Ongoing	7		
7.	Number of Industrial Training Supervision (B.Eng)	Completed	17	Total : 17	
		Ongoing	-		
8.	Conferences/ Seminar/ Workshop/ Program : Appointment & Involvement (Selected)	Keynote Speaker	8 (International)	Total involvement : 219	
		Invited speaker	3 (International) 4 (National) 73 (University)		
			Conference Chairman/ Vice Chairman/ Co-Chairman		4 (Internaitonal) 3 (National)
		Workshop Head of Program/Organizer	34 (University)		

		Committee member / other involvement	47	
		Conference Paper(s) Reviewer	43	
9.	Special Appointment / Expertise: Thesis Examiner / Judge / Evaluation Panel / Other Appointments (Selected)	MSc/PhD Thesis Examiner	16 (PhD Thesis) - International=2, National=6, UiTM=8	Total appointment : 279
			15 (Master) - National=12, UiTM=3	
		Judge / Evaluation Panel/ Viva Chairperson	11 (International) 22 (National) 128 (University)	
		International / National Committee Appointment	2 (International) 19 (National)	
		Indexed Journal Paper Reviewer	32	
		Policy/Guideline Maker/ Development Committee	12	
		Journal Editor / Journal Guest Editor / Book Editor / Editorial Board	25	
10.	Consultancy/ Industrial Linkage/ Collaboration/ MoU/MoA/LoA (Selected)	Consultancy	9 (RM73,800)	Total collaboration : 58
		Person In-Charge (PIC) for MoU/MoA/LoA	10	
		Industry & Agency Linkages	13	
		Institutional/University Collaboration	14 (International) 12 (National)	
11.	Intellectual Properties Right	12 (Copyright) & 2 (Patent-pending)		Total : 14
12.	Achievements/Awards (Selected)	Personal Awards / Achievement	51	Total : 63
		Group Awards / Achievement	12	
13.	Services (University / Student/ Community Involvement) (Selected)	University Administration	9	Total services : 196
		University Level Committee	87	
		Faculty Level Committee	48	
		Professional / Society / Community Membership	11	
		Contribution to Student Development	32	
		Contribution to Community	9	

DETAILS OF EXPERTISE/ ACHIEVEMENT/ CONTRIBUTION: International/ National/ University Level (Academic, Research Publication & Grant, Innovation, Expertise, Appointment, Administration, Collaboration & Award)

A TEACHING AND LEARNING: List of Courses taught (2002 – 2021)

No.	Course Name	No.	Course Name
1	Computer Aided Design (MEC435)	11	Manufacturing Processes (KJP326/276)
2	Finite Element Method (MEC630)	12	Strength of Materials (KJM244)
3	Mechanics of Composite Materials (MEC613)	13	Plant Engineering (KJP362)
4	Mechanical Engineering Design I (MEC531)	14	Strength of Materials I (KJM211)
5	Mechanical Engineering Design II (MEC532)	15	Strength of Materials II (KJM311)
6	Mechanics of Materials (MEC411)	16	Manufacturing Processes (KJP471)
7	Applied Mechanics Lab (MEC424)	17	Metallurgy (KJP212)
8	Engineering Statics (MEC412)	18	Fluid Power Technology (KJP342)
9	Mechanics of Materials I (KJM454)	19	Final Year Project I (MEC601)
10	Manufacturing Technology II (KJP356/370)	20	Final Year Project II (MEC602)

B SUPERVISION OF THESIS / DISSERTATION**B.1 POSTGRADUATE : Philosophy Doctorate (PhD), Full Research Mode, Main Supervisor (except when stated)**

No.	Name of Student	Thesis/ Research Title	Year
1	Norazean binti Shaari (2012582503)	Damage resistance and tolerance of advanced nanoparticles filled hybrid fiber composites	2012 – 2018
2	Napisah bt Sapiai (2012975101)	Thermo-mechanical properties of hybrid laminates reinforced with surface treated carbon nanotubes	2012 – 2017
3	Ghazirah Mustapha (2012895992) (Co-Supervisor)	Characterizing the biochemical principles of traditional Malay martial art movement	2012 – 2018
4	Noor Haznida Bakar (2012803568) (Co-Supervisor)	Investigation on the reinforcement of kevlar in natural fibres composite: Mechanical and morphological study	2012 – 2019
5	Ahmad Fuad Ab Ghani (2015412806) (Co-Supervisor)	Investigation and Modelling of Deformation and Failure Behaviour of Hybrid Composite Laminate	2015 – 2019
6	Ummu Raihanah Haji Hashim (2015752509)	Fibre microbuckling model of unidirectional and off-axis natural fibre composite laminates	2016 – 2020
7	Nurul Emi Nor Ain binti Mohammad (2015571113)	Fire retardant and thermo-mechanical properties of nanoparticles filled natural fibre reinforced polymer composites	2016 – 2021
8	Nang Jamilah binti Nik Omar (2019634126) (Co-Supervisor)	Corrosion Study for Watergate Application	2019 – 2023
9	Jamaliah Binti Md Said (2020202992)	Repair and Rehabilitation behaviour of Damaged Surface using Woven Arenga Pinnata Fibre Reinforced Nanogranite Epoxy Polymer Composites	2020 – 2024
10	Mohamad Asrofi Bin Muslim (2021142919)	Fire resistance and thermo-mechanical properties of nano-graphene Basalt Fibre Sandwich Composites	2021 – 2025
11	Mohd Azrul Bin Jaafar (2021178407) (Co-Supervisor)	Fatigue response of natural fibre reinforced nano-graphene epoxy composites	2021 – 2025
12	Ilya Izyan Binti Shahrul Azhar (2021289286)	Strengthening behaviour of thermoplastic thin film embedded natural fibre composites subjected to dynamic fatigue loading	2021 – 2025
13	Abdullah Azmin Bin Abdullah Suhaimi (2020431208) (Co-Supervisor)	Experimental Characterisation And Hyperelastic Modelling Of The Mechanical Behaviour Of Novel Coir-Silicone Biocomposite	2021 – 2025

B.2 POSTGRADUATE : Master Degree (MSc), Full Research Mode, Main Supervisor (except when stated)

No.	Name of Student	Thesis/ Research Title	Year
1	Ummu Raihanah Haji Hashim (2012916907)	Compressive properties of fibre reinforced polymer (CFRP) rod filled with aluminium foam	2012 – 2015
2	Widia Wahyuni Amir (2012591191)	Mechanical properties of nanoclay-modified fibre reinforced polymer composites	2012 – 2015
3	Nurhidayah Rozieana Binti Zamani (2012313917)	Thermal Analysis Of Nanomaterials Reinforced Epoxy Nanocomposites	2012 – 2015
4	Norhafiza binti Muhammad (2012272714)	Compressive properties of nanosilica filled hybrid composites laminates	2012 – 2015
5	Mohd Fadzli bin Ismail (2013683498)	Impact properties of advanced hybrid and sandwich laminates	2013 – 2016
6	Norhashidah binti Manap (2013692244)	Mechanical properties of kenaf hybrid composite laminates	2013 – 2016
7	Muhamad Faris Syafiq bin Khalid (2014227512)	Thermo-mechanical properties of treated arenga pinnata fibres reinforced nanomodified epoxy polymer	2014 – 2017
8	Siti Athirah binti Rasid (2011375039) (Co-Supervisor)	Fabrication of copper foam using powder metallurgy technique for thermal management application	2012 – 2018
9	Nor Shamimi binti Shaari @ Md Noh (2014219862) (Co-Supervisor)	Graphene-reinforced copper matrix composites produced by powder metallurgy route	2014 – 2017
10	Najiy Rizal Bin Suriani Rizal (2014166763)	Effect of design and process Parameters on quality of injection moulding PET parison	2014 – 2017
11	Anis Adilah Binti Abu Talib (2015433568)	Tribological properties of nanomodified polymers and FRP composites	2015 – 2018
12	Muhammad Naim Bin Mohd Najib (2020301475)	Effect of FRP Patch Repair on Hydrostatic Pressure of Metal Pipes	2020 - 2022

13	Murni Bt Awi (2020514655) (Co-Supervisor)	Curvature Structural Integrity of Advanced Hybrid Composite under Axial Dynamic Loading	2020 - 2022
14	Muhammad Aizuddin bin Mohamad (2020267212)	Dynamic Mechanical Analysis of Granite Dust Reinforced Natural Fibre Composites	2020 - 2022
15	Nurina Adriana binti Abdul Razak (2020825934) (Co-Supervisor)	Characteristics of Extracted Silica Powder from Granite Dust	2020 - 2022
16	Nur Fatin Amira binti Mohamed Yosri (2022108201)	Optimum formulation of fly dust cement paste for composite repair application	2022 - 2023

B.3 POSTGRADUATE : Master Degree (MEng), Mixed Mode, Main Supervisor (except when stated)

No.	Name of Student	Dissertation / Research Title	Year
1	Nor Ain Binti Shamshulizam (2020686684)	Analysis of stress and deformation of natural fibre reinforced polymer composites applied with impact loading	2021 - 2022
2	Norizham bin Abdul Razak (2021240978)	Mechanical properties of arenca pinnata fibre reinforced nanosilica thermoplastic membrane after seawater and chemical exposure	2022 - 2023
3	Aishah Naqiah binti Johari (2020694152)	Effect of chemical and seawater exposure on mechanical properties of polymer composite bar	2022 - 2023

B.4 UNDERGRADUATE : Bachelor Degree, Final Year Project, Main Supervisor (except when stated)

No.	Name of Students	Thesis/ Research Title	Year
1	Muhammad Amirul Iqmal Bin Rosman (2018414172)	Effect of nanosilica on mechanical properties of granite dust bar	2022 - 2023
2	Muhammad Zahin Bin Johar (2018414342)	Effect of Glass patching on mechanical properties of granite dust bar	2022 - 2023
3	Azri Akmal Danish Bin Nor Azman (2019495394)	Sisal Fiber Reinforced Polymer (FRP) Composites - Modelling And Applications	2021 - 2022
4	Muhamad Fauzan Bin A Halim (2019660538)	Bamboo Fibre Reinforced Polymer (FRP) : Simulation And Modeling Of Mechanical Properties Via ANSYS	2021 - 2022
5	Muhammad Arif Danial Bin Mohamad Asri (2018200048)	Coir Fiber Reinforced Polymer (FRP) : Simulation And Modelling Of Mechanical Properties Via ANSYS	2021 - 2022
6	Muhammad Fakhurrrazi Bin Mohammad Hizal (2019848618)	Banana Fibre Composites: Effect Of Lamination Scheme On Mechanical Properties Via ANSYS Simulation	2021 - 2022
7	Muhammad Khairul Zaim Bin Mohd Rashid (2018207938)	Pineapple Leaf Fiber (PALF) Reinforced Polymer Composites: Simulation and Modeling	2021 - 2022
8	Sabreena binti Wam (2017910451)	Effect of fibre orientation on mechanical properties of Kenaf fibre composites via ANSYS simulation	2021 - 2022
9	Nurul Faezah binti Azlan (2017342151)	Effect of off-axis on mechanical properties of jute fibre composites via ANSYS simulation	2021 - 2022
10	Azlin Binti Sa'adan (2017976821)	Effect of lamination scheme on mechanical properties of hemp fibre composites via ANSYS simulation	2021 - 2022
11	Muhammad Nizamuddin bin Dzafarullah (2017734281)	Unidirectional and Multidirectional basalt fibre composites via ANSYS simulation	2021 - 2022
12	Muhamad Afnan bin Jamal Abd Nasir (2017977507)	Mechanical properties of Unidirectional and Multidirectional flax fibre composites via ANSYS simulation	2021 - 2022
13	Meor Ahmad IZdanial bin IZham (2016578109)	Effect of fibre types on impact behaviour of synthetic and natural fibre composite laminates	2020 - 2021
14	Nurhisham bin Adnan (2017806248)	Modelling and simulation of tensile and open hole tension behaviour of synthetic and natural fibre composite laminates	2020 - 2021
15	Luqman Nurhaqim Bin Minhuaazam (2018287392)	Analysis of compressive and open hole compression behaviour of fibre composite laminates	2020 - 2021
16	Muhammad Badrul Amin Bin Mohd Radi (2018400652)	Bending stress and deformation analysis of fibre composite laminates	2020 - 2021
17	Nik Muhammad Amir Arsyian Bin Nik Muhammad Zailani (2016572219)	Mechanical properties of silica and silicon carbide powder filled epoxy polymer and fibre reinforced polymer composites	2020 - 2021
18	Muhammad Arif Bin Amizi (2017120891)	Mechanical properties of alumina powder filled epoxy polymer and fibre reinforced polymer (FRP) composites	2020 - 2021
19	Ahmad Nazirul Mubin bin Abdul Latiff (2017350351)	Mechanical properties of fly and bottom ash powder filled epoxy polymer and fibre reinforced polymer composites	2020 - 2021
20	Izham Bin Azman (2017806272)	Effect of quarry dust as substitute of sand on mechanical properties of concrete	2019 - 2020

21	Ahmad Lokman Al-Hakim Bin Mohd Fauzi (2017665792)	Optimum formulation of quarry dust as substitute of cement based on mechanical properties and durability of concrete	2019 - 2020
22	Muhammad Syazwan Bin Noor Asikin (2016329537)	Optimum formulation of granite dust unfired engineering brick	2019 - 2020
23	Muhamad Syafiq Naif bin Ismail (2017806806)	Characterisation of granite dust filled glass fibre reinforced polymer composites	2019 - 2020
24	Sharifah Shahirah bt Tuan Azam (2017806838)	Mechanical properties of granite dust filled epoxy polymer	2019 - 2020
25	Muhammad Aizuddin bin Mohamad (2017806624)	Buckling behaviour of Aluminium mesh Glass and Basalt Metal Laminates under axial impact loading	2019 - 2020
26	Mohd Nastain b Semail (2017665774)	Quasi-Static Indentation Behaviour of Aluminium mesh Glass and Basalt Metal Columns	2019 - 2020
27	Luqman Hakim bin Abu Hassan (2017806398)	Damage resistance and tolerance of thermoplastic thin ply reinforced fibre composites	2019 - 2020
28	Muhammad Syahmi Amir Bin Rosli (2016586311)	Quasi-static indentation and low-velocity impact properties of basalt fibre iron mesh fibre metal laminates	2019 - 2020
29	Izwan Mu'adzam Muhammad Bin Mohd Kamil (2016566077)	Effect of aluminium thin sheet and wire mesh on impact properties of basalt composites	2019 - 2020
30	Muhd Amir Muaz Bin Faizi (2016238632)	Interlaminar shear and flexural properties of woven fibre metal laminates	2018 - 2019
31	Muhammad Naim Bin Mohd Najib (2016238364)	Impact and quasi-static indentation properties of woven fibre metal laminates	2018 - 2019
32	Mohamad Helmi Bin Ahmad Abu Nawas (2016230084)	Open Hole Tension Properties of woven Fibre Metal Laminates	2018 - 2019
33	Wan Muhammad Hafizuddin Bin Wan Rosli (2016229946)	Damage tolerance properties of woven and cross ply fibre metal laminates	2018 - 2019
34	Muhammad Luqman Bin Che Ismail (2016238808)	Shear and flexural Stress-strain Response of unidirectional Fibre Metal Laminates	2018 - 2019
35	Mohamad Nasron Bin Mohamad Nasir (2016238356)	Indentation and impact resistance of unidirectional Fibre Metal Laminates	2018 - 2019
36	Muhammad Nor Aiman Bin Mhd Fadzil (2016238416)	Tensile Stress-strain Response of unidirectional Fibre Metal Laminates	2018 - 2019
37	Husna Zaemah binti Ramlan (2015834124)	Quasi Static Indentation Behaviour of Chopped Glass, Basalt, Carbon and Kenaf Composites Filled With Nanofillers	2017 - 2018
38	Muhammad Haziq bin Abd Halim (2015834778)	Open Hole Tension Properties of Nanofillers Filled Chopped Glass, Basalt, Carbon and Kenaf Composites	2017 - 2018
39	Nur Syarah Iffah binti Azizi (2015834784)	Flexural Behaviour of Chopped Natural and Synthetic Fibre Composites Filled With Nanofillers	2017 - 2018
40	Noor Farizza binti Romli (2015829984)	Tensile Behaviour of Chopped Glass, Basalt, Carbon and Kenaf Composites Filled With Nanofillers	2017 - 2018
41	Muhammad Amir Aiman bin Ismail (2015259548)	Compressive Behaviour of Chopped Natural and Synthetic Fibre Composites Filled With Nanofiller	2017 - 2018
42	Mohamad Aizat bin Aminuldin (2015836816)	Fracture Toughness of Chopped Glass, Basalt, Carbon and Kenaf Composites Filled With Nanofillers	2017 - 2018
43	Mohamad Amierul Aiezaq (2015209314)	Impact Response of Nanofillers Filled Chopped Glass, Basalt, Carbon and Kenaf Composites	2017 - 2018
44	Mohamed Adzummar Hakim bin Abdull Adziz (2015208654)	Friction Properties of Nanofillers Filled Chopped Glass, Basalt, Carbon and Kenaf Composites	2017 - 2018
45	Tengku Faizuddin bin Tengku Mohd Azmi (2015832086)	Abrasive Wear Properties of Chopped Natural and Synthetic Fibre Composites Filled With Nanofillers	2017 - 2018
46	Fatin Najwa binti Che Mohamad (2015896462)	Slurry Wear Properties of Chopped Glass, Basalt, Carbon and Kenaf Composites Filled With Nanofillers	2017 - 2018
47	Anthony Arthur Anak Mugin (2014394751)	Quasi-Static Indentation and Impact Properties of Basalt Composites	2016 - 2017
48	Muhammad Fashan bin Md Ghazali (2014582561)	Impact and Indentation Resistance Properties of Aluminium Foam-FRP Sandwich Panel	2016 - 2017
49	Amirul Hakim bin Muhammad Nor (2014672856)	Design and fabrication of Onion Chip Production Machine and System	2016 - 2017
50	Bahauddin bin Abdullah (2014653208)	Design and Fabrication of Roti Canai Production Machine and System	2016 - 2017
51	Mohd Aminuddin bin Azmin (2014435718)	Mechanical Properties of Nanosilica-Filled Unidirectional Basalt Fiber Reinforced Polymer Composite	2016 - 2017
52	Muhamad Arif Hakim bin Zulkifli (2014853318)	Tension and Open Hole Tension Properties of Nano-Modified Unidirectional Basalt Fiber Reinforced Polymer Composite	2016 - 2017

53	Muhamad Azim bin Ab Wahab (2014629934)	Compression and Open Hole Compression Properties of Nano- Modified Unidirectional Basalt Composites	2016 - 2017
54	Muhammad Hafiz bin Miswan (2014697472)	Wear and Thermal Properties of Unidirectional Basalt Fiber Reinforced Polymer Composites	2016 - 2017
55	Muhammad Tarmizi bin Sulaiman (2012635382)	Wear properties of nanoparticles filled UD GFRP composites	2015 - 2016
56	Muhammad Ameer bin Rosman (2012226318)	Analysis of Plastic flow behaviour during injection moulding process	2015 - 2016
57	Yusaimi bin Yasim (2013836778)	Modelling and Simulation of Unidirectional Kevlar Fiber Reinforced Polymer Composite Using ANSYS	2015 - 2016
58	Khairul Anwar bin Nik Zaid (2012247668)	Modelling and Simulation of Kenaf Fibre Reinforced Polymer Composite Using ANSYS	2015 - 2016
59	Muhammad Syafiq Haikal bin Mohd Riduan (2013844828)	Modeling and Simulation of Unidirectional Glass Fiber Reinforced Polymer Composite Using ANSYS	2015 - 2016
60	Muhammad Hanif bin Baharuddin (2013413722)	Modelling and Simulation of Unidirectional Carbon Fiber Reinforced Polymer Composite Using ANSYS	2015 - 2016
61	Muhammad Afiq bin Zubir (2013228084)	Izod, Charpy and drop weight impact of Arrenga Pinnata Composites	2015 - 2016
62	Ahmad Nazrin bin Abd Wahab (2013218824)	Izod, Charpy and drop weight impact of Kenaf Composites	2015 - 2016
63	Muhammad Sobri bin Omar (2011327767)	Design and fabrication of Injection Moulding mould	2014 - 2015
64	Ahmad Syahrul bin Mohd Roslan (2011703545)	Effect of carbon nanotubes on wear properties of polymer composites	2014 - 2015
65	Ariffuddin bin Haji Abdullah (2011309879)	Effect of nanoclay on wear properties of polymer composites	2014 - 2015
66	Muhammad Talha bin Bahari (2012677096)	Effect of nanosilica on wear properties of polymer composites	2014 - 2015
67	Muhammad Arif bin Ismail (2011206676)	Effect of surface treatment on mechanical properties of UD glass composites	2014 - 2015
68	Adam bin Tahir (2011496248)	Mechanical properties of nanoclay-filled kenaf composites	2014 - 2015
69	Mohd Assuwan bin Hassan (2011426318)	Mechanical properties of nanosilica-filled kenaf composites	2014 - 2015
70	Muhamad Safwan Syazuan bin Ab Jopi (2012639578)	Open hole compression properties of FRP composites	2014 - 2015
71	Mohamed Harriz bin Razali (2011203418)	Compression after impact properties of FRP composites	2014 - 2015
72	Ahmad Zariff bin Haderi (2010873056)	Open - Hole Tension Properties of FRP Laminates	2013 - 2014
73	Mohamed Khafiz bin Mohamed Razif (2011438116)	Impact resistance properties of FRP Laminates	2013 - 2014
74	Mohd Aidil Idham bin Usoff (2011653116)	Fracture Toughness of Nanomodified Polymer	2013 - 2014
75	Shafika Elia binti Ahmad Aseri (2011660778)	Impact Resistance of CFRP Sandwich composites	2013 - 2014
76	Nurul Hafizah binti Mohamad Duri (2011876148)	Compressive Properties of GFRP Sandwich composites	2013 - 2014
77	Amirussalihin bin Hj Ludin (2010955957)	Tensile and compressive properties of UD GFRP/Kenaf composites	2013 - 2014
78	Raja Nasrul Hakim b. Raja Aris (2010359235)	Tensile and compressive properties of UD CFRP/Kenaf composites	2013 - 2014
79	Mohd Hairilizwan b. Mohd Arshad (2010964009)	Quasi – static indentation measurement of nanoparticle – filled GFRP composites	2013 - 2014
80	Muhamad Zulharith b. Rashid (2009536483)	Impact resistance of nanoparticle filled woven GFRP composites	2013 - 2014
81	Aiman Hakim b. Nordin (2009916757)	Compressive properties of GFRP tubes with Al insert rod	2013 - 2014
82	Muhammad Saiful Islam b. Mohd Izra'ai (2009766283)	Thermogravimetry and mechanical analysis of polymers	2013 - 2014
83	Muhamad Nazih b. Ahmad (2009941465)	Dynamic thermo-mechanical analysis (DTMA) of polymers	2013 - 2014
84	Mohd. Ali Hanafiah b. Shairi (2009520005)	Compressive properties of GF and CF hybrid composites	2013 - 2014

85	Mohammad Faizal b. Sulaiman (2009426052)	Impact properties of woven glass fiber reinforced polymer composites	2012 - 2013
86	Khaleel Husaini b. Yahya (2010251574)	Damage resistance of kevlar fibre reinforcement polymer composites	2012 - 2013
87	Norliza bt. Abdullah (2010237338)	Effect of micron sized filler on the impact properties of carbon fiber reinforced polymer composite	2012 - 2013
88	Idzuwan b. Zulkifli (2009430332)	Fabrication and characterisation of CFRP laminate using resin infusion system	2012 - 2013
89	Muhammad Amirul Afiq b. Mohd Ikhsan (2009401914)	Design and fabrication of a milling machine for the fabrication of epoxy nanocomposites	2012 - 2013
90	Muhammad Hafiz b. Hamzah (2010684308)	Design and fabrication of compression test rig for fibre reinforced polymer system	2012 - 2013
91	Mohd Asyraf b. Nasir (2009624788)	Design and fabrication of dry filament winding machine for CFRP composites	2012 - 2013
92	Izanol Azreen b. Hamzah (2009757673)	Tensile properties of nanosilica modified CFRP composite	2012 - 2013
93	Amir Zakwan b. Abdul Kahar (2009319509)	Influence of Alumina (Al_2O_3) on impact properties of chopped glass fiber reinforced epoxy	2012 - 2013
94	Mohd Khaidir b. A. Rahman (2009406772)	Effect of off-axis ply orientation on compressive strength of CFRP composites	2011 - 2012
95	Engku Muhammad Azlan b. Che Engku Husin (2005645701)	A study on mechanical and physical properties of green SiC and Si_3Ni_4 reinforced MMC components	2007 - 2008
96	Mohd Azhar b. Abdul Wahab (2005646132)	A study on sintering behaviour of sintered SiC and Si_3Ni_4 reinforced MMC components	2007 - 2008
97	Mohd Nafri b. Abdul Ghani (2005645740)	Development of high strength light metal alloy using P/M route	2007 - 2008
98	Muhammad Hisham b. Sulaiman (2005607529)	Characterization of nano particle reinforced metal matrix composites	2007 - 2008
99	Mohd Amirul b. Zainal (2004656127)	Effect of reinforcement material particle size on densification of iron green compacts	2006 - 2007
100	Noor Adzahir Mohd Ali (2004653876)	Development of a novel iron metal matrix composites using powder metallurgy technique	2006 - 2007
101	Shahrul Aszad Md Rozali (2004215363)	Paper fly ash reinforced metal matrix composite materials	2006 - 2007
102	Mohd Farrid Shaari (2004215157)	The effect of shot peening process on fatigue strength of automotive valves	2006 - 2007
103	Ayuniza Binti Hassan (2004104632)	Silicon nitride reinforced aluminium metal matrix composites	2006 - 2007
104	Fikri Ruzaini Bin Muhamad (2004364899)	Effect of silicon carbide on the mechanical and physical properties of metal matrix composite	2006 - 2007
105	Syazuan Bin Abdul Latif (2004346109)	Development of lightweight metal matrix composite materials using alumina as reinforcement material	2006 - 2007
106	Mohd Norizan Mohd Zain (2001120741)	A study on the effect of alloying element on physical and mechanical properties of P/M parts	2006 - 2007
107	Zahirudin b. Mohd (2002612971)	Effect of sintering temperature on mechanical properties of Alumina components	2005 - 2006
108	Mohd Azri b. Juif (2002334252)	Effect of compaction pressures on mechanical properties of alumina components	2005 - 2006
109	Mohd Affendi b. Shaari (2002334245)	Effect of sintering temperature on mechanical properties of Zirconia components	2005 - 2006
110	Mohd Khazairudin Azwadi b. Razali (2000338423)	Determination of mechanical properties of a shot peened automotive valve	2003 - 2004
111	Nasmin @ Mohd Amin b. Addnan (2000338295)	Determination of mechanical properties of a shot peened automotive valve	2003 - 2004
112	Mohamed Azwa b. Hasshim (2000338494)	Modelling of thermo-mechanical behaviour of ceramic powders during cold and warm compaction	2003 - 2004
113	Mohd Sani b. Jamailudin (2000338510)	Experimental studies of thermo-mechanical behaviour of ceramic during compaction processes	2003 - 2004

B.5 INDUSTRIAL TRAINING: Main Supervisor for Internship Program of Bachelor Degree Student

No.	Name of Students	Industrial Training Project Report Title	Training Location	Duration
1	Muhammad Amirul Iqmal Bin Rosman (2018414172)	Fabrication, testing and Installation of Natural FRP(AP) composites at Indah Water Konsortium	Institute for Infrastructure Engineering & Sustainable Management (IIESM)	Feb – Apr 2022
2	Muhammad Bukhari Bin Abd Hamid (2019814564)	Fabrication, testing and Installation of Natural FRP(B/AP) composites at Indah Water Konsortium	IIESM	Feb – Apr 2022
3	Mohamad Faizal Bin Hamidun (2019653926)	Fabrication, testing and Installation of Natural FRP(B/G) composites at Indah Water Konsortium	IIESM	Feb – Apr 2022
4	Mohamad Izzuddin Hisyam Bin Mohd Noor (2018288776)	Fabrication, testing and Installation of Natural FRP(B) composites at Indah Water Konsortium	IIESM	Feb – Apr 2022
5	Muhammad Zahin Bin Johar (2018414342)	Fabrication, testing and Installation of Natural FRP(B/G/AP) composites at Indah Water Konsortium	IIESM	Feb – Apr 2022
6	Mohamad Hilmidinie Bin Abdul Rahman (2019601668)	Pineapple Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
7	Muhamad Fauzan Bin A Halim (2019660538)	Bamboo Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
8	Muhammad Arif Danial Bin Mohamad Asri (2018200048)	Coir Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
9	Muhammad Fakhurrrazi Bin Mohammad Hizal (2019848618)	Banana Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
10	Azri Akmal Danish Bin Nor Azman (2019495394)	Sisal Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
11	Sabreena binti Wam (2017910451)	Kenaf Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
12	Nurul Faezah binti Azlan (2017342151)	Jute Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
13	Azlin Binti Sa'adan (2017976821)	Hemp Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
14	Muhamad Afnan bin Jamal Abd Nasir (2017977507)	Flax Fiber Composites Laminates : Properties Evaluation	IIESM	July – Oct 2021
15	Izham Bin Azman (2017806272)	Properties evaluation of granite ash-sand based concrete	IIESM	July – Oct 2019
16	Ahmad Lokman Al-Hakim Bin Mohd Fauzi (2017665792)	Properties evaluation of granite ash-cement based concrete	IIESM	July – Oct 2019
17	Muhammad Syazwan Bin Noor Asikin (2016329537)	Properties evaluation of granite ash-based engineering brick	IIESM	July – Oct 2019

C RESEARCH GRANTS (Project Leader & Member)**C.1 INTERNATIONAL INDUSTRY/AGENCY/INSTITUTION GRANT**

No	Research Project Title	Grant type & Source	Collaborator	Total Fund (RM)	Role	Year
1	Effect of Silica Nanogranite on Mechanical Properties of Surface Treated Arenga Pinnata Natural Fibre Composites. Grant Code: 100-RMC 5/3/SRP (038/2021)	International	Universitas Indonesia	17,850	Leader	2021-2023
2	Fabrication Vertical Static Test Rig for Static Test of Spark Rocket In Malaysia Grant Code: 100-RMC 5/3/SRP INT (005/2022)	International	Equatorial Space Systems, Singapore & Nanyang Technological University	20,000	Member	2021-2023

C.2 NATIONAL INDUSTRY/AGENCY GRANT (PRI), PRE-COMMERCIALIZATION, STRATEGIC RESEARCH PARTNERSHIP (SRP) MATCHING GRANT, CONTRACT RESEARCH GRANT & DIRECTLY FUNDED RESEARCH (PBT) GRANT

No	Research Project Title	Grant type	Collaborator	Total Fund (RM)	Role	Year
1	Natural fibre composite repairs for structures & buildings - Design, Installation, Testing & Inspection	Contract Research (Industry Grant)	Petronas Research Sdn. Bhd.	1,348,421	Leader	2021-2024
2	Site installation, repair and field test of damaged/corroded pipes and mechanical components using nanoparticle embedded fibre composites patch Grant Code: 100-RMC 5/3/SRP PRI (031/2020)	Industry / PRI	Indah Water Konsortium, Sdn. Bhd. (IWK)	28,500	Leader	2020-2022
3	Performance evaluation of nanoparticle embedded fibre composites patch on damaged/corroded pipes and mechanical components Grant Code: 100-RMC 5/3/SRP (001/2020)	SRP UiTM	Indah Water Konsortium, Sdn. Bhd.	28,500	Leader	2020-2022
4	Thermal properties of granite dust filled glass fibre reinforced polymer composites Grant Code: 100-RMC 5/3/SRP (018/2020)	SRP UiTM	AANS Technical & services Sdn. Bhd.	50,000	Leader	2020-2022
5	Development of HAP/PLA composite filament for 3D printing in biomedical application Grant Code: 100-TNCPI/PRI 16/6/2 (009/2021)	Agency / Private (PRI)	Malaysian Tribology Society (Mytribos)	12,000	Member	2021-2022
6	Analyse coating for Teekay coupling casing Grant Code: TECHKNOWHOW-(001/2021)	TechKnow How BITCOM	AANS Technical & Services Sdn. Bhd.	37,848	Member	2021-2022
7	MIH (MTCE FKM) Development of Rocket Motor Technology Grant Code: MIH-(005/2020)	Micro Industry Hub (MIH) BITCOM	MTC Engineering Sdn Bhd	150,000	Member	2020-2022
8	Mechanical properties of granite dust filled glass fibre reinforced polymer composites Grant Code: 100-RMC 5/3/PRI (038/2020)	Industry / PRI	AANS Technical & services Sdn. Bhd.	50,000	Member	2020-2022
9	Fabrication of quarry waste reinforced insulation panel Grant Code: 100-RMC 5/3/SRP PRI (039/2020)	Industry / PRI	Adigo Sdn. Bhd.	10,000	Member	2020-2022
10	Impact resistance of quarry waste reinforced insulation panel Grant Code: 100-RMC 5/3/SRP (019/2020)	SRP UiTM	Adigo Sdn. Bhd.	10,000	Member	2020-2022
11	Development of low altitude rocket mission tracker and telemetry Grant Code: 100-RMC 5/3/SRP PRI (024/2020)	Industry / PRI	MTC Engineering Sdn Bhd	10,000	Member	2020-2022
12	Development of composite solid rocket motor casing Grant Code: 100-RMC 5/3/SRP (020/2020)	SRP UiTM	MTC Engineering Sdn Bhd	10,000	Member	2020-2022
13	Effect of Surface Treatment on Mechanical Properties of Surface Treated Arenga Pinnata Natural Fibre Composites	PBT	Universitas Indonesia	17,850	Member	2021-2023
14	Static Test of Spark Rocket in Malaysia Grant Code: 100-RMC 5/3/SRP (028/2021)	SRP UiTM	Nanyang Technological University (NTU)/ Equatorial Space Systems, Singapore	20,000	Member	2021-2023

C.3 NATIONAL GRANT

No	Research Title	Grant type & Source	Total Fund (RM)	Role	Year
1	Elucidation of toughening and self-healing mechanisms of	FRGS	92,700	Leader	2019-

	polyethersulphone veil embedded natural fibres smart polymer nanographene-composites Grant Code: 600-IRMI/FRGS 5/3 (336/2019)	MOE			2022
2	High adhesive nanoresin biobased basalt patch prototype for internal defect pipeline rehabilitation Grant Code: 600-IRMI/PRGS 5/3 (009/2019)	PRGS MOE	156,000	Leader	2019-2022
3	Process improvement for production of onion chips Grant Code: 100-IRMI/PRI 16/6/2 (0050/2016)	PPRN MOHE	37,157	Leader	2016 - 2017
4	Characterisation of advanced fibre pultrusion nanospheres embedded polymer composites Grant Code: 600-RMI/FRGS 5/3 (145/2014)	FRGS MOHE	117,200	Leader	2014 - 2016
5	Establishing greener injection moulding system to increase productivity and produce high quality plastic bottles Grant Code: 600-RMI/ICAN KTP 5/3 (28/2015)	KTP MOHE	144,935	Leader	2014 - 2016
6	Thermo-mechanical behaviour of novel nanoparticles-hybrid fibre laminates Grant Code: 600-RMI/RACE 16/6/2(7/2013)	RACE MOHE	44,500	Leader	2014 - 2016
7	Novel hybrid nanofiller characteristic for high fracture toughness ship hull Grant Code: 600-RMI/FRGS 5/3 (59/2012)	FRGS MOHE	91,560	Leader	2012 - 2014
8	Characterization of a novellight-weight metal matrix composite with nanomaterial reinforcement Grant Code: 100-IRDC/SF 16/6/2(13/2007)	ScienceFund MOSTI	267,994	Leader	2006 - 2009
9	Mathematical modelling theory of metal doped hydroxyapatite artificial cranium impact behaviour Grant Code: 600-IRMI/FRGS 5/3 (162/2019)	FRGS MOE	88,000	Member	2019-2022
10	Structural stability of advanced hybrid composite under axial dynamic loading Grant Code: 600-IRMI/FRGS 5/3 (163/2019)	FRGS MOE	84,350	Member	2019-2022
11	Automatic multi cutting and pressing machine Grant Code: 100-IRMI/PRI 16/6/2 (012/2017)	PPRN MOHE	40,500	Member	2017 – 2018
12	Design and fabrication of frying machine for kacang bersalut Grant Code: 100-IRMI/PRI 16/6/2 (0044/2016)	PPRN MOHE	36,000	Member	2016 – 2017
13	Design and fabrication of mixing machine and packaging system for kacang bersalut Grant Code: 100-IRMI/PRI 16/6/2 (0037/2016)	PPRN MOHE	36,000	Member	2016 – 2017
14	Solving the problem of machining of alumina guide pin sintered components Grant Code: 100-IRMI/PRI 16/6/2 (0036/2016)	PPRN MOHE	35,000	Member	2016 – 2017
15	Kneading and divider machine for production of 'roti canai' Grant Code: 100-IRMI/PRI 16/6/2 (0049/2016)	PPRN MOHE	29,250	Member	2016 – 2017
16	Mathematical modelling of skin and synthetic skin (hydrogel-silicone biocomposite) deformation behaviour based on hyperelastic constitutive equations Grant Code: 600-RMI/FRGS 5/3 (0098/2016)	FRGS MOHE	116,000	Member	2016 - 2018
17	Sliding wear properties enhancement of pulverized copper matrix composite via carbon nanotube de-agglomerator Grant Code: 600-RMI/FRGS 5/3 (41/2015)	FRGS MOHE	114,200	Member	2015 – 2017
18	Effect of infiltration factors on biomorphic silicon carbide converted from different wood powders waste Grant Code: 600-RMI/FRGS 5/3 (52/2015)	FRGS MOHE	106,000	Member	2015 – 2017
19	Modelling and fabrication of high strength energy absorber cellular aluminium foam Grant Code: 600-RMI/RACE 16/6/2(6/2013)	RACE MOHE	49,000	Member	2014 – 2016
20	Optimization the characteristic springback phenomenon of dual phase steel (DP590) Grant Code: 100-RMI/SF 16/6/2 (5/2014)	ScienceFund MOSTI	147,000	Member	2014 – 2016
21	Environmentally friendly synthesis of monodisperse nickel (Ni)-gold (Au) bimetallic Grant Code: 600-RMI/RAGS 5/3 (66/2013)	RAGS MOHE	65,000	Member	2013 – 2015
22	Tribological characteristics of different lubricant additives in lead free bearing materials Grant Code: 600-RMI/ERGS 5/3 (17/2013)	ERGS MOHE	100,000	Member	2013 – 2015
23	Corrosion characteristics of nanocrystalline cobalt-nickel-iron	FRGS	115,000	Member	2013 –

	coated steel in marine environment Grant Code: 600-RMI/FRGS 5/3 (19/2013)	MOHE			2015
24	Advanced NiTi intermetallic compounds superior shape memory behaviour Grant Code: 600-RMI/FRGS 5/3 (38/2012)	FRGS MOHE	94,330	Member	2012 – 2015
25	Bovine skin bio- mechanical characterisation Grant Code: 600-RMI/FRGS 5/3 (25/2012)	FRGS MOHE	52,000	Member	2012 – 2015
26	Damage characteristics of kevlar/fibreglass/nanosilica hybrid composites Grant Code: 600-RMI/RAGS 5/3 (197/2012)	RAGS MOHE	80,000	Mentor & Member	2012 – 2014
27	Characterisation of advanced carbon fibre laminates Grant Code: 600-RMI/RAGS 5/3 (38/2012)	RAGS MOHE	80,000	Mentor & Member	2012 – 2014
28	Thermo-mechanical characteristics of superior carbon nanotubes nanocomposites Grant Code: 600-RMI/RAGS 5/3 (58/2012)	RAGS MOHE	80,000	Mentor & Member	2012 – 2014
29	Dynamic thermal rheological analysis of impacted arenga pinnata fibre reinforced epoxy composites Grant Code: 600-RMI/RAGS 5/3 (41/2012)	RAGS MOHE	80,000	Mentor & Member	2012 – 2014
30	A novel corrosion resistant cast iron with optimized mechanical and physical characterization Grant Code: 100-IRDC/SF 16/6/2(70/2007)	ScienceFund MOSTI	136,800	Member	2007 – 2009

C.4 UNIVERSITY GRANT

No	Research Title	Grant type & Source	Total Fund (RM)	Role	Year
1	Silica extraction from granite waste and its optimum formulation for high performance high durability engineering brick Grant Code: 600-RMC/KEPU 5/3 (016/2021)	KEPU UiTM	40,000	Leader	2021-2023
2	Characterisation of granite ash extracted silica powder filled fibre reinforced polymer composites Grant Code: 600-RMC/DINAMIK-POSTDOC 5/3 (004/2020)	DINAMIK UiTM	136,800	Leader	2020 – 2022
3	Synergizing research and assessment for frontier materials and industrial applications Grant Code: 600-IRMI 5/3/LESTARI (005/2019)	LESTARI UiTM	15,000	Leader	2019-2022
4	Failure mechanisms of aluminium foam-basalt FRP sandwich panel Grant Code: 600-IRMI/DANA 5/3/REI (11/2017)	REI UiTM	32,000	Leader	2017 – 2019
5	Pendekatan kreatif meningkatkan visibiliti dan kolaborasi - FMIA Grant Code: 600-IRMI/MyRA 5/3/LESTARI (K) (171/2017)	LESTARI UiTM	15,000	Leader	2017-2019
6	Friction and wear of nanoclay modified fiber reinforced polymer composites Grant Code: 600-IRMI/MyRA 5/3/GIP (053/2017)	GIP UiTM	20,000	Leader	2017 - 2018
7	Fire resistance and thermo-mechanical properties of radiation-treated basalt composites Grant Code: 600-IRMI/DANA 5/3/BESTARI (0007/2016)	BESTARI UiTM	50,000	Leader	2016 - 2019
8	Fibre microbuckling model of unidirectional and off-axis natural fibre composite laminates Grant Code: 600-IRMI/GIP 5/3 (0018/2016)	GIP UiTM	30,000	Leader	2016 - 2017
9	Novel hybrid nanofiller characteristic for high fracture toughness ship hull Part 3 Grant Code: 600-RMI/DANA 5/3/CIFI (12/2013)	CIFI UiTM	60,000	Leader	2013 - 2015
10	Novel hybrid nanofiller characteristic for high fracture toughness ship hull Part 2 Grant Code: 600-RMI/DANA 5/3/PSI (119/2013)	PSI UiTM	60,000	Leader	2013 - 2015
11	Tensile and in-plane shear properties of a novel fibre reinforced polymer composite laminates Grant Code: 600-RMI/ST/DANA 5/3/Dst (468/2011)	Dana Kecemerlangan UiTM	10,000	Leader	2011 - 2012
12	Experimental studies on cold and warm ceramic powders compaction processes: application to malaysian powder metallurgy industries Grant Code: 600-BRC/ST 5/3/602	Short Term Grant UiTM	37,383	Leader	2003 - 2004

13	Simulation studies on cold and warm compaction processes of iron powders using finite element methods Grant Code: 600-IRDC/ST 5/3/652	Short Term Grant UiTM	10,000	Leader	2003 - 2004
14	Modification of pvdf hollow fibre membrane using 2D MOS2 for membrane distillation based desalination Grant Code: 600-TNCPI 5/3/DDF (FKK) (002/2021)	DDF FKK	20,000	Member	2021- 2023
15	Thermal analysis on solid rocket motor body Grant Code: 600-RMC/MyRA 5/3/LESTARI (048/2020)	LESTARI UiTM	20,000	Member	2020 – 2022
16	Damage tolerance index of quarry waste reinforced insulation panel Grant Code: 600-RMC/MyRA 5/3/LESTARI (052/2020)	LESTARI UiTM	20,000	Mentor & Member	2020 – 2022
17	Flame retardant mechanisms of granite dust filled basalt fibre reinforced polymer composites Grant Code: 600-RMC/MyRA 5/3/LESTARI (054/2020)	LESTARI UiTM	20,000	Mentor & Member	2020 – 2022
18	Silanzation effect on the thermo mechanical properties of extracted silica arenga pinnata composites Grant Code: 600-RMC/MyRA 5/3/LESTARI (058/2020)	LESTARI UiTM	20,000	Mentor & Member	2020 – 2022
19	Establishment of Research Collaboration between UiTM – The University of Manchester, UK – UK industry (AEH Innovative Hydrogel, Ltd, UK) on Development of Smart Graphene-based Hydrogel for Biosensors Grant Code: 600-RMC 5/3/GRR (008/2020)	GRR UiTM	30,000	Member	2020 – 2022
20	Compression and degradation characteristics of zinc hydroxapatite ceramic as bio-implant material Grant Code: 600-IRMI/PERDANA 5/3 BESTARI (070/2018)	BESTARI UiTM	30,000	Member	2018 – 2019
21	Parison mould design and process parameters to produce high quality plastic bottles Grant Code: 600-IRMI/MyRA 5/3/BESTARI (019/2017)	BESTARI UiTM	40,000	Member	2017 – 2019
22	Characteristics of light weight aluminium foam-GFRP interlocking sandwich panel Grant Code: 600-IRMI/DANA 5/3/BESTARI (0006/2016)	BESTARI UiTM	35,000	Member	2016 – 2017
23	Bovine skin bio- mechanical characterisation Part 3 Grant Code: 600-RMI/DANA 5/3/CIFI (36/2013)	CIFI UiTM	60,000	Member	2013 – 2015
24	Suction-stretch theory in synthesising composite membrane hyperelasticity Part 2	PSI UiTM	60,000	Member	2013 – 2015
25	Damage characteristics of kevlar/fibreglass/nanosilica hybrid composites Part 2 Grant Code: 600-RMI/DANA 5/3/PSI (361/2013)	PSI UiTM	60,000	Mentor & Member	2013 – 2015
26	Characterisation of advanced carbon fibre laminates Part 2 Grant Code: 600-RMI/DANA 5/3/PSI (337/2013)	PSI UiTM	60,000	Mentor & Member	2013 – 2015
27	Compressive properties of a novel fibre reinforced polymer composite laminates Grant Code: 600-RMI/DANA 5/3/RIF (318/2012)	RIF UiTM	32,000	Mentor & Member	2012 – 2014
28	Development of high impact resistance laminates using nanomaterials Grant Code: 600-RMI/DANA 5/3/RIF (612/2012)	RIF UiTM	32,000	Mentor & Member	2012 – 2014
29	Energy storage performance of stabilized phase change materials (PCM)/ thermoplastic composites Grant Code: 600-RMI/DANA 5/3/RIF (124/2012)	RIF UiTM	32,000	Member	2012 – 2014
30	Processing and characterization of highly porous copper for thermal management applications (TMA's) Grant Code: 600-RMI/DANA 5/3/RIF (200/2012)	RIF UiTM	32,000	Member	2012 – 2014
31	Failure mechanisms and hybrid effects of oil palm empty fruit bunch (OPEFB) fibre filled polymer-clay nanocomposites Grant Code: 600-RMI/DANA 5/3/RIF (657/2012)	RIF UiTM	32,000	Member	2012 – 2014
32	Characterization and mechanical testing of ti-6ai-4v green part mixed with palm stearin binder system using metal injection moulding (MIM) process Grant Code: 600-RMI/DANA 5/3/RIF (10/2012)	RIF UiTM	32,000	Member	2012 – 2014
33	Study on stability of a novel binder system based on palm oil in metal injection moulding (MIM) application Grant Code: 600-IRDC/ST 5/3/990	Short Term Grant UiTM	12,000	Member	2005 - 2006
34	Optimization of gating system design in casting iron component by casting simulation	Short Term Grant	26,000	Member	2004 - 2005

	Grant Code: 600-IRDC/ST 5/3/859	UiTM			
35	Application of shot peening process to improve fatigue life of automotive valves Grant Code: 600-BRC/ST 5/3/604	Short Term Grant UiTM	20,000	Member	2003 - 2004
36	Failure analysis of fiber reinforced composite materials used in malaysia industries Grant Code: 600-BRC/ST 5/3/497	Short Term Grant UiTM	10,000	Member	2002 - 2003

D. PUBLICATIONS: JOURNAL / PROCEEDINGS/ BOOK / CHAPTER IN BOOK / EDITORS

D.1 Impact Factor Wos/Scopus Indexed Journal Papers (JCR WoS Impact Factor (IF) Journals)

No	Authors	Document title	Journal Title & Details	Publication Date/Year	Indexed in
1	Nurina Adriana Abdul Razak, Nur Hidayati Othman, Muhammad Shafiq Mat Shayuti, Aidah Jumahat, Napisah Sapiai, Woei Jye Lau	Agricultural and industrial waste-derived mesoporous silica nanoparticles: A review on chemical synthesis route	Journal of Environmental Chemical Engineering, Vol. 10, Issue 2, Article number 107322, ISSN 22133437, DOI 10.1016/j.jece.2022.107322, Elsevier	April 2022	WoS Q1 IF=5.909 & Scopus Q1
2	Anis Adilah Abu Talib, Aidah Jumahat, Mohammad Jawaid, Napisah Sapiai, Rajini Nagarajan	Wear properties of nanoclay modified basalt fibre composites under dry adhesive sliding, two-body abrasive, and slurry pot erosive	Polymer Bulletin, https://doi.org/10.1007/s00289-021-04044-7 , Springer	11 Jan 2022	WoS Q2 IF=2.87 & Scopus Q2
3	Napisah Sapiai, Aidah Jumahat, Mohammad Jawaid, Md Zin Abu, Mochamad Chalid	Mechanical Performance of Granite Fine Fly Dust-Filled Basalt/Glass Polyurethane Polymer Hybrid Composites	Polymers, 13(18), pp. 1–16, Article no. 3032, doi: 10.3390/polym13183032 ISSN 2073-4360, MDPI	8 Sept 2021	WoS Q1 IF=4.493 & Scopus Q1
4	Ummu Raihanah Hashim, Aidah Jumahat, Mohammad Jawaid	Mechanical Properties of Hybrid Graphene Nanoplatelet-Nanosilica Filled Unidirectional Basalt Fibre Composites	Nanomaterials, Vol. 11(6), pp. 1-17, Paper no. 1468. https://doi.org/10.3390/nano11061468 , ISSN: 2079-4991, MDPI	1 June 2021	WoS Q1, I.F. 5.346, & Scopus Q1
5	Anis Adilah Abu Talib, Aidah Jumahat, Mohammad Jawaid, Napisah Sapiai, Alcides Lopes Leao	Effect of Wear Conditions, Parameters and Sliding Motions on Tribological Characteristics of Basalt and Glass Fibre Reinforced Epoxy Composites	Materials, Vol. 14(3), pp. 1-18, Paper no. 701. https://doi.org/10.3390/ma14030701 ISSN 1996-1944, MDPI	2 Feb. 2021	WoS Q1, I.F. 3.92, & Scopus Q2
6	Napisah Sapiai, Aidah Jumahat, Mohammad Jawaid, Carlo Santulli	Abrasive Wear Behavior of CNT-Filled Unidirectional Kenaf-Epoxy Composites	Processes, 9(1), 1-15, Paper no. 128, https://doi.org/10.3390/pr9010128 ISSN 2227-9717, MDPI	8 January 2021	WoS Q3, I.F. 2.847, & Scopus Q3
7	Napisah Sapiai, Aidah Jumahat, Mohammad Jawaid, Anish Khan	Effect of MWCNT surface functionalisation and distribution on compressive properties of kenaf and hybrid kenaf/glass fibres reinforced polymer composites	Polymers, 12(11), pp. 1–18, 2522, doi:10.3390/polym12112522 ISSN 2073-4360, MDPI	29 Oct. 2020	WoS Q1 IF=4.493 & Scopus Q1
8	Ummu Raihanah Hashim, Aidah Jumahat, Mohammad Jawaid, Rudi Dungani, Salman Alamery	Effects of accelerated weathering on degradation behavior of basalt fiber reinforced polymer nanocomposites	Polymers, 12(11), pp. 1–16, 2621, doi:10.3390/polym12112621 ISSN 2073-4360, MDPI	6 Nov. 2020	WoS Q1 IF=4.493 & Scopus Q1
9	Napisah Sapiai, Aidah Jumahat, Mohammad Jawaid, Mohamad Midani, Anish Khan	Tensile and flexural properties of silica nanoparticles modified unidirectional kenaf and hybrid glass/kenaf epoxy composites	Polymers, 12(11), pp. 1–11, 2733, doi:10.3390/polym12112733 ISSN 2073-4360, MDPI	18 Nov. 2020	WoS Q1 IF=4.493 & Scopus Q1
10	Ummu Raihanah Hashim, Aidah Jumahat & Jamaluddin Mahmud.	Improved Tensile Properties of Basalt Fibre Reinforced Polymer Composites Using Silica Nanoparticles.	Materialwissenschaft Und Werkstofftechnik, (Material Science and Engineering Technology), Vol. 50(9),	Sept. 2019	WoS Q4, I.F. 0.854 & Scopus Q3

			pp.1149-1155. DOI 10.1002/mawe.201800071 ISSN 15214052, 09335137, Publisher Wiley		
11	Ummu Raihanah Hashim, Aidah Jumahat	Improved tensile and fracture toughness properties of graphene nanoplatelets filled epoxy polymer via solvent compounding shear milling method	Materials Research Express, Vol. 6(2),025303, https://doi.org/10.1088/2053-1591/aaef0 , ISSN 20531591, IOP Publishing Ltd.	2019	WoS Q4, I.F. 1.62 & Scopus Q2
12	Norazean Shaari, Aidah Jumahat	Unhole and open hole compressive behaviours of hybrid Kevlar/glass fibre reinforced silica nanocomposites	Materials Research Express, Vol. 5(6),065009, https://doi.org/10.1088/2053-1591/aac667 , ISSN 20531591, IOP Publishing Ltd.	6 June 2018	WoS Q4, I.F. 1.62 & Scopus Q2
13	Napisah Sapiai, Aidah Jumahat, Jamaluddin Mahmud	Mechanical properties of functionalised CNT filled kenaf reinforced epoxy composites	Materials Research Express, Vol. 15(4),045034, https://doi.org/10.1088/2053-1591/aabb63 , ISSN 20531591, IOP Publishing Ltd.	18 April 2018	WoS Q3, I.F. 1.929 & Scopus Q2
14	Nor Shamimi Shaari Jamaliah Md Said Aidah Jumahat Muhammad Hussain Ismail	Wear behaviour of copper/carbon nanotubes	Industrial Lubrication and Tribology, Vol. 69(3), pp. 342-347, ISSN: 0036-8792 eISSN: 1758-5775, Emerald Group Publishing Doi: 10.1108/ILT-09-2016-0198	2017	WoS Q4, IF 1.297 & Scopus Q2
15	N. Muhammad, A. Jumahat, M. H. Hamzah, J. Mahmud	Design and fabrication of compression test rig for fibre-reinforced polymer composites	Materials Research Innovations, Vol. 18, pp. 232-235, ISSN 1433075X, 14328917	2014	WoS Q4, IF 0.83 & Scopus Q3
16	A. Jumahat, W. W. Amir, C. Soutis, S. Kasolang	Flexural response of nanoclay-modified epoxy polymers	Materials Research Innovations, Vol. 18, pp. 285-290, ISSN 1433075X, 14328917	2014	WoS Q4, IF 0.83 & Scopus Q3
17	U. R. Hashim, A. Jumahat, M. H. Ismail, R. N. M. Razali	Fabrication and characterisation of carbon fibre reinforced polymer rods with aluminium foam core	Materials Research Innovations, Vol. 18, pp. 204-208, ISSN 1433075X, 14328917	2014	WoS Q4, IF 0.83 & Scopus Q3
18	A. Jumahat, N. R. Zamani, C. Soutis, N. R. N. Roseley	Thermogravimetry analysis of nanosilica-filled epoxy polymer	Materials Research Innovations, Vol. 18, pp. 279-284, ISSN 1433075X, 14328917	2014	WoS Q4, IF 0.83 & Scopus Q3
19	Jumahat, A., Soutis, C., Jones, F.R., Hodzic, A.	Compressive behaviour of nanoclay modified aerospace grade epoxy polymer	Plastics, Rubber and Composites, Vol. 41(6), pp. 225-232, ISSN 17432898, 14658011	Jul. 2012	WoS Q3, IF 2.021 & Scopus Q2
20	Jumahat, A., Soutis, C., Hodzic, A.	A graphical method predicting the compressive strength of toughened unidirectional composite laminates	Applied Composite Materials, Vol. 18(1), pp. 65-83,	2011	WoS Q3, IF 2.181 & Scopus Q2
21	Jumahat, A., Soutis, C., Jones, F.R., Hodzic, A.	Improved compressive properties of a unidirectional CFRP laminate using nanosilica particles	Advanced Composites Letters, Vol. 19(6), pp. 204-207	2010	WoS Q4, IF 0.978 & Scopus Q3
22	Jumahat, A., Soutis, C., Jones, F.R., Hodzic, A.	Effect of silica nanoparticles on compressive properties of an epoxy polymer	Journal of Materials Science, Vol. 45(21), pp. 5973-5983	2010	WoS Q2, IF 4.22 & Scopus Q1
23	Jumahat, A., Soutis, C., Jones, F.R., Hodzic, A.	Fracture mechanisms and failure analysis of carbon fibre/toughened epoxy composites subjected to	Composite Structures, Vol. 92(2), pp. 295-305	2010	WoS Q1, IF 5.536 & Scopus Q1

		compressive loading		
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D.2 WoS / Scopus Indexed Journal Papers

No	Authors	Document title	Journal Title & Details	Publication Date/Year	Indexed in
1	Aidah Jumahat, Napisah Sapiai and Mohamad Nasron Mubin	Low-Velocity Impact Response of Glass-Galvanized Iron Fiber Metal Laminates	International Transaction Journal of Engineering Management & Applied Sciences & Technologies, Vol. 12(9), pp. 1-11, DOI 10.14456/ITJEMAST.2021.170, ISSN 2228-9860, Publisher TUENGR Group	26 Oct. 2021	WoS
2	Ummu Raihanah Hashim, Aidah Jumahat, Raja Mazuir Raja Ahsan Shah, Luqman Hakim Abu Hassan	Tensile and Flexural Properties of Thermoplastic Filled Fibre Reinforced Polymer Composites	International Transaction Journal of Engineering Management & Applied Sciences & Technologies, Vol. 12(9), pp. 1-10, DOI 10.14456/ITJEMAST.2021.183, ISSN 2228-9860, Publisher TUENGR Group	9 July 2021	WoS
3	Muhammad Aizuddin Mohamad, Aidah Jumahat, Nor Hayati Abdul Hamid, Napisah Sapiai, Mochamad Chalid	Dynamic Mechanical Analysis of Al Mesh and Granite Dust-filled Polyester Basalt/Glass Hybrid Laminates	International Transaction Journal of Engineering Management & Applied Sciences & Technologies, Vol. 12(9), pp. 1-12, DOI 10.14456/ITJEMAST.2021.188, ISSN 2228-9860, Publisher TUENGR Group	15 July 2021	WoS
4	Swapnil Sawant, Raja Mazuir Raja Ahsan Shah, Mostafiz Rahman, Abd Rashid Abd Aziz, Steve Smith, Aidah Jumahat	System Modelling of an Electric Two-Wheeled Vehicle for Energy Management Optimization Study	Evergreen, Vol. 8(3), Pages 642 – 650, DOI 10.5109/4491656 ISSN 21890420, Publisher: Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy	6 Sept. 2021	Scopus Q3
5	Nor Shamimi Shaari, Muhammad Hussain Ismail, Aidah Jumahat, Russell Goodall	Sintering and Dimensional Analysis of Cu/CNTs via a Powder Metallurgy Route	Journal of Mechanical Engineering, 17(3), pp. 117–130 ISSN 1823-5514, eISSN 2550-164X, UiTM Press	15 Oct. 2020	Scopus Q3
6	Nurul Emi Nor Ain Mohammad, Aidah Jumahat, Anthony Arthur, Mohd Fadzli Bin Ismail	Impact Properties of Nanomodified Basalt Fiber Reinforced Polymer Composites	International Journal of Engineering and Advanced Technology, Vol. 9(1), pp. 5839-5844, DOI: 10.35940/ijeat.A3014.109119, ISSN: 2249 – 8958	Oct. 2019	Scopus Q4
7	Aidah Jumahat, Nurul Ain Haris, Fatin Najwa Che Mohamad	Slurry Pot Erosion Wear of Nanoclay-Modified Short Fiber Reinforced Polymer (SFRP) Composites	International Journal of Engineering and Advanced Technology, Vol. 9(1), pp. 5832-5838, DOI: 10.35940/ijeat.A3013.109119, ISSN 22498958	Oct. 2019	Scopus Q4
8	Aidah Jumahat, Adila Nalisa Mohd Roslan, Napisah Sapiai, Husna Zaemah Ramlan	Quasi-Static Indentation Behavior of Nanoclay-Chopped Carbon Fibres Composites	International Journal of Engineering and Advanced Technology, Vol. 9(1), pp. 5803-5807, DOI: 10.35940/ijeat.A3008.109119, ISSN: 2249 – 8958	Oct. 2019	Scopus Q4
9	Aidah Jumahat, Ilya Izyan Shahrul Azhar, Napisah Sapiai, Noor Farizza Romli, Mohamad Aizat Aminuldin	Enhancing The Mechanical Properties of Chopped Basalt Composites by Incorporating of Multiwall Carbon Nanotubes	International Journal of Engineering and Advanced Technology, Vol. 9(1), pp. 5646-5650, DOI: 10.35940/ijeat.A3040.109119,	Oct. 2019	Scopus Q4

			ISSN: 2249 – 8958		
10	Masaki Hozumi, Aidah Jumahat, Napisah Sapiai, Zuraidah Salleh	Effect of Fibre Architecture on Impact Response of Glass-Aluminium Fibres Metal Laminates (FML)	International Journal of Engineering and Advanced Technology, Vol. 9(1), pp. 5639-5645, DOI: 10.35940/ijeat.A3039.109119, ISSN: 2249 – 8958	Oct. 2019	Scopus Q4
11	Norazean Shaari, Dinesh Nadarajah, Nor Shamimi Shaari, Aidah Jumahat	Impact Strength of Glass/Kevlar Fiber Hybrid Composites with Various Stacking Sequences and Impact Energies	International Journal of Engineering and Advanced Technology, Vol. 8(6), pp. 4286-4293, DOI: 10.35940/ijeat.F9211.088619, ISSN: 2249 – 8958	Aug. 2019	Scopus Q4
12	Aidah Jumahat, Anis Adillah Abu Talib, Tengku Faizuddin T Mohd Azmi, Mohamed Adzummar Hakim Abdull Adziz.	Wear Properties of Nanoclay-Modified Short Basalt Fiber Reinforced Polymer Composites.	International Journal of Recent Technology and Engineering, Vol. 8(1), pp. 3181-3185, ISSN: 2277-3878	May 2019	Scopus Q4
13	Aidah Jumahat, Napisah Sapiai, Muhammad Aizat Aminuldin, Anizah Kalam.	The Effect of Nanoclay and Carbon Nanotubes Addition on Fracture Toughness Properties of Chopped Kenaf Fibres Reinforced Composites.	International Journal of Recent Technology and Engineering, ISSN: 2277-3878, Vol. 8(1), pp. 3196-3200, ISSN: 2277-3878	May 2019	Scopus Q4
14	Nurul Emi Nor Ain Mohammad, Aidah Jumahat, Anthony Arthur	Effect of silica nanoparticles on quasistatic indentation and impact properties of glass fibre reinforced epoxy polymer composites	International Journal of Engineering and Technology(UAE), Vol. 7(4), 2018, pp. 51-54, ISSN 2227524X	2018	Scopus Q4
15	Norhashidah Manap, Aidah Jumahat, Muhammad Arif bin Ismail	Unidirectional and transverse tensile properties of nanoclay filled Kenaf/Glass fibre hybrid composites	International Journal of Engineering and Technology(UAE), Vol. 7(4), 2018, pp. 60-64, ISSN 2227524X	2018	Scopus Q4
16	Ummu Raihanah Hashim, Aidah Jumahat, Muhammad Fashan Md Ghazali	Quasi-static indentation properties of aluminium foam-FRP sandwich panel	International Journal of Engineering and Technology(UAE), Vol. 7(3), 2018, pp. 193-196, ISSN 2227524X	2018	Scopus Q4
17	Nurul Emi Nor Ain Mohammad, Aidah Jumahat, Ummu Raihanah Hashim, Nur Syarah Iffah Azizi	Flexural behaviour of nanoclay filled chopped basalt and glass fibres composites	International Journal of Engineering and Technology(UAE), Vol. 7(4), 2018, pp. 42-45, ISSN 2227524X	2018	Scopus Q4
18	Aidah Jumahat, Anis Adilah Abu Talib, Tg Faizuddin Tg Mohd Azmi, M Adzummar Hakim Abdull Adziz	Adhesive and abrasive wear properties of nanoclay-modified chopped kenaf fiber reinforced polymer composites	International Journal of Engineering and Technology(UAE), Vol. 7(4), 2018, pp. 55-59, ISSN 2227524X	2018	Scopus Q4
19	Nurul Emi Nor Ain Mohammad, Aidah Jumahat, Mohamad Fashan Ghazali	Impact properties of aluminum foam - nanosilica filled basalt fiber reinforced polymer sandwich composites	International Journal of Engineering and Technology(UAE), Vol. 7(3), 2018, pp. 77-83, ISSN 2227524X	2018	Scopus Q4
20	Y.M Taib, Z. Salleh, N. R. N. M. Masdek, A. Jumahat, A. Kalam, M.Z. Abu	Electrodeposition of Co-Ni-Fe on railway fastener	International Journal of Engineering and Technology(UAE), Vol. 7(4), 2018, pp. 46-50, ISSN 2227524X	2018	Scopus Q4
21	Ahmad Fuad Ab Ghani, Ghazali Omar, Muhammad Zaki Sulaiman, Aidah	Elasticity deformation and failure modes behavior of hybrid composite CFRP/GFRP under tensile loading	International Journal of Advanced and Applied Sciences, Vol. 5 No. 3, 2018, pp. 98-106,	2018	WoS

	Jumahat, Jamaluddin Mahmud		https://doi.org/10.21833/ijaas.2018.03.014 , ISSN: 2313-626X, 2313-3724		
22	A.F Ab Ghani, M R Mansor, MZ Selamat, A Jumahat, J Mahmud	The novel digital image correlation technique in predicting behaviour and failure of hybrid composite	Journal of Telecommunication, Electronic and Computer Engineering, Vol. 10(2-8), pp. 125-129, eISSN: 2289-8131	2018	Scopus Q4
23	R. J. Talib, M. A. Selamat, N. A. Nordin, A. Jumahat, H. Sharudin, A. M. Zaharudin	Aptness of kenaf powder as a friction modifier in the fabrication of brake friction material by powder metallurgy route	Jurnal Tribologi, Vol. 19, pp. 121-131, eISSN: 2289-7232	2018	WoS
24	Aidah Jumahat, Napisah Sapiai, Eliya Farah Hana Mohd Kamal	Effect of Acid and Silane Treated Carbon Nanotubes on Wear Properties of Epoxy Polymer Composite	Pertanika Journal of Science & Technology, Vol. 25(S3), pp. 213-222, ISSN 01287680	Mac 2017	WoS & Scopus Q3
25	Anis Adilah Abu Talib, Aidah Jumahat, Napisah Sapiai, Ahmad Shahrul Mohd Roslan	Wear Properties of Carbon Nanotubes Filled Epoxy Polymers and Woven Glass Fiber Reinforced Polymer Composites	Pertanika Journal of Science & Technology, Vol. 25(S3), pp. 201-212, ISSN 01287680	Mac 2017	WoS & Scopus Q3
26	Najiy Rizal Suriani Rizal, Azuddin Mamat, Aidah Jumahat	Analysis of Fill Time and Injection Pressure of Multiple 20g Parisons during Injection Moulding Process	Pertanika Journal of Science & Technology, Vol. 25(S3), pp. 233-240, ISSN 01287680	Mac 2017	WoS & Scopus Q3
27	Muhamad Faris Syafiq Khalid, Aidah Jumahat, Zuraidah Salleh, Mohammad Jawaid	Flexural Properties of Random and Unidirectional Arenga Pinnata Fibre Reinforced Epoxy Composite	Pertanika Journal of Science & Technology, Vol. 25(S4), pp. 93-102, ISSN 01287680	April 2017	WoS & Scopus Q3
28	Aidah Jumahat, Anis Adilah Abu Talib, Eliya Farah Hana Mohd Kamal, Muhammad Tarmizi Sulaiman and Ahmad Syahrul Mohd Roslan	Effects of Environment and Fibre Architecture on Wear Properties of Nano-Filled Epoxy Polymer Composite	Pertanika Journal of Science & Technology, Vol. 25(S4), pp. 345-354, ISSN 01287680	April 2017	WoS & Scopus Q3
29	Najiy Rizal Suriani Rizal, Muhammad Ameer Rosman, Aidah Jumahat, Noriah Yusoff	Investigation of the Injection Moulding Plastic Flows Behaviour of PET Cylindrical Containers with Multiple-Cavity Mould	Pertanika Journal of Science & Technology, Vol. 25(S7), pp. 239-250, ISSN 01287680	July 2017	WoS & Scopus Q3
30	Aidah Jumahat, Muhamad Faris Syafiq Khalid, Zuraidah Salleh, Mohammad Jawaid	Tensile and Compressive Properties of Unidirectional Arenga Pinnata Fibre Reinforced Epoxy Composite	Pertanika Journal of Science & Technology, Vol. 25(S7), pp. 299-308, ISSN 01287680	July 2017	WoS & Scopus Q3
31	Norazean Shaari, Aidah Jumahat	Hole Size Effects on the Open Hole Tensile Properties of Woven Kevlar-Glass Fibre Hybrid Composite Laminates	Pertanika Journal of Science & Technology, Vol. 25(S7), pp. 309-318, ISSN 01287680	July 2017	WoS & Scopus Q3
32	Mohd Fadzli Ismail, Aidah Jumahat, Ummu Raihanah Hashim, Anizah Kalam	Aluminium Foam Sandwich Panel with Hybrid FRP Composite Face-sheets: Flexural properties	Pertanika Journal of Science & Technology, Vol. 25(S8), pp. 85-94, ISSN 01287680	Aug. 2017	WoS & Scopus Q3
33	Anizah Kalam, Rahilah Kamarudzaman, Koay Mei Hyie, Aidah Jumahat, Noor Leha Abdul Rahman	The Role of Secondary Filler on the Fracture Toughness and Impact strength of HDPE/Clay Nanocomposites	Pertanika Journal of Science & Technology, Vol. 25(S8), pp. 95-104, ISSN 01287680	Aug. 2017	WoS & Scopus Q3
34	Ahmad Fuad Ab Ghani, Nurul Najwa, Zulkefli Selamat, Yongtao Lu, Aidah Jumahat & Jamaluddin Mahmud	Numerical Study of Hybrid Composite CFRP/GFRP	ARN Journal of Engineering and Applied Sciences. Vol. 12, No. 24, pp. 7186-7191, ISSN:1819-6608	Dec. 2017	Scopus Q2

35	A. Jumahat, S. Kasolang, M.T. Bahari.	Wear properties of nanosilica filled epoxy polymers and FRP composites	Jurnal Tribologi, Vol. 6, pp.24-36, eISSN: 2289-7232	Sept. 2015	WoS
36	Norhashidah Manap, Aidah Jumahat, Napisah Sapiai	Effect of nanosilica content on longitudinal and transverse tensile properties of unidirectional kenaf composite	Jurnal Teknologi, Vol. 76(11), pp. 123-130, eISSN 21803722	20 Oct. 2015	Scopus Q2
37	Norhashidah Manap, Aidah Jumahat, Napisah Sapiai	Effect of fibre treatment on longitudinal and transverse tensile properties of unidirectional kenaf composite	Jurnal Teknologi, Vol. 76(11), pp. 87-95, eISSN 21803722	20 Oct. 2015	Scopus Q2
38	Nor Fazli Adull Manan, Jamaluddin Mahmud, Aidah Jumahat	Biomechanical behaviour of bovine skin: An experiment-theory integration and finite element simulation	Jurnal Teknologi, Vol. 76(10), pp. 103-111, eISSN 21803722	15 Oct. 2015	Scopus Q2
39	Norhafiza Muhammad, Aidah Jumahat, Nor Merlisa Ali	Effect of hybridization on compressive properties of woven carbon, glass and kevlar hybrid composites	Jurnal Teknologi, Vol. 76(9), pp. 75-80, eISSN 21803722	1 Oct. 2015	Scopus Q2
40	Widia Wahyuni Amir, Aidah Jumahat, Jamaluddin Mahmud	Effect of nanoclay content on flexural properties of glass fiber reinforced polymer (GFRP) composites	Jurnal Teknologi, Vol. 76(3), pp. 31-35, eISSN 21803722	20 Sept. 2015	Scopus Q2
41	Norazean Shaari, Aidah Jumahat, M. Khafiz M. Razif	Impact resistance properties of Kevlar/glass fiber hybrid composite laminates	Jurnal Teknologi, Vol. 76(3), pp. 93-99, eISSN 21803722	20 Sept. 2015	Scopus Q2
42	Napisah Sapiai, Aidah Jumahat, Jamaluddin Mahmud	Flexural and tensile properties of kenaf/glass fibres hybrid composites filled with carbon nanotubes	Jurnal Teknologi, Vol. 76(3), pp. 115-120, eISSN 21803722	20 Sept. 2015	Scopus Q2
43	Napisah Sapiai, Aidah Jumahat, Norhashidah Manap, Mohd Aidil Idham Usoff	Effect of nanofillers dispersion on mechanical properties of clay/epoxy and silica/epoxy nanocomposites	Jurnal Teknologi, Vol. 76(9), pp. 107-111, eISSN 21803722	1 Oct. 2015	Scopus Q2
44	Norazean Shaari, Aidah Jumahat, Shahrul Azam Abdullah, Ahmad Zariif Hadderi	Effect of hybridization on open-hole tension properties of woven Kevlar/glass fiber hybrid composite laminates	Jurnal Teknologi, Vol. 76(9), pp. 91-96, eISSN 21803722	1 Oct. 2015	Scopus Q2
45	Najiy Rizal Suriani Rizal, Aidah Jumahat, Ummu Raihanah Hashim, Mohd Sobri Omar	Effect of pet parison size on injection moulding mould design	Jurnal Teknologi, Vol. 76(6), pp. 115-119, eISSN 21803722	1 Oct. 2015	Scopus Q2
46	Mohd Fadzli Ismail, Aidah Jumahat, Bulan Abdullah, Ummu Raihanah Hashim and Shafika Elia Ahmad Aseri	Investigation on energy absorption of aluminium foam-CFRP sandwich panel subjected to impact loading	Jurnal Teknologi, Vol. 75(8), pp. 113-116, eISSN 21803722	20 Aug. 2015	Scopus Q2
47	Mohamad Ali Ahmad, Salmiah Kasolang, R. S. Dwyer-Joyce, Aidah Jumahat	The effects of oil supply pressure at different groove position on temperature and pressure profile in journal bearing	Jurnal Teknologi (Sciences and Engineering), Vol. 66(3), pp. 113-119, eISSN 2180-3722	2014	WoS & Scopus Q2
48	Napisah Sapiai, Aidah Jumahat, R.N. Hakim	Tensile and compressive properties of hybrid carbon fiber/kenaf polymer composite	Advances in Environmental Biology, Vol. 8(8 SPEC. ISSUE 3), pp. 2655-2661, ISSN 19950756, 19981066	2014	Scopus Q4
49	Norazean Shaari, Aidah Jumahat, M.A Afiq M. Ikhsan	Design and fabrication of high shear milling machine for nanocomposites	Advances in Environmental Biology, Vol. 8(8 SPEC. ISSUE 3), pp. 2736-2741, ISSN 19950756, 19981066	2014	Scopus Q4
50	Norhashidah Manap,	Tensile and compressive	Advances in Environmental	2014	Scopus Q4

	Aidah Jumahat, A.Ludin	properties of glass reinforcement in kenaf reinforced epoxy composite	Biology, Vol. 8(8 SPEC. ISSUE 3), pp. 2673-2681, ISSN 19950756, 19981066		
51	U.R. Hashim, A.H. Nordin, A. Jumahat, M.H. Ismail	Compressive properties of glass fibre reinforced polymer (GFRP) rod with aluminium foam core	Advances in Environmental Biology, Vol. 8(8 SPEC. ISSUE 3), pp. 2780-2785, ISSN 19950756, 19981066	2014	Scopus Q4
52	Norazean Shaari, Aidah Jumahat, Khaleel H. Yahya, M. Faizal Sulaiman	Impact resistance of woven fiber reinforced polymer composites	Advances in Environmental Biology, Vol. 8(8 SPEC. ISSUE 3), pp. 2662-2668, ISSN 19950756, 19981066	2014	Scopus Q4

D.3 WoS / Scopus Indexed Journal Papers (In press - Accepted for publication)

No	Authors	Document title	Journal Title & Details	Publication Date/Year	Indexed in
1	Muhammad Aizuddin Mohamad, Aidah Jumahat, Napisah Sapiai	Flexural Analysis of Hemp, Kenaf and Glass Fibre Reinforced Polyester Resin	Physical Sciences Reviews, ISSN: 2365-659X, Publisher Walter De Gruyter, Germany	Accepted for publication April 2022	WoS & Scopus
2	Mohamad Asrofi Muslim, Aidah Jumahat, Shahrul Azam Abdullah, Mohd Azrul Jaafar, Napisah Sapiai, Raymond Siew Teng Loy	Investigation on impact properties of different type of fibre form: hybrid hemp/glass and kenaf/glass composites	Physical Sciences Reviews, ISSN: 2365-659X, Publisher Walter De Gruyter, Germany	Accepted for publication April 2022	WoS & Scopus
3	Mohd Azrul Jaafar, Shahrul Azam Abdullah, Aidah Jumahat, Mohamad Asrofi Muslim, Napisah Sapiai, Raymond Siew Teng Loy	Effect of stacking sequencing on tensile properties of glass, hemp and kenaf hybrid composites	Physical Sciences Reviews, ISSN: 2365-659X, Publisher Walter De Gruyter, Germany	Accepted for publication April 2022	WoS & Scopus
4	Ilya Izyan Shahrul Azhar, Aidah Jumahat, Jamaliah Md Said, Ramzi Kiari, Muhammad Afnan Jamal Abd Nasir	Maximum Quasi-Static Indentation Stress Analysis of Flax/Epoxy and Glass/Epoxy Polymer Composites	International Journal of Integrated Engineering, ISSN:2229-838X, Publisher Penerbit UTHM	Accepted for publication May 2022	WoS & Scopus
5	Jamaliah Md Said, Aidah Jumahat, Ilya Izyan Shahrul Azhar, Nurul Faezah Binti Azlan	Maximum Bending Stress Analysis of Jute/Epoxy and Glass/Epoxy Polymer Composites	International Journal of Integrated Engineering, ISSN:2229-838X, Publisher Penerbit UTHM	Accepted for publication May 2022	WoS & Scopus
6	J.M. Said, A. Jumahat, Jamaluddin Mahmud, M.F.S. Khalid	Failure Evaluation of Arenga Pinnata/Nanosilica Epoxy Composite Laminate under Uniaxial Tension and Compression using ANSYS	Applied Science and Engineering Progress; ISSN: 2672-9156, Publisher King Mongkut's University of Technology North Bangkok (KMUTNB)	Accepted for publication Nov 2021	Scopus
7	Ilya Izyan Shahrul Azhar, Aidah Jumahat, Jamaliah Md Said, Muhammad Badrul Amin Mohd Radi	Modelling and Simulation of Quasistatic indentation and Impact resistance of Arenga Pinnata/Nanosilica Epoxy Composite	Applied Science and Engineering Progress; ISSN: 2672-9156, Publisher King Mongkut's University of Technology North Bangkok (KMUTNB)	Accepted for publication Nov 2021	Scopus
8	Mohd Fadzli Ismail, Muhamad Faris Syafiq Khalid, Aidah Jumahat	Experimental Performance Evaluation of Arenga Pinnata Reinforced Nanosilica-Modified Epoxy Composite loaded in Compression	Applied Science and Engineering Progress; ISSN: 2672-9156, Publisher King Mongkut's University of Technology North Bangkok (KMUTNB)	Accepted for publication Nov 2021	Scopus
9	Muhamad Faris Syafiq Khalid, Aidah Jumahat, Mohd Fadzli Ismail, Jamaliah Md Said	Effect of Nanosilica Modified Epoxy on Tensile Properties of Arenga Pinnata Polymer Composite	Applied Science and Engineering Progress; ISSN: 2672-9156, Publisher King Mongkut's University of Technology North Bangkok	Accepted for publication Nov 2021	Scopus

			(KMUTNB)		
10	Azlin Binti Sa'adan, Aidah Jumahat, Jamaliah Md Said	Maximum flexural stress analysis of Hemp/Epoxy and Glass/Epoxy Polymer Composite via ANSYS Simulation	International Transaction Journal of Engineering Management & Applied Sciences & Technologies, ISSN 2228-9860, Publisher TUENGR Group	Accepted for publication Jan 2022	WoS
11	Sabreena Wam, Aidah Jumahat, Jamaliah Md Said	Modelling and Simulation of Quasi-static Indentation of Kenaf/Epoxy Composite	International Transaction Journal of Engineering Management & Applied Sciences & Technologies, ISSN 2228-9860, Publisher TUENGR Group	Accepted for publication Jan 2022	WoS

D.4 Non-Indexed Journal Papers (Refereed Journal Papers)

No	Authors	Document title	Journal Title & Details	Publication Date/Year
1	Aidah Jumahat, Mohamad Nasron Mubin Mohamad Nasir	Quasi-Static Indentation Response of Galvanized Iron Toughened Glass Fiber/Epoxy Laminates	International Journal of Innovative Technology and Exploring Engineering, Vol. 9(3), pp. 2830-2834, DOI: 10.35940/ijitee.C9222.019320 ISSN: 2278-3075	3 Jan. 2020
2	Mohd Fadzli Bin Ismail, Aidah Jumahat	Impact Properties of Hybrid Fibre Reinforced Polymer Composite Laminates	International Journal of Innovative Technology and Exploring Engineering, Vol. 9(3), pp. 2757-2762, DOI: 10.35940/ijitee.C9206.019320 ISSN: 2278-3075	3 Jan. 2020
3	Najiy Rizal Suriani Rizal, Aidah Jumahat, Nor Hafiez Mohamad Nor	Fill Time Analysis of 8 Cavities Parison Mould using Taguchi Method	International Journal of Innovative Technology and Exploring Engineering, Vol. 9(3), pp. 2763-2766, DOI: 10.35940/ijitee.C9205.019320 ISSN: 2278-3075	3 Jan. 2020
4	Farizah Adliza Ghazali, Norazwani Mohd Zain, Zuraidah Salleh, Ya'kub Md Taib, Aidah Jumahat	Resistance Spot Weld assisted with Adhesive Bonding	International Journal of Recent Technology and Engineering, Vol. 8(4), pp. 6978-6982, DOI:10.35940/ijrteD5188.118419, ISSN: 2277-3878	Nov. 2019
5	Aidah Jumahat, Muhammad Naim Najib, Napisah Sapiai	Woven and Unidirectional Glass-Aluminium Fibre Metal Laminates (FML): Quasi-Static Indentation Properties	International Journal of Recent Technology and Engineering, Vol. 8(4), pp. 6906-6911, DOI:10.35940/ijrteD5175.118419, ISSN: 2277-3878	Nov. 2019
6	Nurul Emi Nor Ain Mohammad, Aidah Jumahat	Effects Of Kenaf And Basalt Facesheets Modified Nanosilica Of Closed Cell Aluminium Sandwich Panel	International Journal of Recent Technology and Engineering, Vol. 8(4), pp. 6902-6905, DOI:10.35940/ijrteD5174.118419, ISSN: 2277-3878	Nov. 2019
7	Ummu Raihanah Hashim, Aidah Jumahat, Nur Syarah Iffah Azizi	Flexural Properties of Chopped Kenaf and Carbon Fibre Reinforced Polymer Composites Embedded with Carbon Nanotubes	International Journal of Recent Technology and Engineering, Vol. 8(4), pp. 6842-6846, DOI:10.35940/ijrte.D5202.118419, ISSN: 2277-3878	Nov. 2019
8	Aidah Jumahat, Norhashidah Manap, Anis Adillah Abu Talib, Tg Faizuddin Tg Mohd Azmi	Chopped Carbon Fiber Reinforced Polymer Composites: Effect of Nanoclay on Adhesive and Abrasive Wear Properties	International Journal of Recent Technology and Engineering, Vol. 8(4), pp. 6836-6841, DOI:10.35940/ijrte.D5201.118419, ISSN: 2277-3878	Nov. 2019
9	Aidah Jumahat, Jamaliah Md Said, Tengku Faizuddin T Mohd Azmi, Mohamed Adzummar Hakim Abdull Adziz	Wear Behavior of Short Glass Fiber Reinforced Polymer Composite with Nanoclay Modification	International Journal of Recent Technology and Engineering, Vol. 8(4), pp. 6769-6774, DOI:10.35940/ijrte.D5220.118419, ISSN: 2277-3878	Nov. 2019
10	Noor Haznida Bakar, Koay Mei Hyie, A Jumahat, Eli	Influence of Different Matrices on the Tensile and Impact	Advanced Materials Research, Vol. 1133, pp. 136-140	2016

	Nadia A Latip, Anizah Kalam, Z Salleh.	Properties of Treated Kenaf Composites		
11	Noor Haznida Bakar, Koay Mei Hyie, Aidah Jumahat, Anizah Kalam, Z. Salleh	Effect of Alkaline Treatment on Tensile and Impact Strength of Kenaf/Kevlar Hybrid Composites	Applied Mechanics and Materials, Vol. 763, pp. 3-8	2015
12	Koay Mei Hyie, Noor Haznida Bakar, Ridzuan Jazlan, A. Jumahat, Anizah Kalam	The Compressive Properties of Kevlar/Kenaf Hybrid Composites.	Applied Mechanics and Materials, Vol. 763, pp 19-24	2015
13	Siti Athirah Rasid, Mazlan Mohamad, Amalina Nordin, Aidah Jumahat, Muhammad Hussain Ismail	Processing of Porous Copper by Powder Metallurgy Route with Different Types of Space Holder Materials (SHMs)	Advanced Materials Research, Vol. 111, pp 110-115	2015
14	Mohd Fadzli Ismail, Aidah Jumahat, Nurulnatisya Ahmad, Muhammad Hussain Ismail	Low Velocity Impact Of Aluminium Foam – Glass Fibre Reinforced Plastic Sandwich Panels	Advanced Materials Research, Vol. 1113, pp. 74-79.	2015
15	Zamani NR, Jumahat A, Bahsan R.	Dynamic Mechanical analysis of nanosilica filled epoxy nanocomposites	Applied Mechanics and Materials, Vol. 699, pp. 239-244.	2015
16	Amir WW, Jumahat A, Kalam A.	Characterization of Nanoclay-Modified Epoxy Polymers Using X-Ray Diffraction Analysis	Applied Mechanics and Materials, Vol. 699, pp. 175-180.	2015
17	Jamaluddin Mahmud, Wahyu Kuntjoro, Aidah Jumahat	Failure analysis of fiber reinforced composite materials used in Malaysian industries	Scientific Research Journal, Vol. 4(2), pp. 41-53, ISSN 1675-7009.	2007
18	Muhammad Hussain Ismail, Aidah Jumahat, Norhamidi Muhamad, Mohd Afian Omar, Istikamah Subuki	Study on stability of a novel binder system based on palm stearin in metal injection moulding application	Scientific Research Journal, Vol. 4(2), pp. 1-12, ISSN 1675-7009.	2007
19	Muhammad Hussain Ismail, Aidah Jumahat, Abdul Rahman Mat Saed, Aqil Abdul Wahab	Effect of compaction pressure on densification of alumina sintered components	Journal of Mechanical Engineering, Vol. 4(1), pp. 33-44, ISSN 1823-5514	2007
20	A. Jumahat, A. K. Ariffin & S. A. Abdullah	Behaviour of alumina based powders during cold and warm compaction processes	Journal of the Institute of Materials Malaysia, Vol. 6(1), pp. 55-80, ISSN 1151-8487.	2006
21	A. K. Ariffin & A. Jumahat	Finite element simulation on friction behaviour between a rigid tool and a deformable workpiece	Journal of the Institute of Materials Malaysia, Vol. 2(1), pp. 1-19, ISSN: 1151-8487	2001

D.5 WoS / Scopus Indexed Proceedings Papers

No	Authors	Conference Paper title	Proceeding Title/ Details	Year	Indexed in
1	Napisah Sapiai, Aidah Jumahat, Norazeen Shaari, Adam Tahir	Mechanical properties of nanoclay-filled kenaf and hybrid glass/kenaf fiber composites	Materials Today: Proceedings, Vol. 46, pages: 1787-1791, DOI: 10.1016/j.matpr.2020.08.025, ISSN 2214-7853, Elsevier	2021	WoS & Scopus
2	N. Shaari, M.F. Abdul Wahab, N.S. Shaari, A. Jumahat	Unhole and open hole tensile properties of hybrid Kevlar/glass fiber polymer composites with different stacking sequence	Materials Today: Proceedings, Vol. 46, pages: 1595-1599, DOI: 10.1016/j.matpr.2020.07.249, ISSN 2214-7853, Elsevier	2021	WoS & Scopus
3	N S Shaari, M H Ismail, A Jumahat, M Zainudin, M F A Manap and N Shaari	Thermal Conductivity of Copper Matrix Composites Reinforced with Multi-wall Carbon Nanotubes	Journal of Physics: Conference Series, Vol.2051, 012048 DOI: 10.1088/1742-6596/2051/1/012048	2021	WoS & Scopus
4	Norhashidah Manap, Aidah Jumahat, Norhanifah Abd Rahman,	NaOH treated Kenaf/Glass hybrid composite: The effects of nanosilica on longitudinal and	Journal of Physics: Conference Series, Vol.1432, 012046 DOI:10.1088/1742-6596/1432/1/012046	2020	WoS & Scopus

	Nur Ain Abd Rahman	transverse tensile properties			
5	F.M.Yusof, N. Wahab, N.L.A. Rahman, A. Kalam, A. Jumahat, C. F. M. Taib	Properties of treated bamboo fiber reinforced tapioca starch biodegradable composite	Materials Today: Proceedings Vol. 16, 2367–2373	2019	WoS & Scopus
6	AAA Talib, A Jumahat, S Kasolang, H Sharudin	Wear properties of nanoclay-filled basalt fiber reinforced polymer (BFRP) composites at different wear conditions	Proceedings of Asia International Conference On Tribology 2018 (ASIATRIB 2018), pp. 471-472.	2018	WoS
7	RJ Talib, MA Selamat, NA Nordin, A Jumahat, H Sharudin, AM Zaharudin	Characteristics of friction material using kenaf as a friction modifier	Proceedings of Asia International Conference On Tribology 2018 (ASIATRIB 2018), pp. 462-463.	2018	WoS
8	AAA Talib, A Jumahat, H Sharudin, NWM Zulkifli.	Specific wear rate of nanoclay-filled basalt fiber reinforced polymer (BFRP) composites.	Proceedings of Mechanical Engineering Research Day 2018 (MERD), pp. 226-227	2018	WoS
9	R. J. Talib, M. H. Amri, M. A. Selamat, M. Hisyam Basri, N. I. Ismail, Z. S. Sulaiman, A. Jumahat.	Adaptability of Activated Carbon from Palm Oil Kernel Shell in the Development of Brake Friction Materials.	AIP Conference Proceedings, Vol. 1901, 030020, 3rd Advanced Materials Conference (AMC), 28-29 Nov. 2016, Langkawi, MALAYSIA..	2017	WoS & Scopus
10	N.R.N.Masdek, N.F.A. Manan, Z. Salleh, K.M. Hyie, M.C.Murad, A. Kalam, Aidah Jumahat	Characterization of Electrodeposited Nanocrystalline Cobalt- Iron Coating with Different Iron Content.	AIP Conference Proceedings, Vol. 1901, 120009, 3rd Advanced Materials Conference (AMC), 28-29 Nov. 2016, Langkawi, MALAYSIA.	2017	WoS & Scopus
11	Nor Shamimi Shaari, Napisah Sapiai, Aidah Jumahat, Muhammad Hussain Ismail	Functionalization of multi-wall carbon nanotubes in chemical solution of H ₂ SO ₄ /HNO ₃ and its dispersion in different media	Materials Science Forum, Vol. 882, pp. 103-107	2017	Scopus
12	Nor Shamimi Shaari, Jamaliah Md. Said, Aidah Jumahat, Muhammad Hussain Ismail	Hardness and wear resistance under a dry sliding condition of carbon nanotubes reinforced with copper matrix composites	Proceedings of International Conference on Advanced Processes and Systems in Manufacturing (APSIM 2016), 28-30 Aug. 2016, Kuala Lumpur, MALAYSIA. Pages: 87-88	2016	WoS
13	S Kasolang, MHK Anwar, MH Ismail, MAA Bakar, NR Nik Roselina, A Jumahat.	The effect of oil treatment on wear property of medium carbon steel	Proceedings of Malaysian International Tribology Conference 2015 (MITC2015) pp. 324-325, 16-17 November 2015, Penang Malaysia, pp. 142-143	2015	WoS
14	A. Jumahat, A.A.A. Talib, A.Abdullah.	Wear Properties of Nanoclay Filled Epoxy Polymer	Proceedings of Malaysian International Tribology Conference 2015 (MITC2015), pp. 148-149, 16-17 November 2015, Penang Malaysia, pp. 320-321	2015	WoS
15	S Kasolang, NS Mohamad, MAA Bakar, A Jumahat, NRN Roselina	The effect of titanium dioxide nanoparticles on bio-lubricant film thickness using ultrasonic reflection	Proceedings of Malaysian International Tribology Conference 2015 (MITC2015) pp. 324-326, 16-17 November 2015, Penang Malaysia pp. 324-326	2015	WoS
16	Fadzil, N.A.M., Kalam, A., Jumahat, A., Taib, Y.M., Razak, N.W.A.	Fracture toughness of treated OPEFB filled polymer nanocomposites at different clay loading	Advanced Materials Research, Vol. 871, pp. 184-188	2014	WoS & Scopus
17	Bakar, N.H., Mei Hyie, K., Ramlan, A.S., Hassan, M.K., Jumahat, A.	Mechanical properties of Kevlar reinforcement in kenaf composites	Applied Mechanics and Materials, Vol. 465-466, pp. 847-851	2014	WoS & Scopus
18	N.A.M. Fadzil, A. Kalam, Aidah Jumahat, Y.M.Taib, N.W.A Razak	Viscosity analysis of copper powder mixed with palm stearin based binder	Applied Mechanics and Materials, Vol. 660, pp. 259-264	2014	Scopus
19	Jumahat, A., Soutis, C., Abdullah, S.A., Bahsan, R.	Dimensional and thermal stabilities of nanomodified-epoxy systems	Applied Mechanics and Materials, Vol. 393, pp. 161-166	2013	Scopus
20	Saharudin, M.S., Jumahat, A., Kahar, A.Z.A., Ahmad, S.	The influence of alumina filler on impact properties of short glass fiber reinforced epoxy	Applied Mechanics and Materials, Vol. 393, pp. 88-93	2013	Scopus
21	Jumahat, A., Soutis, C., Ali, N.M., Mahmud, J.	Fibre misalignment measurement of nanomodified-	Applied Mechanics and Materials, Vol. 393, pp. 200-205	2013	Scopus

		unidirectional carbon fibre laminates			
22	Jumahat, A., Soutis, C., Ahmad, N., Wan Mohamed, W.M.	Fracture toughness of nanomodified-epoxy systems	Applied Mechanics and Materials, Vol. 393, pp. 206-211	2013	Scopus
23	Kalam, A., Jumahat, A., Salleh, Z., Hyie, K.M.	Mechanical properties and fracture toughness of alkali treated oil palm fruit bunch (OPFB) fibre/epoxy composites	Applied Mechanics and Materials, Vol. 390, pp. 521-525	2013	Scopus
24	Abidin, M.I.Z., Mahmud, J., Latif, M.J.A., Jumahat, A.	Experimental and numerical investigation of SUP12 steel coil spring	Procedia Engineering, Vol. 68, pp. 251-257, Malaysian International Tribology Conference (MITC), Kota Kinabalu, MALAYSIA, 18-20 Nov. 2013	2013	WoS & Scopus
25	Mahbob, M.R., Mahmud, J., Azlan, M.A.M., Jumahat, A.	Finite element analysis of telecommunication mini mast structure	Procedia Engineering, Vol. 68, pp. 258-264, Malaysian International Tribology Conference (MITC), Kota Kinabalu, MALAYSIA, 18-20 Nov. 2013	2013	WoS & Scopus
26	Nik Roselina, N.R., Azizan, A., Hyie, K.M., Jumahat, A., Abu Bakar, M.A.	Effect of pH on formation of nickel nanostructures through chemical reduction method	Procedia Engineering, Vol. 68, pp. 43-48, Malaysian International Tribology Conference (MITC), Kota Kinabalu, MALAYSIA, 18-20 Nov. 2013	2013	WoS & Scopus
27	M.J. Abd Latif, N.H.Hashim, R. Ramlan, J. Mahmud, Aidah Jumahat, M.R.A. Kadir	The effects of surface curvature on cartilage behaviour in indentation test: A finite element study	Procedia Engineering, Vol. 68, pp. 109-115, Malaysian International Tribology Conference (MITC), Kota Kinabalu, MALAYSIA, 18-20 Nov. 2013	2013	WoS & Scopus
28	Abdullah, S.A., Jumahat, A., Abdullah, N.R., Frommann, L.	Determination of shape fixity and shape recovery rate of carbon nanotube-filled shape memory polymer nanocomposites	Procedia Engineering, Vol. 41, pp. 1641-1646, International Symposium on Robotics and Intelligent Sensors (IRIS), Kuching, MALAYSIA, 4-6 Sept. 2012	2012	WoS & Scopus
29	Jumahat, A., Soutis, C., Abdullah, S.A., Kasolang, S.	Tensile properties of nanosilica/epoxy nanocomposites	Procedia Engineering, Vol. 41, pp. 1634-1640, International Symposium on Robotics and Intelligent Sensors (IRIS), Kuching, MALAYSIA, 4-6 Sept. 2012	2012	WoS & Scopus
30	Jumahat, A., Soutis, C., Mahmud, J., Ahmad, N.	Compressive properties of nanoclay/epoxy nanocomposites	Procedia Engineering, Vol. 41, pp. 1607-1613, International Symposium on Robotics and Intelligent Sensors (IRIS), Kuching, MALAYSIA, 4-6 Sept. 2012	2012	WoS & Scopus
31	Ismail, M.H., Omar, M.A., Muhamad, N., Jumahat, A.	Study of evolution of pore structure during water leaching using PEG-PMMA binder system	Advances in Powder Metallurgy and Particulate Materials - 2005, Proceedings of the 2005 Int. Conf. on Powder Metallurgy and Particulate Materials, PowderMet 2005, pp. 62-71	2005	Scopus

D.6 WoS / Scopus Indexed Proceedings Papers (In press - Accepted for publication)

No	Authors	Document title	Journal Title & Details	Publication Date/Year	Indexed in
1	Ilya Izyan Shahrul Azhar, Jamaliah Md Said, Aidah Jumahat, Muhammad Badrul Amin Mohd Radi	Maximum bending stress analysis of Nanosilica filled Arenga Pinnata/Epoxy and Glass/Epoxy Polymer Composites	Springer Proceedings in Materials, eISSN 2662317X, Publisher Springer Nature	Accepted for publication Apr. 2022	Scopus
2	J.M. Said, A. Jumahat, Jamaluddin Mahmud	Effect of Angle Ply on Tensile Strength of Unidirectional Glass/Epoxy and Arenga Pinnata/Epoxy Hybrid Composite Laminate	Springer Proceedings in Materials, eISSN 2662317X, Publisher Springer Nature	Accepted for publication Apr. 2022	Scopus
3	Noor Leha Abdul Rahman, Aidah Jumahat, Napisah Sapiai, Syed Tajul Muluk Syed Ahmad Putra	The Impact response of coconut fibreboards with different flour as natural binders	Springer Proceedings in Materials, eISSN 2662317X, Publisher Springer Nature	Accepted for publication Apr. 2022	Scopus

D.7 Non-Indexed Proceeding Papers (Reviewed Proceedings/Conference Papers)

No	Authors	Conference Paper title	Proceeding Title/ Details	Publication Date/Year
1	Najiy Rizal Suriani Rizal, Aidah Jumahat	Original and Improved Designs of Multi-Cavity Parisons Injection Moulding Mould	Proceedings of the 3rd National Conference On Knowledge Transfer, Penang Malaysia	31 November – 1 December 2016
2	Jumahat A, Soutis C, Mahmud J.	Effect of clay nanoplatelets dispersion on compressive properties of Epikote 828 epoxy	Proceedings of the Asian International Conference on Materials, Minerals, and Polymer (MAMIP2012), Penang Malaysia.	23-24 March 2012
3	Jumahat A, Soutis C, Abdullah SA.	Tensile stress-strain response of nanosilica-filled epoxy nanocomposites	Proceedings of the Asian International Conference on Materials, Minerals, and Polymer (MAMIP2012), Penang Malaysia	23-24 March 2012
4	Kasolang S, Jaffar A, Saad N, Jumahat A, Joyce RD, Ahmad MA, Abu Bakar MA.	<i>Experimental study of temperature profile in a journal bearing</i>	Proceedings of 1st Joint Symposium on System-Integrated Intelligence (SysInt2012), Hannover Germany	30 June 2012,
5	Jumahat A, Soutis C, Jones FR, Hodzic A.	<i>The effects of nanosilica contents on thermal-mechanical properties of epoxy polymers</i>	Proceedings of the 10 th SAMPE Europe International Conference (SEICO10), Paris France.	12-14 April 2010
6	Jumahat A, Soutis C, Jones FR, Hodzic A	<i>Effect of clay nanoplatelets on compressive properties of an aerospace-grade epoxy Cycom 977-20</i>	Proceedings of the International Conference on Interfaces and Interphases in Multicomponent Materials (IIMM2010), Sheffield United Kingdom	1–3 Sept. 2010
7	Jumahat A, Soutis C, Jones FR, Hodzic A, Hayes SA.	<i>Improved of compressive properties of unidirectional HTS40/828 CFRP composite using nanosilica-modified epoxy</i>	Proceedings of the International Conference on Interfaces and Interphases in Multicomponent Materials (IIMM2010), Sheffield United Kingdom	1–3 Sept. 2010
8	Jumahat A, Soutis C, Jones FR, Hodzic A	<i>Compressive properties of nanosilica-filled epoxy nanocomposites</i>	BSSM Seminar on New Approaches for Performance Definition of Composite Materials and Structures, London UK	11 March 2010
9	Jumahat A, Soutis C, Jones FR, Hodzic A	<i>Fracture mechanisms and failure analysis of carbon fibre/toughened epoxy composites subjected to compressive loading.</i>	Proceedings of the 15 th International Conference on Composite Structures (ICCS15), Porto Portugal	15-17 June 2009
10	Jumahat A, Soutis C, Jones FR, Hodzic A	<i>Analysis of compression failure of unidirectional carbon fibre/toughened resin composites</i>	<i>Proceedings of the 10th deformation and Fracture of Composites (DFC10), Sheffield United Kingdom.</i>	15-17 April 2009
11	B. Abdullah, A Jaffar, A Jumahat, MH Ismail, A Ramli.	<i>A Study on sintering behaviours of alumina (Al₂O₃) reinforced aluminium matrix composite and its properties</i>	Proceedings of the International Conference on Advances in Mechanical Engineering, Malaysia. ISBN 978-967-305-355-1.	24-25 June 2009
12	B. Abdullah, A Jaffar, A Jumahat, MH Ismail, A Ramli.	<i>The effect of nanosized silicon carbide reinforcement on mechanical and physical properties of aluminium matrix composite</i>	Proceedings of the International Conference on Advances in Mechanical Engineering, Malaysia. ISBN 978-967-305-355-1.	24-25 June 2009
13	B. Abdullah, A Jaffar, A Jumahat, MH Ismail, M Nashri, A Ramli.	<i>The effect of nanosized silicon nitride composition to mechanical and physical properties of aluminium matrix composite (AMC).</i>	Proceedings of the International Conference on Advances in Mechanical Engineering, Malaysia. ISBN 978-967-305-355-1.	24-25 June 2009
14	B. Abdullah, A Jaffar, A Jumahat, MH Ismail, M Hisham, A Ramli.	<i>The effect of sintering on mechanical and physical properties of paper ash reinforced AMC</i>	Proceedings of the International Conference on Advances in Mechanical Engineering, Malaysia. ISBN 978-967-305-355-1.	24-25 June 2009
15	B. Abdullah, A Jaffar, A Jumahat, MH Ismail, Suharmizi M.Y, A Ramli	<i>The physical properties of paper ash powder after mechanical milling in different time</i>	Proceedings of the International Conference on Advances in Mechanical Engineering, Malaysia. ISBN 978-967-305-355-1.	24-25 June 2009

16	SR Suardi, B. Abdullah, A Jumahat, MH Ismail, Z Halim, MA Selamat	<i>Mechanical preoperties of waste paper sludge ash reinforced aluminium matrix composite</i>	Proceedings of the International Conference on Mechanical & Manufacturing Eng., Malaysia. ISBN 97-98-2963-59-2.	21-23 May 2008
17	Aidah Jumahat, Shahrul Azam & Muhamad Dahalan	<i>Application of Shot Peening Process to Improve Fatigue Life of Automotive Valves</i>	Proceedings of the Conference on Scientific and Social Research, Selangor, Malaysia. ISBN: 978-967-305-041-7.	3 – 5 Julai 2007
18	Muhammad Hussain, Aidah Jumahat & Norhamidi.	<i>A Study on Stability of A Novel Binder System Based on Palm Oil in Metal Injection Molding (MIM) Application</i>	Proceedings of the Conference on Scientific and Social Research, Selangor, Malaysia. ISBN: 978-967-305-041-7	3 – 5 Julai 2007
19	A. Jumahat, MH Ismail	<i>The Effect of Sintering Temperature on Mechanical Strength of Zirconia Sintered Component.</i>	Proceedings of the Asian Symposium on Materials and Processing 2006, Bangkok, Thailand.	9 – 10 Nov. 2006
20	MH Ismail, A Jumahat.	<i>Effect of Palm Stearin on Rheological Properties of Metal Injection Molding Feedstock.</i>	Proceedings of the Powder Metallurgy World Congress 2006, Busan, Korea.	24 – 28 Sept. 2006
21	B. Abdullah, A Jumahat	<i>Effect Of Carbon, Manganese, Sulphur And Magnesium Content On Mechanical Properties Of Cast Irons.</i>	Proceedings of the 6 th International Materials and Technology Conference and Exhibition 2006, Mutiara Crowne Plaza, Kuala Lumpur.	17 – 20 July 2006
22	A Jumahat, A.K. Ariffin & M. Hussain Ismail.	<i>Development of High Density Green Parts Using Warm Compaction Process.</i>	Proceedings of the 9 th Japan International SAMPE (Society for the Advancement of Material and Process Engineering), Japan.	29 Nov. – 2 Dec. 2005
23	M. Hussain Ismail, N. Muhammad, A Jumahat, N.R. Abdullah & J. Mahmud.	<i>Effect of powder loadings on Metal injection moulding (MIM) green properties.</i>	Proceedings of the 9 th Japan International SAMPE (Society for the Advancement of Material and Process Engineering), Tokyo Japan.	29 Nov. – 2 Dec. 2005,
24	Aidah Jumahat, A.K. Ariffin & M. Hussain Ismail	<i>Influence of Elevated Temperature on Mechanical Properties of Powder Metallurgy Parts</i>	Proceedings of the International Conference on Recent Advances in Mechanical & Materials Engineering, Kuala Lumpur, Malaysia. ISBN 983-41728-2-6	30 – 31 May 2005
25	Aidah Jumahat, A.K. Ariffin & N. H. Saad	<i>Improving Mechanical Properties of Near-Net-Shape Components Using Warm Compaction Process</i>	Proceedings of the Conference on Scientific and Social Research, Terengganu Malaysia.	10-12 June 2005
26	Aidah Jumahat & Jamaluddin Mahmud.	<i>Finite Element Simulation of Cold and Warm Compaction Processes.</i>	Proceedings of the Conference on Scientific and Social Research, Terengganu, Malaysia.	10-12 June 2005
27	Aidah Jumahat & S. A. Abdullah	<i>Deformation Analysis using Displacement Based Formulation – F.E.M.</i>	Proceedings of the National Conference on Advances in Mechanical Engineering, Kuala Lumpur, Malaysia. ISBN: 967-958-173-X.	18 – 20 May 2005
28	Aidah Jumahat & M. H. Ismail..	<i>Morphological Study of Alumina Green Compacts</i>	Proceedings of the National Conference on Advances in Mechanical Engineering (NAME05), Malaysia. ISBN: 967-958-173-X.	18 – 20 May 2005
29	Aidah Jumahat, A.K. Ariffin & Nor Hayati Saad	<i>Compaction Process of Ceramic Powder to Produce Electronic Products</i>	Proceedings of the 6 th International Conference on Electronic Materials and Packaging, Malaysia. ISBN: 983-2514-86-X.	5-7 Dec. 2004
30	M. H. Ismail, N. Mohamad & A. Jumahat.	<i>Characterization of Green Parts in Metal Injection Molding (MIM) Process.</i>	Proceedings of the 13 th Scientific Conference of Electron Microscopy Society of Malaysia (EMSM2004), Malaysia.	13 – 15 Dec. 2004
31	Aidah Jumahat, A.K. Ariffin & M. H. Hussain.	<i>Improving Mechanical Properties of Powder Metallurgy Parts using Warm Compaction</i>	Proceedings of the Malaysian Science and Technology Congress (MSTC2004), Selangor, Malaysia	5-7 Oct. 2004
32	Shahrul Azam, Aidah Jumahat & M. Dahalan, M. Ramli	<i>A Review on Shot Peening Process.</i>	Proceedings of the Malaysian Science and Technology Congress, Selangor, Malaysia (MSTC2004).	5-7 Oct. 2004
33	Aidah Jumahat, A.K. Ariffin & Jamaluddin Mahmud	<i>Simulation Studies on Cold Compaction Process Using Finite Element Method.</i>	Proceedings of the Malaysian Science and Technology Congress, Selangor, Malaysia (MSTC2004).	5-7 Oct. 2004
34	Aidah Jumahat, Jamaluddin Mahmud, M.	<i>Ceramic Powder Compaction Process.</i>	Proceedings of the Seminar Kebangsaan Sains Teknologi dan Sains Sosial, Pahang,	31 May – 1 June 2004

	Sani & M. Azwa		Malaysia ISBN: 983-40671-6-X.	
35	J. Mahmud, W. Kuntjoro and A. Jumahat	<i>Failure Analysis of Fiber Reinforced Composite Materials Used in Malaysian Industries</i>	Proceedings of Conference on Scientific and Social Research, CSSR 2004, IRDC. Sarawak, Malaysia(CSSR2004).	19 Mei 2004
36	A. K. Ariffin, Md. Mujibur Rahman & Aidah Jumahat	<i>An Experimental Investigation of Warm Powder Compaction Process.</i>	Proceedings of the BSME-ASME International Conference on Thermal Engineering. Dhaka, Bangladesh.	31 Dec 2001 – 2 Jan. 2002
37	Aidah Jumahat, A. K. Ariffin & S. Abdullah	<i>Analysis of Thermo-Mechanical Behaviour of Warm Compaction Process.</i>	Proceedings of the Annual Workshop National Science Fellowship (NSF), Selangor, Malaysia. ISBN: 983-99624-3-4.	14-15 Jan. 2002
38	A. K. Ariffin, Aidah Jumahat & S. Abdullah.	<i>Analisis Kelakuan Termo-Mekanik bagi Proses Padatan Hangat.</i>	Proceedings of the Seminar IRPA RMK-7, Negeri Sembilan, Malaysia. ISBN: 983-2446-30-9.	Ogos 2001
39	A. K. Ariffin, Aidah Jumahat & S. Abdullah.	<i>Kesan Geseran Terhadap Proses Padatan Serbuk Hangat.</i>	Proceedings of the Kolokium Penyelidikan Asas Pembangunan Ilmu, JKMB, UKM. Bangi, Malaysia. ISBN: 983-2446-19-8.	14-16 Sept. 2001
40	A.K. Ariffin, Aidah Jumahat, M.M. Rahman	<i>The Simulation of Die Movement in Designing P/M Parts.</i>	Proceedings of the Seminar on Design for the New Millenium, Johor, Malaysia.	15 Jan. 2001
41	A. K. Ariffin, Aidah Jumahat & Md. Mujibur Rahman	<i>Permodelan dan Penyelakuan Termo-Mekanik Proses Padatan Serbuk Hangat.</i>	Proceedings of the 14th Symposium of Malaysian Chemical Engineers (SOMCE – 2000), Malaysia. ISBN: 983-40358-0-2.	30-31 Oct. 2000
42	A. K. Ariffin, Aidah Jumahat & S. Abdullah.	<i>Analisis Geseran dalam Proses Padatan Serbuk Logam</i>	Proceedings of the Seminar IRPA RMK-7 2000, Malaysia. ISBN: 983-9152-87-4.	20-22 Oct. 2000

D.8 Chapter in book

No	Authors	Chapter in book title	Book Title & Details	Year	Indexed in
1	A. Jumahat, A.A.A. Talib, H. Sharudin, and N.W.M. Zulfikli	Tribological behaviour of nanoclay-filled basalt fiber-reinforced polymer composites	Book: Tribology of Polymer Composites: Characterization, Properties and Applications. Publisher: Elsevier, pp. 143-162, ISBN: 978-0-12-819767-7	2020	Scopus, WoS
2	Napisah Sapiai, Aidah Jumahat and Jamaluddin Mahmud	Wear Properties of Acid and Silane Modified CNT Filled Hybrid Glass/Kenaf Epoxy Composites	Book: Synthesis and Tribological Applications of Hybrid Materials. Publisher: Wiley, pp. 97-114, ISBN: 978-3-527-80859-5	2018	Scopus, WoS
3	Aidah Jumahat, Zuraidah Salleh, Anizah Kalam, Koay Mei Hyie, Nik Rozlin Nik Mohd Masdek, Mardziah Che Murad, Shahrman Zainal Abidin	Fracture Mechanics & Materials Integrity Research.	Book: Research Highlights on Frontier Materials & Industrial Application 2017. Publisher: IRMI UiTM	2017	-
4	A Jumahat, AAA Talib, A Abdullah	Wear Properties of Nanoclay Filled Epoxy Polymers and Fiber Reinforced Hybrid Composites	Book: Nanoclay Reinforced Polymer Composites, Publisher: Springer Singapore, pp. 247-260, ISBN 978-981-10-1952-4, DOI 10.1007/978-981-10-1953-1	2016	Scopus, WoS
5	Jamaliah Md Said, Aidah Jumahat, Nurhisyam Adnan	Materials behaviour loaded in tension	Book: Research in brief. Publisher Agensi Nuklear Malaysia, pp. 41-44. eISBN: 978-967-2706-09-0	2022	
6	Jamaliah Md Said, Aidah Jumahat	Failure analysis of composite laminates due to cutouts	Book: Research in brief. Publisher Agensi Nuklear Malaysia, pp. 45-48. eISBN: 978-967-2706-09-0	2022	-
7	Jamaliah Md Said, Aidah Jumahat, Luqman N. Minhuaazam	Compressive strength analysis of composite materials	Book: Research in brief. Publisher Agensi Nuklear Malaysia, pp. 49-52. eISBN: 978-967-2706-09-0	2022	-
8	Jamaliah Md Said, Aidah Jumahat, Meor A.I. Izham	Prediction of impact failure	Book: Research in brief. Publisher Agensi Nuklear Malaysia, pp. 53-56.	2022	-

			eISBN: 978-967-2706-09-0		
9	Jamaliah Md Said, Aidah Jumahat, Muhammad Badrul Amin Bin Mohd Radi	Bending response of laminates under transverse loading	Book: Research in brief. Publisher Agensi Nuklear Malaysia, pp. 57-60. eISBN: 978-967-2706-09-0	2022	-

D.9 Policy Paper / Guidelines Paper / Circular (Pekeliling)

No.	Title	Publication Level	Role	Publication Year
1	Garis Panduan Geran Penyelidikan Strategic Research Partnership (SRP) UiTM-Universitas Indonesia Bilateral Strategic Alliance 2.0 (UI-UiTM BISA 2.0) (PINDAAN 2022)	UiTM	Leader of Policy/Guideline Development (Ahli Jawatankuasa Penggubal Garis Panduan/Dasar)	2022
2	UiTM-Universitas Indonesia Bilateral Strategic Alliance (UI UiTM BISA) (TAHUN 2021)	UiTM	Member of Guideline/Policy Maker	2021
3	Dasar Entiti Kecemerlangan UiTM, Pindaan 2020	UiTM	Member of Guideline/Policy Maker	2020
4	Garis Panduan Entiti Kecemerlangan UiTM, Pindaan 2020	UiTM	Member of Guideline/Policy Maker	2020
5	Pekeliling Timbalan Naib canselor (Penyelidikan dan Inovasi) Bilangan 1 Tahun 2020 Perlaksanaan Key Performance Indicator (KPI) penerbitan tahunan minimum bagi staf akademik UiTM dan Penetapan staf akademik UiTM dalam trek penyelidikan	UiTM	Member of Guideline/Policy Maker	2020
6	Garis Panduan Geran Penyelidikan Strategic Research Partnership (SRP) (Tahun 2020)	UiTM	Member of Guideline/Policy Maker	2020
7	Garis Panduan Geran Penyelidikan Global Research Reputation (GRR) (Tahun 2020)	UiTM	Member of Guideline/Policy Maker	2020
8	Garis Panduan Penerbitan Jurnal UiTM	UiTM	Member of Guideline/Policy Maker	2019
9	Garis Panduan Entiti Kecemerlangan UiTM, Pindaan 2019	UiTM	Member of Guideline/Policy Maker	2019
10	Dasar Entiti Kecemerlangan UiTM, Pindaan 2017	UiTM	Member of Guideline/Policy Maker	2017
11	Garis Panduan Entiti Kecemerlangan UiTM, Pindaan 2017	UiTM	Member of Guideline/Policy Maker	2017
12	Pekeliling Timbalan Naib canselor (Penyelidikan dan Inovasi) Bilangan 3 Tahun 2017 Penetapan kriteria serta Key Performance Indicator (KPI) bagi trek penyelidikan dan KPI penerbitan bagi trek kepimpinan dan trek Pengajaran & pembelajaran	UiTM	Member of Guideline/Policy Maker	2017

D.10 Journal Editor / Journal Guest Editor / Book Editor

No.	Journal Name	Publication Details	Role	Publication Year
1	International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies (ITJEMAST), ISSN 2228-9860	Volume 12 Issue 9, Publisher Thammasat University Thailand https://drive.google.com/file/d/1Wz8kgenBu_Z3pF5XGZjSRcGsy4YiV5Y9/view https://tuengr.com/Vol12_9.html	Journal Guest Editor	November 2021
2	International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN 2278-3075	Volume-9 Issue-3, https://www.ijitee.org/download/volume-9-issue-3/	Journal Guest Editor	January 2020
3	International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN 2278-3075	Volume-9 Issue-4, https://www.ijitee.org/download/volume-9-issue-4/	Journal Guest Editor	February 2020

4	International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN 2278-3075	Volume-9 Issue-1, https://www.ijitee.org/download/volume-9-issue-1/	Journal Guest Editor	November 2019
5	International Journal of Recent Technology and Engineering (IJRTE), ISSN 2277-3878	Volume-8 Issue-4, https://www.ijrte.org/download/volume-8-issue-4/	Journal Guest Editor	November 2019
6	International Journal of Engineering and Advanced Technology (IJEAT), ISSN 2249-8958	Volume-9 Issue-1, https://www.ijeat.org/download/volume-9-issue-1/	Journal Guest Editor	October 2019
7	International Journal of Recent Technology and Engineering (IJRTE), ISSN 2277-3878	Volume-8 Issue-1, Publisher Blue Eyes Intelligence Engineering & Sciences Publication, https://www.ijrte.org/download/volume-8-issue-1/ ,	Journal Guest Editor	May 2019
8	International Journal of Engineering & Technology, ISSN 2227524X	Vol 7 No 4.18 (2018): Special Issue 18, Publisher Science Publishing Corporation, https://www.sciencepubco.com/index.php/ijet/issue/view/399 ,	Journal Guest Editor	2018
9	International Journal of Engineering & Technology, ISSN 2227524X	Vol 7 No 3.11 (2018): Special Issue 11, Publisher Science Publishing Corporation, https://www.sciencepubco.com/index.php/ijet/issue/view/359 ,	Journal Guest Editor	2018
10	Jurnal Tribologi, ISSN (online) : 2289-7232	Volumes 1 - 19, ISSN 2289-7232, Publisher: UTM & MYTRIBOS, https://jurnaltribologi.mytribos.org/editor.html ,	Editorial Board	2014 - 2017
11	Research Highlights on Frontier Materials & Industrial Application 2017	https://fmia.uitm.edu.my/images/FMIA_DOWNLOAD/Research_Highlight_on_FMIA_2017_compressed.pdf Publisher: IRMI UiTM	Book Editor, Author	2017
12	Pertanika Journal of Science & Technology	Vol. 25 (S) March 2017, ISSN 0128-7680, Publisher: UPM Press, http://www.pertanika.upm.edu.my/view_archives.php?journal=JST-25-S-3	Journal Guest Editor	March 2017
13	Pertanika Journal of Science & Technology	Vol. 25 (S) April 2017, ISSN 0128-7680, Publisher: UPM Press, http://www.pertanika.upm.edu.my/view_archives.php?journal=JST-25-S-4 ,	Journal Guest Editor	April 2017
14	Pertanika Journal of Science & Technology	Vol. 25 (S) July 2017, ISSN 0128-7680, Publisher: UPM Press, http://www.pertanika.upm.edu.my/view_archives.php?journal=JST-25-S-7 ,	Journal Guest Editor	July 2017
15	Pertanika Journal of Science & Technology	Vol. 25 (S) August 2017, ISSN 0128-7680, Publisher: UPM Press, http://www.pertanika.upm.edu.my/view_archives.php?journal=JST-25-S-8 ,	Journal Guest Editor	August 2017
16	Malaysian Construction Research Journal (MCRJ)	Volume 20 No. 3, ISSN 1985 – 3807, Publisher: Construction Research Institute of Malaysia (CREAM)	Editorial Advisory Board	2016
17	Jurnal Teknologi	Volume 76 No. 3, ISSN 2180-3722, Publisher: UTM Press, (https://jurnalteknologi.utm.my/index.php/jurnalteknologi/issue/view/198)	Chief Editor	2015
18	Jurnal Teknologi	Volume 76 No. 11, ISSN 2180-3722, Publisher: UTM Press, (https://jurnalteknologi.utm.my/index.php/jurnalteknologi/issue/view/206)	Editorial Board	2015
19	Handbook of Plain Bearings - Buku Panduan Galas Datar, ISBN 978-983-100-788-4,	Publisher: Penerbit Universiti Malaya	Editorial committee, Translator	2015

20	Jurnal Tribologi	Volume 1 (June 2014) - Volume 20 (March 2019) Publisher: UTM & MYTRIBOS https://www.jurnaltribologi.mytribos.org/v1.html https://www.jurnaltribologi.mytribos.org/v1/Editor.pdf	Editorial Board	June 2014 – March 2019
21	Procedia Engineering Journal, ISSN 1877-7058	Volume 68, Publisher: Elsevier	Editorial board	2013
22	Applied Mechanics and Materials Journal, ISSN 1660-9336	Volume 393, Publisher: Trans Tech Publications	Editorial board	2013
23	Faculty of Mechanical Engineering Student Handbook 2013/2014	Publisher: FKM UiTM	Editorial committee	2013
24	Journal of Mechanical Engineering, ISSN 1823-5514	Volumes 2-3, Publisher: UPENA	Chief Editor	2005-2006
25	Journal of Faculty of Mechanical Engineering ISSN 1675-8994	Volume 1 Publisher: FKM UiTM	Editor	2004

D.11 Other Publications (Magazine, Report, others)

No.	Publication Name	Publication Details	Role	Publication Year
1	IWK-UiTM Research Collaboration	RISE Magazine – Catalysing Global Research Excellence eISSN 28055683 https://online.fliphtml5.com/zsjxx/uytl/#p=1	Main Author	Nov. 2021

E. APPOINTMENT AND EXPERTISE: CONFERENCE / SEMINAR / WORKSHOP / PROGRAM (Involvement as Speaker/Organizer/Committee Members/Reviewer/Others) (selected)**E.1 Keynote Speaker / Invited speaker**

No.	Conference / Seminar / Program Name	Role	Level	Date
1	8th International Conference on Mechanical Engineering, Materials Science and Civil Engineering (ICMEMSCE2020)	Keynote Speaker	International	23-24 Nov. 2020
2	4th International Conference on Mechanical Engineering and Applied Composite Materials (MEACM2020)	Keynote Speaker	International	24-25 Oct. 2020
3	2020 6th International Conference on Mechanical Structures and Smart Materials (ICMSSM2020)	Keynote Speaker	International	25-26 July 2020
4	2020 9th International Conference on Advanced Materials and Engineering Materials (ICAMEM2020)	Keynote Speaker	International	3-5 July 2020
5	2019 3rd International Conference on Mechanical Engineering and Applied Composite Materials (MEACM2019)	Keynote Speaker	International	23 November 2019
6	5th International Conference on Mechanical Engineering, Materials Science and Civil Engineering (ICMEMSCE2017)	Keynote Speaker	International	15-16 Dec. 2017
7	5th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017)	Keynote Speaker	International	16-18 August 2017
8	International Conference on Material, Mechatronics, Manufacturing and Mechanical Engineering 2014 (ICMMMM2014)	Keynote Speaker	International	24-25 October 2014
9	3rd International Conference on Science and Social Research 2016 (CSSR 2016)	Invited Speaker	International	6-7 Disember 2016
10	International Workshop Palm Byproducts: A Springboard to Circular Bioeconomy. Organizer: ByPalma Association	Invited speaker	International	27 April 2021
11	North Campus Annual Symposium 2010 Organizer: University of Sheffield, United Kingdom	Invited speaker	International	20 April 2010
12	Seminar dan bengkel Penulisan & penerbitan Saintifik 2021. Organizer: Agensi Nuklear Malaysia	Invited Speaker	National	1 July 2021
13	Workshop on Academic Paper Writing and Publication,	Invited Speaker	National	29 June 2021

	Ogranizer: Agensi Nuklear Malaysia			
14	Workshop On Materials and Composite Properties Towards IR4.0. Organizer: Centre for Instructor and Advanced Skill Training (CIASST) Ministry of Human Resources	Invited speaker	National	20-21 Oct 2020
15	Materials Science Workshop 2015 Organizer: FKM UiTM and Crest Nano Solution Sdn Bhd.	Invited Speaker	National	29 – 30 April 2015
16	Webinar transforming your FRGS/PRGS drafts into winning proposals. Organizer: UiTM Johor	Invited Speaker	University	15 Feb 2021
17	Webinar FRGS grant proposal writing. Organizer: Pusat Asasi UiTM	Invited Speaker	University	17 Feb 2021
18	Webinar FRGS grant proposal writing and Evaluation. Organizer: FKK UiTM	Invited Speaker	University	17 Feb 2021
19	Webinar Engineered materials FMMI Research Group	Invited Speaker	University	4 June 2021
20	Program Tips for Winning Industrial Grant Webinar, UiTM Cawangan Kelantan	Invited Speaker	University	14 April 2021
21	Bengkel pemurnian kertas cadangan FRGS 2020, UiTM Cawangan Kelantan	Invited Speaker	University	5 Feb 2020
22	Klinik Pemantapan Penulisan Kertas cadangan Geran FRGS, Pusat Asasi UiTM	Invited Speaker	University	7 Feb 2020
23	Journal paper Writing Workshop 2020	Invited Speaker	University	18 Feb 2020
24	UiTM RESEARCH WEBINAR SERIES 2020: International Strategic Partnership - UK	Invited Speaker	University	13 April 2020
25	Geran Penyelidikan Khas Pasca Covid-19 (Geran KPT)	Invited Speaker	University	21 April 2020
26	Webinar: What's Next After Covid 19? New Norm for Researchers, Akademi PKS Dan Pembangunan Keusahawanan Malaysia, MASMED, UiTM	Invited Speaker	University	2 Jun 2020
27	FYP Webinar: Kick start for extensive review using online databases, FKM UiTM	Invited Speaker	University	17 Jun 2020
28	Webinar: Tips to write a winning proposal Lestari Covid 19 Grant, UiTM Pulau Pinang	Invited Speaker	University	25 Jun 2020
29	Webinar Global Research Reputation (GRR) & Strategic Research Partnership (SRP) grants	Invited Speaker	University	2 Nov 2020
30	Bengkel Penubuhan kumpulan penyelidik RIG	Invited Speaker	University	25 Oct 2019
31	IGS Writing Skills Seminar, IPSIS, UiTM	Invited Speaker	University	14 July 2019
32	FMIA workshop: Journal Paper Writing	Invited Speaker	University	16-17 July 2019
33	FMIA workshop: Journal Paper Editing	Invited Speaker	University	24-25 July 2019
34	Journal Writing workshop, IPSIS UiTM	Invited Speaker	University	27 July 2019
35	Emerging Research Leaders Series (ERLS) FMIA workshop: Journal Paper Writing and Submission at ILD	Invited Speaker	University	31 July – 2 August 2019
36	FMIA workshop: Journal Paper Writing & Submission	Invited Speaker	University	6-7 Aug 2019
37	Bengkel Pemantauan Prestasi HICoE dan CoE Tahun 2018, UiTM	Invited Speaker	University	May-July 2019
38	Bengkel penerangan Instrumen HICOE 2015, UiTM	Invited Speaker	University	3 April 2019
39	Bengkel penulisan proposal projek penyelidikan, Fak Perladangan dan Agroteknologi (FPA)	Invited Speaker	University	10 April 2019
40	Review Paper Writing Workshop	Invited Speaker	University	9-10 Jan 2019
41	Bengkel Penulisan dan Pair to Publish, UiTM Pasir Gudang, Johor	Invited Speaker	University	16-18 Jan 2019
42	Taklimat dan Bengkel FRGS dan geran-geran KPM di UiTM Penang	Invited Speaker	University	31 Januari 2019
43	Taklimat dan Bengkel FRGS dan geran-geran KPM di UiTM Pasir Gudang Johor	Invited Speaker	University	10 Feb 2019
44	Taklimat dan Bengkel FRGS dan geran-geran KPM di Fakulti Kejuruteraan Kimia	Invited Speaker	University	11 Feb 2019
45	Taklimat dan Bengkel FRGS dan geran-geran KPM di Fakulti Kejuruteraan Mekanikal	Invited Speaker	University	12 Feb 2019
46	Taklimat dan Bengkel FRGS dan geran-geran KPM di Fakulti Kejuruteraan Awam	Invited Speaker	University	14 Feb 2019

47	Taklimat KPI Penyelidikan dan Sistem PRINCE IRMI di Fakulti Kejuruteraan Mekanikal	Invited Speaker	University	20 Feb 2019
48	Taklimat dan Bengkel FRGS dan geran-geran KPM di Pusat Asasi UiTM Dengkil	Invited Speaker	University	21 Feb 2019
49	Bengkel Penerangan dan Verifikasi system Prisma	Invited Speaker	University	21 Nov 2018
50	FMIA workshop: Review paper writing	Invited Speaker	University	14-15 Nov 2018
51	Journal Editors Grooming Workshop	Invited Speaker	University	29 Okt. 2018
52	IGS Writing Skills Seminar, IPSIS	Invited Speaker	University	22 Okt. 2018
53	Workshop on journal manuscript editing and submission	Invited Speaker	University	3 Sept. 2018
54	Seminar Frontier Materials and Industrial Application 2018	Invited Speaker	University	4 Sept 2018
55	Workshop on journal manuscript reviewing and language editing	Invited Speaker	University	28-30 Ogos 2018
56	Bengkel Penulisan Jurnal 2018 – Emerging Research Leaders Series (ERLS),	Invited Speaker	University	25-27 Julai 2018
57	Bengkel Pemantauan Prestasi HICoE dan CoE Tahun 2018, UiTM	Invited Speaker	University	May-July 2018
58	Bengkel Manuscript submission workshop: Indexed and High Impact Journal	Invited Speaker	University	7-8 Feb 2018
59	Program Taklimat MyRA dan Geran FRGS di Fakulti Kejuruteraan Kimia	Invited Speaker	University	9 Feb 2018
60	Taklimat Geran TRGS – Kriteria, Panduan dan Tips Permohonan, Bidang Keutamaan dan Kriteria Penilaian	Invited Speaker	University	13 Feb 2018
61	Program Sesi Perkongsian oleh Ketua Projek Geran TRGS yang Berjaya dan Pemurnian Deraf Permohonan Penyelidik	Invited Speaker	University	14 Feb 2018
62	Taklimat Geran FRGS Pusat Asasi UiTM	Invited Speaker	University	23 Feb 2018
63	Program Taklimat Geran FRGS di Fakulti Kejuruteraan Mekanikal	Invited Speaker	University	26 Feb 2018
64	Penerbitan di Fakulti Perladangan dan Agroteknologi FPA	Invited Speaker	University	5 April 2018
65	Proof of journal paper submission workshop	Invited Speaker	University	11 April 2018
66	IGS Writing Skills Seminar, IPSIS	Invited Speaker	University	18 Apr 2018
67	Writing and Publishing Articles in Indexed Journals ERLS Workshop 2018	Invited Speaker	University	2-4 Mei 2018
68	Penerbitan di UiTM Cawangan Pulau Pinang	Invited Speaker	University	15 Mei 2018
69	Journal Paper Submission Workshop	Invited Speaker	University	30-31 Mei 2018
70	Seminar Entiti Kecemerlangan (EK) Frontier Materials & Industrial Applications 2017	Invited Speaker	University	8 Nov. 2017
71	Bengkel Penulisan Jurnal Berindeks 2017	Invited Speaker	University	12-14 Dis. 2017
72	Kursus Research Expedition Series, ILD Nilai Negeri Sembilan	Invited Speaker	University	15 Nov. 2017
73	Taklimat Penubuhan Research Initiative Group (RIG) dan Geran Research Entity Initiative (REI)	Invited Speaker	University	12 May 2017
74	Bengkel penulisan dan penerbitan artikel berimpak tinggi, UiTM	Invited Speaker	University	16-17 Feb. 2017
75	Taklimat FRGS 1/2017, FKK UiTM	Invited Speaker	University	2 Feb. 2017
76	Bengkel Penilai Geran Penyelidikan FRGS 1/2017, FKA UiTM	Invited Speaker	University	4 Jan. 2017
77	FKM Research Booth Camp	Invited Speaker	University	4 Nov 2016
78	Workshop: How to write research proposal	Invited Speaker	University	9 Nov 2016
79	IGS Writing Skills Seminar, IPSIS UiTM	Invited Speaker	University	17 Oct 2016
80	Bengkel Penulisan EK Bersiri, Fakulti Pergigian, UiTM	Invited Speaker	University	8 Ogos 2016
81	FKK's Research & Consultancy Day Siri II, FKK UiTM	Invited Speaker	University	10 Ogos 2016
82	Bengkel Penulisan EK Bersiri, Fakulti Perubatan, UiTM	Invited Speaker	University	1 Ogos 2016
83	Preparation and Filling up EK5 form using HICoE Instrument	Invited Speaker	University	23 June 2016
84	Development of Centre of Excellence UiTM	Invited Speaker	University	31 May 2016
85	High Impact Publication, FKM, UiTM	Invited Speaker	University	20 April 2016
86	FKM Research Boot Camp 2016	Invited Speaker	University	7-8 April 2016
87	Forum on Final Year Project 2014, FKM, UiTM	Invited Speaker	University	12 March 2014
88	FKM Colloquium	Invited Speaker	University	18 August 2011

E.2 Conference / Seminar / Workshop / Program: Organizer / Committee Member / Editor/ Others

No.	Conference Name	Role	Level	Date
1	2nd World Conference on Byproducts of Palms & their Applications (ByPalma)	Co-Chairman, Session Chair	International	28 – 30 Sept. 2021
2	8th International Conference on Science and Social Research (CSSR2021)	Head of Conf. Management System, Publication, Track Chair, Session Chair	International	8-9 Dec.2021
3	9th Malaysian International Seminar on Antarctica Sultan Mizan Antarctic Research Foundation	Technical Committee	International	25 Oct 2021
4	International Congress on Science, Engineering and Technology 2021 (WCOSET2021)	Chief Editor	International	7-9 March 2021
5	International Conference on Research and Practices in Science, Technology and Social Sciences 2020 (i-CReST2020)	Advisor	International	4 July 2020
6	7th International Conference on Science and Social Research (CSSR2020)	Head of Conf. Management System, Publication, Track Chair, Session Chair	International	9-10 December 2020
7	Symposium on Frontier Materials and Industrial Applications (SFMA2019)	Chairman, Session Chairperson, Journal Guest Editor	National	29 August 2019
8	6th International Conference on Science and Social Research (CSSR2019)	Scientific Committee, Track Chair, Session Chair	International	4-5 December 2019
9	6th International Conference on Applications & Design in Mechanical Engineering 2019 (ICADME2019), Organizer: UNIMAP	Advisory Panel Committee	International	26-27 August 2019
10	5th International Conference on Science and Social Research 2018 (CSSR 2018), Melaka Malaysia	Scientific Committee, Journal Guest Editor, Track Chair, Session Chair	International	5-6 Disember 2018
11	20th International Conference on Mechatronics, Electrical and Mechanical Engineering	International Scientific Committee	International	23 - 24 August 2018
12	International Conference on Engineering and Computing Technology (ICECT2018)	Editorial Board	International	31 Mar 2017 – 1 April 2018
13	4th International Conference on Science and Social Research 2017 (CSSR 2017), Melaka Malaysia	Scientific Committee, Journal Guest Editor, Track Chair, Session Chair	International	6-7 Disember 2017
14	19th International Conference on Magnetism and Materials Science 2017 (ICMMS2017)	International Scientific Committee	International	4 - 5 December 2017
15	International Conference on Engineering and Computing Technology (ICECT2018)	Editorial Board	International	31 Mar 2017 – 1 April 2018
16	3 rd International Conference on Science and Social Research (CSSR2016)	Vice Chairman, Chairperson, Publication committee	International	6-7 December 2016
17	3rd National Conference on Knowledge Transfer (ICKT2016) Organizer: USM	Author and Paper Presenter	National	30 Nov. – 1 Dec 2016
18	18th International Conference on Nano and Materials Science 2016 (ICNMS 2016)	International Scientific Committee	International	18 - 19 August 2016
19	International Conference on Advances in Mechanical Engineering 2015 (ICAME2015)	Vice Chairman, Organizer, Session Chairperson	International	26-27 August 2015
20	Malaysian International Tribology Conference 2015 (MITC2015)	Publication committee, Session Chairperson	International	16-17 November 2015
21	International Conference on Material, Mechatronics, Manufacturing and Mechanical Engineering 2014 (ICMMMM2014)	Technical committee member	International	24-25 October 2014
22	International Symposium on Materials Characterisation and Testing 2014 (ISMCT2014)	Technical committee member	International	14-15 May 2014
23	Malaysian International Tribology Conference 2013 (MITC 2013)	Secretary, Session Chairperson,	International	18 - 20 Nov. 2013
24	International Conference on Advances in Mechanical Engineering 2013 (ICAME 2013)	Publication committee, Session Chairperson	International	28 - 29 August 2013

25	2012 International symposium on robotics and intelligent sensors (IRIS 2012)	Committee member	International	4 - 6 Sept 2012
26	The Asian International Conference on Materials, Minerals and Polymer (MAMIP2012)	Session Chairperson	International	23 - 24 March 2012
27	Malaysian Symposium on Advances in Powder Metallurgy and particulate Materials 2007	Vice Chairman, Organizing committee	International	21 – 22 August 2007
28	National Conference on Advances in Mechanical Engineering 2005 (NAME'05)	Committee member, Rapporteurs	National	18 – 20 May 2005
29	Invention, Innovation & Design Exposition 2020 (IIDEX2020)	Organizing Committee	National	21 – 25 Sept. 2020
30	Seminar on Water & Wastewater Wealth and Hari EK FMIA	Chairman, Session Chairperson	National	29 August 2019
31	Invention, Innovation & Design Exposition 2019 (IIDEX2019)	Head, Product Pitching Committee	National	10-15 Sept 2019
32	Seminar on Frontier Materials & Industrial Application SFMIA2018	Chairman, Session Chairperson Journal Guest Editor	National	4 Sept 2018
33	Invention, Innovation & Design Exposition 2018 (IIDEX2018)	Product Pitching Committee	National	24-28 Sept 2018
34	Bengkel Penggubalan dasar sains dan teknologi Malaysia Organizer: Akademi Sains Malaysia	Policy Maker Committee MPSTI 2021-2030 Formulation study stragic trust 4: Energizing industries	National	25 Okt 2018
35	Lawatan visibiliti dan kolaborasi Universiti Teknologi MARA (UiTM) dengan Universiti Pertamina, Jakarta, Indonesia, Universiti Indonesia (UI), Jakarta, Indonesia dan Institut Teknologi Bandung (ITB), Bandung, Indonesia	Head of deligation	International	5 - 8 Mac 2018
36	Sesi pembentangan permohonan projek Malaysia Laboratories for Academia-Business Collaboration (MyLAB) 2/2017, Organizer: KPM	IRMI Representative	National	14 Mac 2018
37	National Innovation and Creative Economy Expo 2017 (NICE'17), Organizer: MOSTI	Presenter	National	12-16 Okt 2017
38	Invention, Innovation & Design Exposition 2017 (IIDEX2017)	Head of Product Pitching	National	25-29 Sept. 2017
39	Invention, Innovation, Design & Expo (iidex2016)	Head of Product Pitching	National	20-23 Sept. 2016
40	Research innovation Symposium and Exposition 2015 (RISE2015), Organizer: UiTM & MOSTI	Committee Member, Organizer	National	15-16 November 2015
41	Materials Lecture Competition 2015 Organizer: Institute of Materials Malaysia (IMM)	Organizing Committee member	National	November 2014 – Mei 2015
42	Materials Lecture Competition 2014 Organizer: Institute of Materials Malaysia (IMM)	Organizing Committee member	National	November 2013 – Mei 2014
43	1st International Material Symposium cum Material Lecture Competition (MLC2013). Organizer: Institute of Materials Malaysia (IMM)	Committee member	National	30 May 2013
44	Seminar on Failure Analysis of Metallic and Composite Materials 2011	Committee member	National	14-15 Sept. 2011
45	Seminar on Fundamental of Powder Metallurgy in Metal Matrix Composites Application	Organizing committee	National	29 Jan 2007
46	Seminar IRPA 2006	Committee member	National	26-27 June 2006
47	Workshop on how to strike MOSTI ICF Grant	Head of Program, Moderator	University	21 July 2020
48	FMIA workshop: Journal Paper Writing	Head of Program, Organizer	University	16-17 July 2019
49	FMIA workshop: Journal Paper Editing	Head of Program, Organizer	University	24-25 July 2019
50	Emerging Research Leaders Series (ERLS) FMIA workshop: Journal Paper Writing and Submission at ILD	Head of Program, Organizer	University	31 July – 2 August 2019
51	FMIA workshop: Journal Paper Writing & Submission	Head of Program, Organizer	University	6-7 August 2019
52	Bengkel Pemantauan Prestasi HICoE dan CoE Tahun 2018, UiTM	Head of Program, Organizer	University	May-July 2019
53	Bengkel penerangan Instrumen HICOE 2015	Head of Program, Organizer	University	3 April 2019
54	Review Paper Writing Workshop	Head of Program, Organizer	University	9-10 Januari 2019

55	Bengkel Penulisan dan P2P bersama UiTM Pasir Gudang, Johor	Head of Program, Organizer	University	16-18 Januari 2019
56	Bengkel Penerangan dan Verifikasi system Prisma	Head of Program, Organizer	University	21 Nov 2018
57	FMA workshop: Review paper writing	Head of Program, Organizer	University	14-15 Nov 2018
58	Journal Editors Grooming Workshop	Head of Program, Organizer	University	29 Okt. 2018
59	Workshop on journal manuscript editing and submission	Head of Program, Organizer	University	3 Sept. 2018
60	Workshop on journal manuscript reviewing and language editing	Head of Program, Organizer	University	28-30 Ogos 2018
61	Bengkel Penulisan Jurnal 2018 – Emerging Research Leaders Series (ERLS)	Head of Program, Organizer	University	25-27 Julai 2018
62	Bengkel Pemantauan Prestasi HICoE dan CoE Tahun 2018, UiTM	Head of Program, Organizer	University	May-July 2018
63	Bengkel Manuscript submission workshop: Indexed and High Impact Journal	Head of Program, Organizer	University	7-8 Feb 2018
64	Taklimat Geran TRGS – Kriteria, Panduan dan Tips Permohonan, Bidang Keutamaan dan Kriteria Penilaian	Head of Program, Organizer	University	13 Feb 2018
65	Program Sesi Perkongsian oleh Ketua Projek Geran TRGS yang Berjaya dan Pemurnian Deraf Permohonan Penyelidik	Head of Program, Organizer	University	14 Feb 2018
66	Bengkel Penulisan Jurnal 2018 – Emerging Research Leaders Series (ERLS),	Head of Program, Organizer	University	9 April – 31 Dec 2018
67	Proof of journal paper submission workshop	Head of Program, Organizer	University	11 April 2018
68	Writing and Publishing Articles in Indexed Journals ERLS Workshop 2018	Head of Program, Organizer	University	2-4 Mei 2018
69	Journal Paper Submission Workshop	Head of Program, Organizer	University	30-31 Mei 2018
70	Seminar on Frontier Materials & Industrial Applications 2017	Head of Program, FMA Research Highlights eBook Editor	University	8 Nov. 2017
71	Bengkel Penulisan Jurnal Berindeks 2017	Head of Program, Technical & Language Editor	University	12-14 Dis. 2017
72	Hari Entiti Kecemerlangan (EK) UiTM	Head of Program, Organizer	University	13 Nov. 2017
73	Bengkel Penilaian Manuskrip Pertanika Vol. 1, Vol. 2, Vol. 3,	Head of Program, Evaluation Panel	University	16 Jun 2017, 21 Jun 2017
74	Bengkel Pemurnian Kertas kerja ; Malaysian Toray Science foundation (MTSF)-Science and technology Research Grant (STRG)	Head of Program, Organizer	University	8 May 2017
75	Bengkel penulisan dan penerbitan artikel berimpak tinggi	Head of Program, Technical & Language Editor	University	16-17 Feb. 2017
76	Bengkel verifikasi data MyRA 2016 Siri II	Facilitator	University	14 Feb. 2017
77	Research Summit Day (RSD 2017)	Head of HICoE/CoE exhibition booth	University	18 Jan. 2017
78	Research Book Writing Workshop	Head of Program, Organizer	University	21 Dec 2016
79	Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) (MeTPI-5 2016)	Facilitator	University	15-18 November 2016
80	Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) (MeTPI-4 2016)	Facilitator	University	1-3 Jun 2016
81	Bengkel Geran Bestari	Facilitator	University	27 Jun 2016
82	FKM Materials Lecture Competition 2015	Head of Program	University	Dec 2014 – May 2015
83	Scientific Equipment Workshop, FKM	Facilitator	University	17 Feb 2015
84	Basic Webpage Development Workshop	Head of Program, Organizer	University	23 April 2015
85	Seminar on Thermal Analysis and UV Curing Technology	Head of Program, Organizer	University	15 April 2014
86	Workshop on Mechanics, Materials and Dynamics	Head of Program, Organizer	University	14-16 April 2014
87	Seminar Penerbitan dan Penulisan Teknikal FKM 2004	Committee member	University	10 May 2004
88	Seminar Pasca-Siswazah	Committee member	University	15 April 2003

E.3 Conference Paper(s) Reviewer

No.	Conference Name	Date
1	8th International Conference on Science and Social Research (CSSR2021)	8-9 Dec.2021
2	7th International Conference on Science and Social Research (CSSR2020)	9-10 Dec.2020
3	International Conference on Applications & Design in Mechanical Engineering 2019 (ICADME2019)	21 May 2019
4	6th Mechanical Engineering Research Day (MERD'19)	13 May 2019
5	Symposium on Frontier Materials and Industrial Applications (SFMIA2019)	29 August 2019
6	6th International Conference on Science and Social Research (CSSR2019)	4-5 Dec 2019
7	5th International Conference on Science and Social Research 2018 (CSSR 2018)	5-6 Desember 2018
8	22nd International Conference on Wear of Materials, Miami, Florida, USA.	14-18 April 2019
9	Conference of Green technology and sustainable development 2018	24 Oct 2018
10	4th International Conference on Science and Social Research 2017 (CSSR 2017)	6-7 Desember 2017
11	5th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017)	16-18 August 2017
12	International Conference on Advanced Manufacturing System and Process 2016 (APSIM2016)	28-30 August 2016
13	3rd International Conference on Science and Social Research (CSSR2016)	6-7 December 2016
14	2016 Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronic Engineering Technology International Conference (AR4MET2016)	12-14 April 2016
15	4th International Conference on Advanced Materials Design and Mechanics	20-21 August 2016
16	2016 4th International Conference on Metallurgy Technology and Materials	21-22 May 2016
17	2016 International Colloquium on Sport Science, Exercise, Engineering and Technology	20-22 Nov. 2016
18	Advanced Materials Conference (AMC2016)	28-29 Nov 2016
19	International Conference on Advances in Mechanical Engineering 2015 (ICAME2015)	26-27 August 2015
20	Malaysian International Tribology Conference 2015 (MITC2015)	16-17 Nov 2015
21	2015 Advancement on Mechanical and Manufacturing Engineering Technology (ADMMET'2015)	8 April 2015
22	3rd International Civil and Infrastructure Engineering Conference 2015 (InCIEC 2015)	22 June 2015
23	2015 Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronic Engineering Technology International Conference (AR4MET2015)	5 May 2015
24	International Conference on Advanced Mechanics, Power and Energy 2015 (AMPE2015)	9 Nov. 2015
25	Advancement in Petroleum and Chemical Engineering Technology and Applications International Conference 2015 (APCETA2015)	11 Nov 2015
26	International Conference on Applied Sciences & Industrial Technology 2015 (ICASIT2015)	15 Oct. 2015
27	2nd International Conference on Science and Social Research (CSSR2015)	5-6 Oktober 2015
28	International Conference on Material, Mechatronics, Manufacturing and Mechanical Engineering 2014 (ICMMMM2014)	24-25 October 2014
29	International Colloquium on Sports Science, Exercise, Engineering & Technology	7-9 April 2014
30	International Postgraduate Colloquium on Science and Technology 2014 (IPCOST)	7-8 April 2014
31	2nd International Conference on System-Integrated Intelligence: Challenges for Product and Production Engineering 2014 (SysInt 2014)	20 Mac 2014
32	2nd International Conference on Advanced Micro and Nanocomposite for Engineering 2014	11 February 2014
33	International Colloquium on Textile Engineering, Fashion, Apparel & Design 2014	2 January 2014
34	Malaysian International Tribology Conference 2013 (MITC 2013)	18 - 20 Nov 2013
35	International Conference on Nanomaterials: Science, technology and Application (ICNM'2013)	31 October 2013
36	International Conference on the Science and Engineering of Materials 2013 (ICoSEM2013)	30 December 2013
37	3rd International Conference and Exhibition on Sustainable Energy and Advanced Materials	5 August 2013
38	International Civil and Infrastructure Engineering Conference 2013 (InCIEC 2013)	25 June 2013
39	4th International Graduate Conference on Engineering Science & Humanity 2013	1 March 2013
40	2012 International symposium on robotics and intelligent sensors (IRIS 2012)	4 - 6 Sept 2012
41	Seminar on Frontier Materials & Industrial Application SFMIA2018	4 Sept 2018
42	2nd Advanced Materials Conference (AMC 2014)	15 Desember 2014
43	2014 IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2014)	7-9 April 2014

F. SPECIAL APPOINTMENT AND EXPERTISE: THESIS EXAMINER / JUDGE / EVALUATION PANEL / OTHER APPOINTMENTS (Selected)

F.1 MSc/PhD Thesis Examiner (International / National / University)

No.	Appointment title	Thesis Title	PhD / Master	University Name	Date of Appointment
1	External Examiner	Biocompatibility and bioactivity of pennistum purpureum reinforced biodegradable polyactic acid (PLA) for tissue engineering (Student: Revati A/P Radakisnin)	PhD	Universiti Malaysia Perlis (UNIMAP)	23/12/2021
2	External Examiner	Effect Of Gating Architecture On The Casting Quality Of Sand Casting Process (Student: I.Rajkumar, Reg. No. 201614271)	PhD	Kalasalingam University, India	28/2/2022
3	Internal Examiner	Development of A Novel Failure Prediction Tool for Hybrid Composite Laminates Based on Combine Lamination and Failure Theories (Student: Mohamad bin Mali; 2019526525)	PhD	Universiti Teknologi MARA (UiTM)	21/2/2022
4	External Examiner	Effects of nanofillers on the mechanical and water absorption properties of surface treated natural fibre (Flax/PLA, Jute) reinforced composites (Student: Adnan Amjad)	PhD	Universiti Sains Malaysia (USM)	6/10/2021-31/12/2021
5	External Examiner	Physio-Mechanical and Thermal Properties of Rice Husk and Cocopeat Reinforced Acrylonitrile Butadiene Styrene Hybrid Biocomposites (Student: Nurul Haziatul Ain Binti Norhasnan)	MSc	Universiti Teknologi Malaysia (UTM)	26/4/2021-16/6/2021
6	External Examiner	Electromagnetic interference (EMI) shielding performance and mechanical properties of the carbon nanotubes (CNTs) epoxy reinforced composites (Student: Emayaruba A/P G Barathi Dassan)	MSc	Universiti Sains Malaysia (USM)	24/2/2021-27/4/2021
7	External Examiner	Evaluation of the mechanical properties of natural fibre (Jute, Hemp, Flax) reinforced polypropylene composites. (Student: Habib Awais)	PhD	Universiti Sains Malaysia (USM)	9/3/2020
8	External Examiner	Loading rate effects on mode I interlaminar fracture toughness of laminated composite (Student: Imee Lister Daungkil)	MSc	Universiti Sains Malaysia (USM)	8/11/2019
9	External Examiner	Mechanical properties of low doped graphite polyurethanes from renewable based oils (Student: Mohamad Saddam bin Kamaruddin; HD160040)	MEng	Universiti Tun Hussein Onn Malaysia (UTHM)	17/12/2019
10	External Examiner	Experimental Study On Thermal And Mechanical Properties Of Abs Polymer Matrix Reinforced With PTFE Polymer Particle Composites (Student: Mahesh Kumar R)	PhD	Kalasalingam University, India	19/11/2019
11	Internal Examiner	Effect of layer arrangement on the post impact open hole tensile kenaf-fibreglass hybrid laminate (Student: Syarifah binti Yunus; 2012265014)	PhD	Universiti Teknologi MARA (UiTM)	10/9/2019
12	External Examiner	Siam Weed Based Hydrogel Hybrid for tissue engineering (Student: Nor Shamsiah binti Mohamed)	MEng	Universiti Tun Hussein Onn Malaysia (UTHM)	18/9/2019
13	External Examiner	Development and characterization of kenaf/bamboo fibre- reinforced Epoxy hybrid composites (Student: Ahmad Safwan bin Ismail; GS46799)	MSc	Universiti Putra Malaysia (UPM)	31/7/2018
14	Internal Examiner	Mathematical modelling of laminate failure and deformation behaviour based on high order shear deformation theory and failure criteria (Student: Azizul Hakim bin Samsudin; 2014646716)	PhD	Universiti Teknologi MARA (UiTM)	03/07/2018

15	External Examiner	An acoustic characterization of petroleum and renewable based polyurethane foam incorporated with natural fiber filler as sound absorbing material (Student: Muhammad Shafiq bin Mohd Azahari)	MEng	Universiti Tun Hussein Onn Malaysia (UTHM)	6/6/2018
16	External Examiner	Influence of aviation and blended alternative fuel on the mechanical properties of glass-fiber reinforced epoxy composites (Student: Sharmendran A/L Kumarasamy)	MSc	Universiti Sains Malaysia (USM)	20/3/2018
17	External Examiner	Static and Dynamic Behaviour of natural fibres hybrid composites (Student: Muhamad Shahirul bin Mat Jusoh)	PhD	Universiti Teknologi Malaysia (UTM)	24/8/2017
18	External Examiner	Water absorption behaviour and its effect on the mechanical properties of hybrid interwoven cellulosic fibre composites (Student: Maslinda binti Abu Bakar@Yahaya)	MSc	Universiti Malaysia Perlis (UNIMAP)	24/2/2017
19	External Examiner	Design and Fabrication of Eco-Friendly Prosthetic Leg Socket Made from Woven Kenaf-Glass Fibre Hybrid Composite (Student: Nurhanisah binti Mohd Hawari; GS39002)	MSc	Universiti Putra Malaysia (UPM)	17/2/2017
20	Internal Examiner	Tribological Behaviours and Performance of Brake Friction Materials (Student: Aznifa Mahyam Zaharudin; 2008349353)	PhD	Universiti Teknologi MARA (UiTM)	29/2/2016
21	External Examiner	Formulation and Testing of a Nigeria-Based Crop Oil for Automotive Shock Absorber Application (Student: Bingfa Bongfa)	PhD	Universiti Teknologi Malaysia (UTM)	5/9/2016
22	External Examiner	Thermo-Mechanical Properties of Napier Filled polyester Composites (Student: Fartini binti Mohd Suhut)	MSc	Universiti Malaysia Perlis (UNIMAP)	12/ 1/2016
23	Internal Examiner	Hydrodynamic Ram Ballistic Limit Analysis of Aluminium Tank (Student: Mohd Rozaiman Aziz; 2010677034)	PhD	Universiti Teknologi MARA (UiTM)	31/12/2015
24	External Examiner	Mechanical, Impact and Post-impact characteristics of filament wound basalt/epoxy tubes (Student: Iqbal bin Mokhtar)	PhD	Universiti Teknologi Malaysia (UTM)	20/5/2015
25	External Examiner	Biomimetics design of bullet proof shield (Student: Chong Lip Gang)	MEng	Universiti Teknologi Malaysia (UTM)	30/4/2015
26	Internal Examiner	The study on the tensile strength of fibreglass and kenaf reinforcement composite (hybrid) under post impact and open hole (Student: Zuraidah Binti Salleh; 2007131353)	PhD	Universiti Teknologi MARA (UiTM)	1/3/2014
27	Internal Examiner	Structural health monitoring of honeycomb composite for aircraft structure using fiber bragg gratings (Student: Ramzyan bin Ramly; 2010860388)	PhD	Universiti Teknologi MARA (UiTM)	1/4/2014
28	Adhoc Examiner Committee Member	Three Dimensional Analysis Of Thermal Pad	PhD	Universiti Teknologi MARA (UiTM)	23/4/2014
29	Internal Examiner	Modelling and analysis of pressure vessel using FEM (Student: Haszeme Abu Kasim; 2011646912)	MSc	Universiti Teknologi MARA (UiTM)	10/12/2013
30	Internal Examiner	Investigation on matrix transformation, microstructure constituents and mechanical properties of ductile iron at different temperatures of new heat treatment process (Student: Mohd Faizul Idham Mohd Zulkifli; 2009594351)	MSc	Universiti Teknologi MARA (UiTM)	20/5/2013
31	Internal Examiner	Corrosion study on Cobalt Nickel Iron Nanoparticles electrodeposited on different metals	Conversion MSc to PhD	Universiti Teknologi MARA (UiTM)	16/01/2013

F.2 Judge / Evaluation Panel/ Viva Chairperson (International / National / University)

No.	Appointment title	Appointment Details	Level	Date of Appointment
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1	Evaluation Panel	Panel penilai Pusat kecemerlangan Pendidikan Tinggi (HICoE), Higher Education. Organizer: Ministry of Higher Education (MoHE)	National	17/5/2022
2	Evaluation Panel	Panel penilai bagi konsortium kecemerlangan penyelidikan (KKP), Higher Education. Organizer: Ministry of Higher Education (MoHE)	National	23/5/2022
3	Judge	32nd International Invention, Innovation & Technology exhibition (ITEX'21), Organizer: Malaysian Invention and Design Society (MINDS)	International	13/12/2021
4	Evaluation Panel	Penilaian Dana Penyelidikan Kementerian Pengajian Tinggi Tahun 2021-2022 Ministry of Higher Education. Organizer: Ministry of Higher Education (MoHE)	National	1/1/2021- 31/12/2022
5	Evaluation Panel	Panel Penilai Skim Geran Penyelidikan Fundamental (FRGS) Tahun 2020, Organizer: MoHE	National	1/1/2020- 31/12/2020
6	Evaluation Panel	Program Dana Penyelidikan Kementerian Pendidikan Malaysia (DP KPM) Tahun 2020, JPT KPM. Organizer: MoHE	National	1/1/2020- 31/12/2020
7	Chairman	Working group WG/J/2-3 for Polybutylene (PB) Pipes and Fittings Department of Standard Malaysia, Organizer: Ministry of International Trade and Industry (MITI)	National	18/9/2020- 31/12/2020
8	Evaluation Panel	Panel Penilai Dana Penyelidikan Kementerian Pendidikan Malaysia (DP KPM) TAHUN 2019, JPT KPM	National	1/1/2019- 31/12/2019
9	International Advisor	National Institute of Technology, UBE College, Japan Summer Research Programme 2019	International	1/7 – 30/9/2019
10	Judge	30th International Invention, Innovation & Technology Exhibition 2019 (ITEX2019), Organizer: MINDS	International	2/5-4/5/2019
11	Judge	Pertandingan program Kreativiti dan Inovasi (CIP). Organizer: Indah Water Konsortium (IWK) Sdn Bhd	National	12/12/2019
12	Evaluation Panel	FRGS AND FRGS Racer Grant. Kementerian Pendidikan Malaysia	National	1/4/2019- 30/9/2019
13	Evaluation Panel	FRGS Grant Kementerian Pendidikan Malaysia	National	23/4/2019- 26/4/2019
14	Evaluation Panel	Panel Penilai Dana Penyelidikan Kementerian Pendidikan Malaysia (DP KPM) Tahun 2018, JPT KPT	National	1/1/2018- 31/12/2018
15	Judge	29th International Invention, Innovation & Technology Exhibition 2018 (ITEX2018), Organizer: MINDS	International	10-12/5/2018
16	Judge	28th International Invention, Innovation & Technology Exhibition 2017 (ITEX2017), Organizer: MINDS	International	11-13/5/2017
17	Judge	Program: 27th International Invention, Innovation & Technology Exhibition 2016 (ITEX2016) Organizer: MINDS	International	12-14/5/2016
18	Evaluation Panel	Panel Penilai Program SAC Biasiswa JPA Tahun 2016, Jabatan Perkhidmatan Awam (JPA)	National	18/4/2016- 22/4/2016
19	Evaluation Panel	Panel Penilai Program SAC Universiti Terkemuka Tahun 2015, JPA	National	24/6/2015- 25/6/2015
20	Evaluation Panel	Mock Audit EAC 2015, Universiti Malaysia Pahang	National	09/6/2015- 10/6/2015
21	Chairperson	Malaysia International Tribology Conference, Organizer: Malaysian Tribology Society MyTribos	National	16/11/2015- 17/11/2015
22	Judge	26th International Invention, Innovation and Technology Exhibition (ITEX 2015), Organizer: MINDS	International	21–23/5/2015
23	Judge	Research innovation Symposium and Exposition 2015 (RISE2015). Organizer: UiTM	National	15-16/11/2015
24	Judge	Competition & Exhibition Invention, Innovation, Art & Design (IIAD2015). Organizer: UiTM	National	2/4/2015
25	Judge	25th International Invention, Innovation and Technology Exhibition (ITEX 2014) Organizer: MINDS	International	8-10/5/2014
26	Review Panel	Institution of Higher Learning (IHL) Jabatan Pengajian Politeknik Kementerian Pendidikan	National	26/9/2014

		Malaysia National		
27	Interview Panel	Scholarship Programs 2014 of Kementerian Pendidikan Malaysia. National	National	2/6/2014
28	Judge	24th International Invention, Innovation and Technology Exhibition (ITEX 2013) Organizer: MINDS	International	9-11/5/2013
29	Judge	23rd International Invention, Innovation and Technology Exhibition (ITEX 2012) Organizer: MINDS	International	17-19/5/2012
30	Examiner	Student Assessment Centre (SAC) 2012, Organizer: JPA	National	8-10/5/2012
31	Head of TE Domain	Dana Penyelidikan KPT (FRGS) Peringkat UiTM	University	1/1- 31/12/2022
32	Evaluation Panel	Defense Research Proposal Kolej Pengajian Kejuruteraan	University	3/2022
33	Evaluation Panel	Industrial Training	University	1/9/2021- 31/12/2021
34	Evaluation panel & 2nd Examiner	MEC411 Mechanics of Materials	University	1/3/2021- 31/7/2021
35	Evaluation Panel	Audit Dokumen Permohonan Program HCoE IPPerform	University	20/10/2021
36	Evaluation Panel	Audit Dokumen Pusat kecemerlangan CoE Integrative Pharmacogenomics Institute (iPROMISE)	University	11/10/2021- 15/10/2021
37	Evaluation Panel	Audit Dokumen Pusat kecemerlangan CoE Solar Research Institute (SRI)	University	8/11 – 12/11/2021
38	Evaluation Panel	Audit Dokumen Pusat kecemerlangan CoE Smart Manufacturing Research Institute (SMRI)	University	1/11 – 10/11/2021
39	Evaluation Panel	Dana penyelidikan Kementerian pengajian Tinggi peringkat UiTM	University	1/1- 31/12/2021
40	Evaluation Panel	Malaysia Laboratories for Academia-Business Collaboration (MyLAB) Grant	University	1/1- 31/5/2021
41	Evaluation Panel	Geran Dalaman UiTM: LESTARI, SRP, KEPU, GRR	University	1/1- 31/12/2021
42	Evaluation Panel	Defense Research Proposal Kolej Pengajian Kejuruteraan	University	5/5/2021
43	Viva Chairman	Viva voce: MSc Jeeventh Kubenthiran	University	12/5/2020
44	Evaluation Panel	Industrial Training	University	1/7/2020 - 31/12/2020
45	Evaluation Panel	Lestari Covid Grant	University	16/9/2020
46	Evaluation Panel	Dana Penyelidikan KPT Peringkat UiTM	University	1/1/2020 - 31/12/2020
47	Viva Chairman	Viva voce: MSc Alyasa Bin Jais (Fakulti Peladangan dan Agroteknologi)	University	17/12/2019
48	Evaluation Panel	Industrial Training	University	1/7/2019 - 31/12/2019
49	Viva Chairman	Viva voce: MSc Nuratiqah syahirah binti mohd Zarib.	University	8/11/2019
50	Evaluation Panel	DRP: PhD Izatul Hamimi Abdul Razak		15/1/2019
51	Evaluation Panel	DRP: PhD Masnawi bin Mustafa		26/6/2019
52	Evaluation Panel	DRP: PhD Ahmad Hamizi bin Ahmad Kamal		28/6/2019
53	Evaluation panel & 2nd Examiner	MEC611 Advanced mechanics of Materials	University	1/3/2019 - 29/2/2020
54	Evaluation panel & 2nd Examiner	MEC612 Fracture Mechanics	University	1/3/2019 - 29/2/2020
55	Head	Evaluation panel for Uppgrading Entiti KecemerlNgan Tier 4 AAEC to CoE Tier 3	University	14/9 – 10/11/2020
56	Evaluation Panel	Dana Penyelidikan Kementerian Pengajian Tinggi (DPKPM) Grant UiTM	University	1/1/2019 - 31/12/2019
57	Viva Chairman	Viva voce: MSc Muhammad Aiman bin Ahmad UiTM	University	22/2/2019
58	Evaluation Panel	Program Pemantauan dan Audit Prestasi CoE: Institute of Infrastructure Engineering & Sustainable Management	University	3/7/2019
59	Evaluation Panel	Program Pemantauan dan Audit Prestasi CoE: Institute of Pathology, Laboratory and forensic Medicine	University	30/8/2019
60	Evaluation Panel	Program Pemantauan dan Audit Prestasi CoE: Institute of Science UiTM	University	12/7/2019
61	Evaluation Panel	Geran Lestari Kursi Raja-raja Melayu	University	14/10/2019
62	Evaluation Panel	Program Pemantauan dan Audit Prestasi CoE:	University	26/7/2019

		Microwave Research Institute		
63	Head of Evaluation Panel	Pembentangan permohonan penubuhan EK baru	University	1/1/2019
64	Head of Technology & Engineering (TE) Cluster	Bengkel penilaian akhir FRGS Kluster Technology & Engineering	University	9/4/2019
65	Head of Group & Presenter	Bengkel Pengukuhan dan perancangan strategik penyelidikan UiTM	University	16/2/2019
66	Chairman	PRGS presentation session		18/02/2018
67	Evaluation Panel	Industrial Training	University	1/7/2018- 31/12/2018
68	Evaluation Panel	Program naiktaraf Research Group: Industrial Process Reliability & Sustainability	University	7/5/2018
69	Head of cluster	Technology & Engineering Cluster KPT Grants at UiTM level	University	1/1/2018- 4/6/2018
70	Chairman	PRGS presentation session	University	18/2/2018
71	Evaluation panel & 2nd Examiner	MEC612 Fracture Mechanics	University	5/9/2017- 28/2/2019
72	Evaluation panel & 2nd Examiner	MEC611 Advanced mechanics of Materials	University	21/2/2018- 31/8/2018
73	Evaluation panel	CoE Performance Audit: Microwave Research Institute	University	29/3/2018
74	Evaluation Panel	Audit document for Antenna Research Centre	University	27/8/2018
75	Evaluation Panel	Industrial Training	University	01/9/2018- 31/10/2018
76	Evaluation Panel:	CoE Performance Audit: Institute of Business Excellence	University	30/3/2018
77	Evaluation Panel	CoE Performance Audit: Institute of Infrastructure Engineering & Sustainable Management	University	09/4/2018
78	Evaluation Panel	CoE Performance Audit: Institute of Science	University	06/4/2018
79	Evaluation Panel	CoE Performance Audit: Malaysian Institute of Transportation	University	6/3/2018
80	Evaluation Panel	CoE Performance Audit: National Design Centre	University	30/4/2018
81	Head of Evaluation Panel	Pembentangan permohonan penubuhan EK baru	University	1/1-31/12/2018
82	Head of Group 7	Program METPI 7 2018 Kumpulan 7 : EK Roar - Rising Of Astounding Research di ILMU Bentong	University	27/2-1/3/2018
83	Head of Technology & Engineering (TE) Cluster	Sesi Penilaian geran FRGS berpusat, Kluster Engineering & Technology, di Dewan Annex	University	22/3/2018
84	Head of Panel	Program Pemantauan dan Audit Prestasi CoE MITRANS	University	26/3/2018
85	Head of Panel	Program Pemantauan dan Audit Prestasi CoE MRI	University	29/3/2018
86	Head of Panel	Program Pemantauan dan Audit Prestasi CoE IBE	University	30/3/2018
87	Head of Panel	Program Pemantauan dan Audit Prestasi HICoE ARI	University	5/4/2018
88	Head of Panel	Program Pemantauan dan Audit Prestasi CoE IOS	University	6/4/2018
89	Head of Panel	Program Pemantauan dan Audit Prestasi CoE IIESM	University	9/4/2018
90	Head of Technology & Engineering (TE) Cluster	Bengkel penilaian FRGS track Technology & Engineering	University	12/4/2018
91	Evaluation Panel	Sesi Penilaian Skim Geran Penyelidikan Fundamental FRGS	University	23-26/4/2018
92	Head of Evaluation Panel	Program Pemantauan dan Audit Prestasi Research Centre (RC) NDC	University	30/4/2018
93	Head of Evaluation Panel	Sesi pembentangan naiktaraf EK tier 5 ke EK tier 4 INPRES	University	7/5/2018
94	Chairperson / Head of Evaluation Panel	Pembentangan Geran Penyelidikan MITRA Perdana 2017	University	29/11/2017
95	Evaluation Panel	Bengkel Penilaian Geran penyelidikan LESTARI 2017 dan GIP 2017	University	19/4/2017
96	Evaluation Panel	Bengkel pemuktamadan penilaian geran FRGS	University	15/3/2017
97	Evaluation Panel	Industrial Training	University	1/7/2017- 31/12/2017
98	Evaluation Panel	Lestari & GIP Grant	University	19/4/2017
99	Evaluation Panel	MITRA perdana Grant	University	29/11/2017

100	Evaluation Panel	Audit document session: Pusat penyelidikan Dasar Socio-Ekonomi	University	10/4/2017
101	Evaluation Panel	Pertanika Journal Vol. 3	University	16/6/2017
102	Evaluation Panel	REI Grant	University	4/12/2017
103	Evaluation Panel	Geran penyelidikan dalaman universiti	University	1/4/2017- 31/3/2019
104	Viva Chairman	Viva voce MSc : Nur Izzah lina binti Azman	University	7/9/2017
105	Viva Chairman	Viva voce : MSc Nor Syahirah binti Mohamad	University	2/5/2017
106	Evaluation Panel	Industrial Training	University	1/9/2017- 31/10/2017
107	Evaluation Panel	Document audit session: Creative Media & Technology Hub	University	29/5/2017
108	Chairman	PRGS Grant presentation session	University	7/2/2017
109	Evaluation panel & 2nd Examiner	MEC411 Mechanics of Materials	University	1/9/2016- 31/8/2017
110	Evaluation panel & 2nd Examiner	MEC611 Advanced mechanics of Materials	University	1/3/2017- 31/8/2017
111	Evaluation Panel	BESTARI Grant	University	23/11/2016- 28/11/2016
112	Interview Panel	Young Lecturer Scheme	University	2011 – 2016
113	Viva Chairperson	Viva voce : MSc Mohamad Firdaus bin Abdul Wahid	University	8/1/2016
114	Evaluation panel	Design Project	University	1/3/2016- 31/7/2016
115	Evaluation Panel	FRGS Grant	University	1/3/2016- 28/2/2017
116	Evaluation Panel	GIP Grant	University	8/6/2016- 06/9/2016
117	Evaluation Panel	Industrial Training	University	1/7/2015- 31/12/2015
118	Evaluation panel & 2nd Examiner	MEC411 Mechanics of Materials	University	1/9/2015-31/8/2016
119	Evaluation panel & 2nd Examiner	MEC612 Fracture Mechanics UiTM	University	1/9/2015- 31/8/2016
120	Judge	Pertandingan Mechanical Design Day 2016 Organizer: IMechE, UiTM Student Chapter	University	11/6/2016
121	Evaluation panel	Research Acculturation Grant Scheme (RAGS), UiTM level	University	5-25/8/2015
122	Evaluation panel	Fundamental Research Grant Scheme (FRGS), FKM	University	1/1-31/12/2015
123	Judge	Invention, Innovation, Art & Design-IIAD 2015 Competition	University	2/4/2015.
124	Viva Chairman	Viva voce MSc Abdul Hakim Ab Rahim, UiTM	University	1/10/2015
125	DRP Chairperson	DRP session	University	4/6/2015
126	Evaluation panel	Industrial Training programme 2015	University	9/9/2015
127	Viva Chairperson	Viva voce PhD Amirul b Abd Rashid	University	29/4/2016
128	Evaluation Panel	MEC612 Fracture Mechanics	University	1/9/2014- 31/12/2015
129	Evaluation Panel	Dissertation MEM799	University	1/9/2014- 31/12/2015
130	Evaluation Panel	FRGS Grant	University	1/1/2015- 31/12/2015
131	Evaluation Panel	Industrial Attachment	University	1/9/2015- 31/10/2015
132	Evaluation Panel	Pembangunan Sumber Manusia	University	14/9/2015
133	Evaluation Panel	Prestasi Pegawai	University	7/12/2015- 14/12/2015
134	Evaluation Panel	Temuduga Biasiswa TPM	University	10/12/2015
135	Evaluation panel	RAGS Grant	University	5/8/2015- 25/8/2015
136	Chairperson	Research Proposal Presentation of MSc candidate (EM750)	University	1/3 – 31/7/2015
137	Chairperson	Pembentangan Cadangan Penyelidikan Pasca Siswazah UiTM	University	08/04/2015
138	Interview Panel	Academic Staff Scholarship	University	1/1/2011 – 31/12/2015
139	Viva Chairperson	Performance Analysis of Thermal Arc Spray Aluminium Coating as a Sacrificial Anode of Subsea Structure, MSc Thesis	University	19/05/2015
140	Viva Chairperson	The development of Finger Rehabilitation Device for Early Stage Paralyzed Stroke Survivor, MSc Thesis	University	01/10/2015
141	Viva Chairperson	Initial Response Analysis of Robot-Based Intervention Program (RBIP) for Children with Autism Using Humanoid Robot Nao, MSc Thesis	University	15/05/2013
142	Viva Chairperson	Study on the Corrosion Behavior of the Electro-Deposited Cobalt Nano-Particles Using Potentiodynamic Polarization, MSc Thesis	University	20/03/2013
143	Evaluation Panel	Program “Student Innovation and Design	University	5/12/2013

		Competition (SIDC2013)"		
144	Evaluation Panel	Knowledge transfer program (KTP) Fund Grant	University	8/5/2013
145	Judge	Materials Lecture Competition, University level	University	27/3/2013
146	Evaluation Panel	Knowledge transfer program (KTP) Grant,	University	1/1 – 28/2/2012
147	Evaluation Panel	Presentation of PhD candidate (EM990/950),	University	2011-2015
148	Evaluation Panel	Presentation of MSc candidate (EM780/750)	University	2011-2015
149	Examiner and Evaluation Panel	Dissertation Presentation of Industrial Project/Business Course (MEM790/MEM798) Master in Engineering Management (EM774/EM704) Program	University	2013-2015
150	Examiner and Evaluation Panel	Proposal Dissertation Presentation of Industrial Project/Business Course (MEM799) Master in Engineering Management (EM774/EM704) Program	University	2013-2015
151	Verifying Panel	Final Examination Question Paper	University	2012-2016
152	Evaluation Panel	Final Year Project 2 (MEC602/ MEM602/ KJM660)	University	2011-2015
153	Evaluation Panel	Final Year Project 1 (MEC601/ MEM601/ KJM650)	University	2011-2015
154	Assessor	Industrial training	University	2013
155	Review Panel	Fundamental Research Grant Scheme (FRGS),	University	18/7/2013
156	Review Panel	Research Acculturation Grant Scheme (RAGS)	University	11/6/2013
157	Evaluation Panel	Materials Lecture Competition 2013 Faculty level	University	20/3/2013
158	Internal Auditor	ISO 9001:2008	University	1/9/2012 – 31/8/2013
159	Evaluation Panel	MEC532 & MEM532 Product and Final presentation	University	2012
160	Internal Auditor	ISO 9001:2008	University	1/2 – 30/4/2012

F.3 International / National Level Committee

No.	Position	Committee Name	Level	Appointment Duration
1	Editor	International journal of Integrated Engineering (IJIE), UTHM	National	26/5/2022 - present
2	Committee Member	Malaysian Standard (MS) MS1058 development under working group WG/J/2-1 for Polyethylene (PE) piping systems for water supply Part 1,2,3,5, and 7. Department of Standard Malaysia, Ministry of International Trade and Industry (MITI)	National	18/9/2020 – present
3	Chairman	Malaysian Standard (MS) MS ISO 15876 development under working group WG/J/2-3 for Polybutylene (PB) pipes and fittings. Part 1,2,3,5, and 7. Department of Standard Malaysia, MITI.	National	18/9/2020 – present
4	Committee Member	Malaysian Standard (MS) development under working group WG/J/2-7 for Polypropylene (PP) pipes and fittings. Part 1,2,3,5, and 7. PP piping system Department of Standard Malaysia, MITI.	National	18/9/2020- 31/12/2021
5	Technical Committee Member	Malaysian Standard (MS) development under Technical Committee on Plastic Tanks (TC/J/5). Department of Standard Malaysia, MITI.	National	27/4/2021 – present
6	Testing witness	Testing witness, AANS Technical & Services Sdn Bhd & Teekay Coupling Ltd UK	International	27/1/2020- 30/1/2020
7	Editorial Board	Journal of Advanced Research in Materials Science, Publisher; Akademia Baru	National	1/1/2020- 31/12/2020
8	Executive member	Bengkel Perancangan strategic Society of Mechanical Engineering Liveliness (SoMEL)	National	1/1-31/12/2018
9	Editorial Advisory Board	MCRJ, Construction Research Institute of Malaysia (CREAM)	National	1/6/2016- 1/6/2016
10	Editorial Board	Jurnal Tribologi, Malaysian Tribology Society (MYTRIBOS)	National	1/1/2014- 31/12/2019
11	Executive committee	Activity Bureau Malaysian Tribology Society	National	8/1/2014- 07/1/2016
12	Executive committee	Publication Bureau Malaysian Tribology Society	National	8/1/2014- 07/1/2016
13	Executive committee	Malaysian Tribology Society	National	1/11/2013- 31/10/2015
14	Committee Member	Publication committee MITC2015 Malaysian Tribology Society	National	25/8/2014- 31/12/2016

15	Committee member	Materials Lecture Competition Institute of Materials Malaysia	National	2/1/2015- 31/05/2015
16	Committee Member	Materials Lecture Competition 2015, Institute of Materials Malaysia	National	19/3/2015.
17	Committee Member	Materials Lecture Competition 2014, Institute of Materials Malaysia	National	14/5/2014
18	Organizing Committee	Semi Final Materials Lecture Competition 2014	National	3 /4/2014
19	Executive committee member	Malaysian Tribology Society	National	2013 – 2015
20	Executive committee member	Persatuan Industri Komposit	National	2013 – 2015
21	Committee Member	Materials Lecture Competition 2013, Institute of Materials Malaysia,	National	31/5/2013
22	Student Advisor	Oman Summer Internship Program	International	19/8-9/9/2013

F.4 Journal Paper Reviewer

No.	Journal Title	Publisher	Indexing	Appointment Duration
1	International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies, ISSN 2228-9860	TuEngr	WoS	2021 - present
2	Defence Technology, ISSN: 2214-9147	Elsevier	Scopus, WoS	2020 - present
3	Journal of Advanced Research in Applied Sciences and Engineering Technology, ISSN: 2462-1943	Akademia Baru	Mycite	2020 - present
4	Composites Science and Technology, ISSN: 0266-3538	Elsevier	Scopus, WoS	2019 - present
5	European Physical Journal - Applied Physics, ISSN: 1286-0042	EDP Sciences	Scopus, WoS	2019 - present
6	Journal of Chemistry, ISSN: 2090-9063	HINDAWI	Scopus, WoS	2019 - present
7	Journal of Industrial Textiles, ISSN: 1528-0837	SAGE	Scopus, WoS	2019 - present
8	Journal of Nanotechnology, ISSN: 1361-6528	IOP Publishing	Scopus, WoS	2019 - present
9	Advances in Mechanical Engineering, ISSN: 1687-8140	SAGE	Scopus, WoS	2018 - present
10	Part C: Journal of Mechanical Engineering Science, ISSN: 0954-4062	SAGE	Scopus, WoS	2018 - present
11	Journal of Engineering Science & Technology, ISSN: 1823-4690	Taylor's University	Scopus, WoS	2018 - present
12	Materials Research Express, eISSN: 2053-1591	IOP Publishing	Scopus, WoS	2018 - present
13	Polymer Composites, ISSN: 1548-0569	Wiley	Scopus, WoS	2018 - present
14	Polymer Engineering & Science, ISSN: 1548-2634	Wiley	Scopus, WoS	2018 - present
15	Composite Structures, ISSN: 0263-8223	Elsevier	Scopus, WoS	2017 - present
16	International Journal of Nano Dimension, ISSN: 2008-8868	Islamic Azad University Iran	Scopus, WoS	2017 - present
17	Iranian Polymer Journal, ISSN: 1026-1265	Springer	Scopus, WoS	2017 - present
18	Sains Malaysiana, ISSN: 0126-6039	UKM	Scopus, WoS	2017 - present
19	Journal of Engineering and Technological Sciences, ISSN: 2337-5779	Institut Teknologi Bandung (ITB)	Scopus, WoS	2016 - present
20	ESTEEM Academic Journal, ISSN: 1675-7939	UiTM	Mycite	2016 - present
21	Pertanika Journal of Science & Technology, ISSN 0128-768	UPM Press	Scopus, WoS	2016 - present
22	Engineering Science and Technology, an International Journal, eISSN: 2215-0986	Elsevier	Scopus, WoS	2016 - present
23	Malaysian Construction Research Journal (MCRJ), eISSN: 2590 - 4140	Construction Research Institute of Malaysia (CREAM)	Scopus	2016 - present
24	Industrial Lubrication and Tribology, ISSN: 0036-8792	Emerald Group publishing	Scopus, WoS	2015 - present
25	Particulate Science and Technology, ISSN: 0272-6351	Taylor & Francis Group	Scopus, WoS	2015 - present

26	Tribology Transactions, ISSN: 1040-2004	Taylor & Francis Group	Scopus, WoS	2015 - present
27	Indian Journal of Engineering & Materials Sciences, ISSN: 0975-1017	National Institute of Science Communication and Information Resources	Scopus, WoS	2014 - present
28	Jurnal Tribologi, ISSN 2289-7232	MYTRIBOS	Scopus, WoS	2014 - present
29	Jurnal Teknologi, ISSN 2180-3722	UTM Press	Scopus, WoS	2014 - present
30	International Journal of Materials Science and Engineering (IJMSE), ISSN: 2315-4527	ETPub	Scopus	2013 - present
31	Journal of Mechanical Engineering, ISSN 1823-5514	UiTM Press	Scopus	2013 - present
32	International Journal of Computational Methods in Engineering Science and Mechanics, ISSN: 1550-2287	Taylor & Francis Group	Scopus, WoS	2005 - present

G. CONSULTANCY/ INDUSTRIAL LINKAGE/ COLLABORATION/MoU/MoA/LoA

No.	Industry / Institution / Agency / Collaborator	Project details / Activities	Role	Duration
1	Coventry University, UK	<ul style="list-style-type: none"> PIC MoU, Research and Academic collaboration Collaborative research Project Joint Publication Joint supervision postgraduate student 	Leader & PIC MoU	2019 - Present
2	Indah Water Konsortium	<ul style="list-style-type: none"> Program Leader & PIC MoU LoA & Collaborative research Project PIC MoA 	Leader, PIC MoU & PIC MoA	2018 - Present
3	Universiti Indonesia (UI), Jakarta, Indonesia	<ul style="list-style-type: none"> Collaborative research Project Joint publication Seminar & Conference Collaborator PIC MoU PIC MoA Joint supervision postgraduate student 	Leader & PIC MoA	2018 - Present
4	Petronas Research Sdn Bhd	<ul style="list-style-type: none"> Program Leader / PIC MoA LoA & Collaborative research Project 	Leader & PIC MoA	2021 - Present
5	Samsung Sdn. Bhd.	<ul style="list-style-type: none"> Program Leader / PIC MoU LoA & Collaborative research Project 	Leader & PIC MoU	2021 - Present
6	Institut Perhutanan Tropika Dan Produk Hutan (INTROP)	<ul style="list-style-type: none"> Collaborative research Project Joint Publication Joint supervision postgraduate student Consultancy: Laboratory testing on various types of "Natural Fibres Reinforced Polymer Composites Laminates" samples Conference Collaborator 	Leader	2018 - present
7	Pusat Kecemerlangan Kejuruteraan & Teknologi JKR (CREaTE)	<ul style="list-style-type: none"> Collaborative research Project Consultancy project: Characterisation of Granite Dust based Engineering Brick Consultancy project: Laboratory testing on optimised formulation of Granite Dust based Engineering Brick 	Leader	2018 - present
8	Carbon Tech Global Sdn Bhd	<ul style="list-style-type: none"> Collaborative research Project Consultancy project: Laboratory testing on new structures based on Glass Fibre Reinforced Polymer Composites Sandwich Panel" MoU 	Leader	2018 - present
9	AANS Technical & Services Sdn. Bhd.	<ul style="list-style-type: none"> Collaborative research Project Joint Publication Product Testing Witness MoU MoA 	Leader & PIC MoA	2020 - Present

10	University of Manchester, UK	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication • Global Research Reputation Grant (GRR) 2020 - 2022 	Leader PIC MoU	2020 - Present
11	Agensi Nuklear Malaysia	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication 	Leader	2018 - Present
12	UNIMAP, UNISEL, UNIKL, UTHM, UTM, Composite Centre, UTEM, UKM, UPM, USM, & UMP	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication • External Examiner • Research Collaborator • Conference Collaborator • Joint Supervision 	Leader	2011 - Present
13	CTRM Testing Laboratory Sdn Bhd, Batu Berendam, Melaka	<ul style="list-style-type: none"> • Research Collaboration • Composite Industry Society 	Leader	2018 - Present
14	Institut Teknologi Bandung (ITB), Bandung, Indonesia	<ul style="list-style-type: none"> • Collaborative research Project • Joint publication • Letter of Agreement (LoA): signed 25 August 2014 • MoU: signed 26-27 August 2015 • Conference Collaborator • External Examiner 	Leader PIC MoU/LoA	2014 - Present
15	Metropolitan Engineers & Builders (MEB) Sdn bhd	Research collaboration entitled Application of basalt fibre reinforced nanocomposite polymer for rehabilitation of deteriorated pipelines and infrastructures.	Leader	2017 – 2019
16	Bakal Sejati Sdn Bhd	Project title: Establishing greener injection moulding system to increase productivity and produce high quality plastic bottles Grant Scheme: Knowledge transfer programme Total fund: RM 144,935	Leader	2014 – 2016
17	Universiti Teknologi Petronas	POC-Nanosilica Composite Development for Production of Biodegradable Bone Plate Project	Project Collaborator	2015 – 2017
18	Universiti Teknologi Malaysia	Pipeline repair using fibre reinforced polymer composite materials – Application of Malaysia Laboratories For Academia-Business Collaboration (MyLAB) 2/2015 Grant	Project Collaborator	2015 – 2017
19	Udayana University, Bali, Indonesia	Academic and research collaborations. LoA: signed 25 August 2014 MoU: signed 26-27 August 2015 Conference co-organizer	Leader PIC MoU/LoA	2014 – 2017
20	Tepat Teknik Sdn Bhd	Consultancy project: DN50-FE modelling facilitation and output analysis	Member	2013 - 2014
21	Cytron Technologies Sdn Bhd	Consultancy project: Microchip workshop	Member	2013 - 2014
22	MHE Demag Malaysia Sdn Bhd	Consultancy project: pull test of restrain socket	Member	2012 - 2013
23	Kalasalingam Academy of Research and Education, India	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication • External examiner 	Leader	2019 - present
24	Vellore Institute of Technology, India	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication • External examiner 	Leader PIC MoA	2019 - present
25	Sakarya University, Turkey	<ul style="list-style-type: none"> • Collaborative research Project • Joint publication • PIC MoU 	Leader PIC MoU PIC LoA/MoA	2020 - present
26	Adigo Ventures Sdn Bhd, MTC Engineering Sdn Bhd, Equatorial Space Systems (ESS) Pte Ltd, Singapore	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication • Strategic Research partnership grant (SRP) • MoU & MoA 	Member	2020 - present

27	São Paulo State University (UNESP) Brazil	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication 	Leader	2020 - present
28	Università degli Studi di Camerino, Italy	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication • Joint Supervision 	Leader	2020 - present
29	King Saud University, Saudi Arabia	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication 	Leader	2020 - present
30	NC State University, USA	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication 	Leader	2020 - present
31	King Abdulaziz University, Saudi Arabia	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication 	Leader	2020 - present
32	Monastir University, Tunisia	<ul style="list-style-type: none"> • Collaborative research Project • Joint Publication • Joint Supervision 	Leader	2021 - present

H. SERVICES (UNIVERSITY / STUDENT/ COMMUNITY INVOLVEMENT)

H.1 University Administration

No.	Position	Department	Appointment Duration
1	Deputy Director (Industrial Technology)	Research Nexus UiTM (ReNeU), The Office of Deputy Vice Chancellor (R&I) UiTM	15/6/2020 – 14/6/2022
2	Director (Frontier Materials and Industrial Application)	Community of Research, Institute of Research Management & Innovation (IRMI) UiTM	1/1/2016 – 31/5/2020
3	Head	Fracture Mechanics & Materials Integrity (FMMI) Research Group Entiti Kecemerlangan Tier 4 UiTM	10/5/2016 - present
4	Associate Member	Institute for Infrastructure Engineering & Sustainable Management (IIESM) UiTM	2/7/2020 – 30/6/2022
5	Fellow	Industrial Research Lab & Micro-Industry Hub with MTC Engineering Sdn Bhd	1/1/2021 – present
6	Head, Centre of Studies (Engineering Mechanics and Materials)	Faculty of Mechanical Engineering, UiTM	1/8/2011 – 31/12/2015
7	Programme Chair	Bachelor of Mechanical Engineering (Hons.) EM220, FKM UiTM	1/3/2012 – 28/2/2016
8	Chief Editor, Journal of Mechanical Engineering (JMecHE)	Faculty of Mechanical Engineering, UiTM	1/1/2005 – 31/2/2006
9	Editor, Journal of Mechanical Engineering (JMecHE)	Faculty of Mechanical Engineering, UiTM	1/1/2004 – 31/12/2004

H.2 University Level Committee (2015-2021, Selected)

No.	Position	Committee Name	Appointment Duration
1	Committee Member	Jawatankuasa Pemandu Pensejajaran Penerbitan PRISMA, MyATP dan kenanikan pangkat	18/8/2021 – 31/12/2021
2	Committee Member	Jawatankuasa MyRA Chief Instigator	16/7/2021 - 15/7/2021
3	Committee Member	Jawatankuasa Induk pemilikan Risiko Pejabat TNCPi	1/1/2021 - 31/12/2022
4	Committee Member	UGC Expert Taskforce Projek UI Green Metric UiTM Green Centre	1/6/2021 - 31/12/2021
5	Head of Domain	Pure and Applied Science bagi geran FRGS peringkat UiTM	1/1/2021- 31/5/2021
6	Head of Domain	Technology and Engineering bagi geran FRGS peringkat UiTM	1/1/2021- 31/5/2021
7	Head of Cluster	Geran KPT peringkat UiTM UiTM	1/1/2021- 31/12/2021
8	Head of Assessor Panel	Naiktaraf Entiti Kecemerlangan Tier 4 AAEC ke CoE Tier 3	14/9/2020- 10/11/2020
9	Program leader / Person in Charge	Memorandum of Agreement between UiTM and Indah Water Konsortium (IWK) UiTM & IWK	1/12/2021- 30/11/2023
10	Program leader / Person in Charge	Memorandum of Agreement between UiTM and Universitas Indonesia (UI) UiTM & Universitas Indonesia	1/8/2021- 31/7/2023
11	Program leader / Person in Charge	Memorandum of Agreement between UiTM and AANS Technical & Services Sdn Bhd	1/1/2021- 31/12/2022
12	Program leader / Person	Ahli Jawatankuasa Pengurusan Memorandum Persefahaman	1/1/2020 – 31/12/2021

	in Charge	(MoU) bersama Universiti Teknologi MARA (UiTM) dan Indah Water Konsortium Sdn Bhd (IWK)	
13	Committee Member	Sesi libaturus Pencapaian & Strategi Pemeraksanaan EK	2/9/2021 - 22/9/2021
14	Committee Member	Jawatankuasa Entiti Kecemerlangan (JEK)	21/1/2020 – 31/12/2022
15	Program leader / Person in Charge	Ahli Jawatankuasa Pengurusan Memorandum Persefahaman (MoU) bersama Universiti Teknologi MARA (UiTM) dan Coventry University, UK	9/3/2020 – 8/3/2022
16	Committee Member	Jawatankuasa Kecil Entiti Kecemerlangan (JKEK)	15/6/2020 – 14/6/2022
17	Committee Member	Jawatankuasa Pengurusan MoU diantara UiTM dengan Jabatan Perlindungan Hidupan Liar dan Taman Negara	13/11/2019 – 12/11/2021
18	Head	Jawatankuasa Seminar Inovasi, Harta Intelek dan Pengkomersilan Pertandingan dan pameran Antarabangsa Invention, Innovation & Design Exposition (IIDEX2020)	4/2/2020 – 25/9/2020
19	Head	Jawatankuasa sistem pengurusan persidangan, penebitan dan program teknikal bagi CSSR2020	1/1/2020-21/12/2020
20	Committee Member	Jawatankuasa Kecil Pembangunan Penyelidikan (JKPaP)	1/1/2020-31/12/2021
21	Committee Member	Evaluation panel for Ugrading Entiti Kecemerlangan UiTM	1/1/2020 - 31/12/2020
22	Committee Member	Jawatankuasa Penerbitan Jurnal dan Buku Penyelidikan UiTM (JPJBPU)	15/1/2018 – 14/1/2020
23	Committee Member	Jawatankuasa Entiti Kecemerlangan (JEK) UiTM	1/1/2018 -31/12/2020
24	Chairman	Jawatankuasa kecil Entiti Kecemerlangan (JKEK).	1/1/2018 -31/12/2020
25	Committee Member	Jawatankuasa kecil Hasil Penyelidikan (JKHP)	1/1/2018 -31/12/2020
26	Committee Member	Jawatankuasa komuniti Penyelidikan (JKP)	1/4/2018-31/12/2019
27	Advisor	Program International Attachment UiTM: Japan Internship Program	01/07/2019- 25/09/2019
28	Committee Member	Jawatankuasa Majlis Perasmian Innovation Lab dan German Day DAAD UiTM,	1/11/2019 – 28/2/2020
29	Advisor	Program International Attachment UiTM: Japan Internship Program	19/08/2018- 23/09/2018
30	Head of Program	Program Emerging Research Leaders Series ERLS Bengkel Penulisan Jurnal	2018-2019
31	Fasilitator & Committee Member	Mesyuarat Timbalan Naib Canselor (Penyelidikan & Inovasi) (METPI) 2016, 2017, 2018, 2019, 2020, 2021	2016 - 2021
32	Committee Member	Jawatankuasa kecil Pembangunan Penyelidikan (JKPaP)	1/1/2016 -31/12/2019
33	Committee Member	Mesyuarat Pengurusan IRMI	1/1/2016 -31/12/2019
34	Committee Member	Jawatankuasa Pengurusan Pejabat Komuniti Penyelidikan	1/1/2016 -31/12/2019
35	Committee Member	Jawatankuasa Mesyuarat Eksekutif IRMI.	1/1/2016 -31/12/2019
36	Committee Member	Jawatankuasa Induk Projek Membaik pulih stesen penyelidikan UiTM-Perhilitan di Kuala Keniam Taman negara.	16/2/2017 – 15/1/2019
37	Scientific Committee Member	5th International Conference on Science and Social Research 2018 (CSSR 2018),	5-6/12/2018
38	Chairman	Seminar on Frontier Materials & Industrial Applications 2018	4/9/2018
39	Head	Product Pitching Program. Invention, Innovation & Design Exposition 2018 (IIDEX2018)	24-28/9/2018
40	Committee Member	Jawatankuasa Research Summit Day (RSD 2018)	1/11/2018
41	Committee Member	Jawatankuasa, Majlis syarahan professor oleh Prof Ir Dr Hj Abdul Rahman Omar	18/7/2018
42	Vice Chairman	Permohonan Geran Penyelidikan FRGS 2018	1/1/2018- 13/4/2018
43	Head of program	Bengkel penulisan dan penerbitan artikel berimpak tinggi	16-17/2/2018
44	Head of Cluster	Technology & Engineering Cluster Geran KPT	1/1- 13/4/2018
45	Chairman	PRGS presentation session UiTM	18/2/2018
46	Committee Member	Jawatankuasa Mesyuarat Eksekutif IRMI	1/1/2016 -31/12/2018
47	Committee Member	Jawatankuasa Induk Projek Membaik pulih stesen penyelidikan UiTM-Perhilitan di Kuala Keniam Taman negara.	16/2/2017 – 15/1/2018
48	Advisor	Program International Attachment UiTM	21/8/2017- 20/9/2017
49	Chairman	Jawatankuasa kecil Entiti Kecemerlangan (JKEK)	1/1/2016 -31/12/2017
50	Committee Member	Jawatankuasa kecil Hasil Penyelidikan (JKHP)	1/1/2016 -31/12/2017
51	Committee Member	Jawatankuasa kecil Pembangunan Penyelidikan (JKPaP)	1/1/2016 -31/12/2017
52	Committee Member	Jawatankuasa Entiti Kecemerlangan (JEK)	1/12/2016 -31/12/2017
53	Committee Member	Jawatankuasa komuniti Penyelidikan (JKP)	1/12/2016 -31/12/2017
54	Committee Member	Mesyuarat Pengurusan IRMI.	1/1/2016 -31/12/2017
55	Committee Member	Jawatankuasa Pengurusan Pejabat Komuniti Penyelidikan	1/1/2016 -31/12/2017
56	Committee Member	Jawatankuasa Penyediaan dasar dan garis panduan Entiti	1/1/2017 – 31/12/2017

		Kecemerlangan UiTM	
57	Committee Member	Jawatankuasa Scientific, 4th International Conference on Science and Social Research 2017 (CSSR 2017)	6 – 7/12/2017
58	Program Chair & Head of Publication Committee	Hari Entiti Kecemerlangan (EK) UiTM	13/11/2017
59	Editor	Buku Dasar EK UiTM.	2017
60	Editor	Buku Garis Panduan EK UiTM	2017
61	Editor	Buku FMIA Research Highlights.	2017
62	Editor	Buku EK Performance	2017
63	Program Chair	Seminar on Frontier Materials & Industrial Applications 2017	8/11/2017
64	Head	Product Pitching Program. Invention, Innovation & Design Exposition 2017 (IIDEX2017)	25-29/9/2017
65	Program Chair	Bengkel Penilaian Manuskrip Pertanika Vol. 1 & Vol. 2	21/6/2017
66	Program Chair	Bengkel Penilaian Manuskrip Pertanika Vol. 3,	16/6/2017
67	Program Chair	Bengkel Pemurnian Kertas kerja Malaysian Toray Science foundation (MTSF)-Science and technology Research Grant (STRG)	8/5/2017
68	Program Chair	Bengkel penulisan dan penerbitan artikel berimpak tinggi	16-17/2/2017
69	Head	Ketua Jawatan Kuasa Pameran HICOE/COE. Research Summit Day (RSD 2017)	18/1/2017
70	Chairman	PRGS presentation session UiTM	07/02/2017- 07/02/2017
71	Leader	Kumpulan inisiatif Penyelidikan (RIG) Entiti Kecemerlangan Tier 5 UiTM	10/5/2016 – 9/5/2018
72	Vice Chairman	3rd International Conference on Science & Social Research (CSSR2016)	1/4/2016 – 31/12/2016
73	Head	Product Pitching, Program Invention, Innovation, Design & Expo (iidex2016)	1/2/2016 – 30/9/2016
74	Committee Member	Pasukan Projek Transformasi UiTM Projek Stellar Researcher	12/2/2016 – 31/12/2018
75	Committee Member	Jawatankuasa Penyediaan dasar dan garis panduan Entiti Kecemerlangan UiTM	1/1/2016 – 31/12/2016
76	Committee Member	Jawatankuasa penerbitan, 3rd International Conference on Science & Social Research (CSSR2016)	1/4/2016 – 31/12/2016
77	Language Editor	Scientific Research Journal (SRJ)	1/1/2016 - 31/12/2018
78	Committee Member	Jawatankuasa Penilaian bagi Perolehan Latihan secara pakej untuk 3rd International Conference on Science & Social Research (CSSR2016)	16/7/2016
79	Committee Member	Mesyuarat Rakan Strategik Penarafan 2017	13/5/2016
80	Committee Member	Mesyuarat Penyerahan Petunjuk Prestasi (PI) Universiti.	17/6/2016
81	Chairman	Bachelor of Mechanical Engineering (Hons.) Program EM220, FKM UiTM	1/3/2012 – 28/2/2016
82	Chairman	Jawatankuasa Teknikal ICT (JTICT) Zon W8, UiTM	1/7/2011- 30/4/2016
83	Committee Member	Jawatankuasa Outcome Based Education (OBE) UiTM	1/1/2015 – 31/12/2016
84	Head of Program	Kursus Asas Pembangunan Laman Web UiTM	23/4/2015- 23/4/2015
85	Facilitator	Bengkel Penulisan UiTM	27/5/2015- 27/5/2015
86	Chairman	Pembentangan Cadangan Penyelidikan Pasca Siswazah UiTM	8/4/2015
87	Vanguard Researcher	Vanguard Researcher UiTM	1/12/2013- 30/11/2016

H.3 Faculty Level Committee (2013-2021, Selected)

No.	Position	Committee Name	Appointment Duration
1	Head of program/ Person in charge	Person in charge MoA/MoU/Lol FKM	2021 - 2022
2	Head of program/ Person in charge	Person in charge MoA/MoU/Lol FKM	2015 - 2020
3	Committee Member	Jawatankuasa Sistem Audit FKM.	1/3/2016 – 28/2/2017
4	Panel of Evaluator	Permohonan FRGS.	1/3/2016 – 28/2/2017
5	Vice Chairman	4th International Conference on Advances in Mechanical Engineering 2015 (ICAME2015).	2/5/2014 – 31/8/2015
6	Chairman / Pengerusi	FKM Materials Lecture Competition 2015	1/1/2015 – 31/5/2015
7	Chairman / Pengerusi	Jawatankuasa adhoc Pembangunan “FKM Design House”.	1/10/2015 – 31/12/2016
8	Chairman / Pengerusi	Jawatankuasa adhoc Pembangunan makmal baru dan fizikal CoS EMM	1/1/2015 – 31/12/2016

9	Chairman / Pengerusi	Jawatankuasa adhoc Akreditasi Makmal ISO17025 CoS EMM.	1/1/2015 – 31/12/2016
10	Chairman / Pengerusi	Jawatankuasa adhoc pembelian peralatan melebihi RM500,000 CoS EMM	1/1/2015 – 31/12/2016
11	Chairman / Pengerusi	Bengkel Pembangunan Laman Web Asas	23/4/2015
12	Chairman / Pengerusi	Jawatankuasa kecil Pendaftaran dan Jemputan, Jawatankuasa Bulan Inovasi UiTM 2015	1/1/2015 – 31/12/15
13	Committee Member	Jawatankuasa Kecil Akademik Pengajian Siswazah (JKAPS) FKM	1/1/2015 – 31/12/2015
14	Committee Member	Jawatankuasa Kecil Kurikulum (JKKF) FKM	1/1/2015 – 31/12/2015
15	Committee Member	Jawatankuasa Akademik (JAF) FKM	1/1/2015 – 31/12/2015
16	Committee Member	Jawatankuasa Eksekutif (JKE) FKM FKM	1/1/2015 – 31/12/2015
17	Committee Member	Jawatankuasa Pemilikan Risiko FKM	1/1/2015 – 31/12/2015
18	Committee Member	Jawatankuasa Pembuka Sebut Harga FKM	1/1/2015 – 31/12/2015
19	Facilitator	Bengkel Peralatan Saintifik FKM	17/2/2015
20	Ahli, Pasukan Kerja Course File	Jawatankuasa Sistem Pengurusan Kualiti FKM.	1/1/2015 – 31/12/2015
21	Committee Member	Jawatankuasa Kewangan FKM	1/1/2015 – 31/12/2015
22	Committee Member	Jawatankuasa pembangunan fizikal FKM.	1/1/2015 – 31/12/2015
23	Committee Member	Jawatankuasa Invention, Innovation and Design (IID) FKM	1/1/2015 – 31/12/2015
24	Coordinator (Group no. 7)	Jawatankuasa Penilaian Kendiri Kualiti FKM.	1/1/2015 – 31/12/2015
25	Committee Member	Jawatankuasa Pemantauan Professionalisma Pensyarah (PROPENS) FKM	1/1/2015 – 31/12/2015
26	Committee Member	Jawatankuasa Akreditasi FKM	1/1/2015 – 31/12/2015
27	Committee Member	Jawatankuasa Penajaan Kewangan FKM.	1/1/2015 – 31/12/2015
28	Committee Member	Jawatankuasa Lawatan Penanda Aras dari Uniten	22/10/2015
29	Committee Member	Jawatankuasa D'Buster FKM.	1/1/2015 – 31/12/2015
30	Advisor	Jawatankuasa Akreditasi Makmal SAMM/ISO/IEC17025 FKM	1/1/2015 – 31/12/2015
31	Committee Member	Lawatan Deligasi Fraunhofer University Germany	31/7/2015 – 18/8/2015
32	Committee Member	Jawatankuasa CDIO FKM.	1/1/2015 – 31/12/2015
33	Committee Member	Jawatankuasa Teaching Factory FKM.	1/1/2015 – 31/12/2015
34	Committee Member	Jawatankuasa ICT/e-Learning FKM.	1/1/2015 – 31/12/2015
35	Committee Member	Jawatankuasa Centre for advanced Materials Research (CAMAR) IMETA FKM	1/1/2012 – present
36	Committee Member	Centre of Computer Aided Design, Engineering and Manufacturing (CADEM), IMETA FKM	1/1/2013 – present
37	Facilitator	Writing of technical report FKM	27/5/2015
38	Laboratory Manager	(1) Basic Mechanics Lab, (2) Biomechanics Lab, (3) Advanced Materials Lab and (4) CDIO2 Lab	2014-2015
39	Program coordinator	Academic benchmarking by the Taylor's University	20/11/2014
40	Mentor	Mentor, Supervisor and Examiner of UiTM Lecturer	28/3 – 2/7/2014
41	Program coordinator	Academic benchmarking by the UCSI University	1/10/2013
42	Program coordinator	Academic benchmarking visit to National University of Singapore, Nanyang Technological University and Universiti Teknologi Malaysia.	2-4/7/2013
43	Program coordinator	Academic benchmarking visit to Universiti Kebangsaan Malaysia	23/4/2013
44	Chairman	Organizing committee for "Seminar on Thermal analysis and UV curing technology	15/4/2014
45	Chairman	Organizing committee for "Materials Lecture Competition 2014" Program UiTM level	1/1 – 31/5/2014
46	Chairman	Organizing committee for "Workshop on Mechanics, Materials and Dynamics"	14 – 16/4/2014
47	Chairman	Organizing committee for UiTM Materials Lecture Competition Committee (UiTM-MLC2013)	21 – 27/3/2013
48	Chairman	Materials Lecture Competition Committee (FKM-MLC2013) Faculty level	1– 20/3/2013

H.4 Professional / Society / Community Membership (International / National)

No.	Position	Committee Name	Appointment Duration
1	Member	Board of Engineers Malaysia (BEM). Membership no: 47135A. Peringkat: Negara.	2005 – present

2	Graduate Member	The Institution of Engineers Malaysia (IEM) Graduate Member (no: 77644). Peringkat: Negara.	2015 – present
3	Professional Technologist	Malaysia Board of Technologist (MBOT). Professional Technologist (Ts.) (PT20120355)	2020 – present
4	Graduate Technologist	Malaysia Board of Technologist (MBOT). Graduate Technologist (GT20050125)	2020 – present
5	Member	International Association of Engineers (IAENG). Membership no: 130852. Peringkat: Antarabangsa.	2013 – present
6	Senior member	International Association of Computer Science and Information Technology (IACSIT). Senior membership no: 80345747. Peringkat: Antarabangsa.	2012 – present
7	Executive member	Malaysian Tribology Society (MyTRIBOS). Membership no: L0512. Peringkat: Negara.	2013 – present
8	Member	Malaysian Powder Metallurgy & Particulate Materials Association. Membership no: 0055. Peringkat: Negara.	2013 – present
9	Executive Committee member	Persatuan Industri Komposit (Composites Industry Association). Membership no: pik/2-14/02. Peringkat: Negara.	2013 – 2019
10	Member	Society of Engineering Education Malaysia (SEEM) (Membership no: PO251), Peringkat: Negara.	2014 – present
11	Member	International Association for Palm Byproducts (ByPalma)	2021 – present

H.5 Contribution to Student Development

No.	Position	Committee / Program Title / Level	Appointment Duration
1	Industrial Training Advisor	Industrial Attachment under CoE IIESM	7 Aug – 17 Oct 2021
2	Industrial Training Advisor	Industrial Attachment under CoE IIESM	1 Sept – 31 Oct 2020
3	Invited Speaker & Facilitator	Bachelor degree student program: FYP Webinar: Kick start for extensive review using online databases	17 Jun 2020
4	Invited Speaker & Facilitator	Postgraduate student program: IGS Writing Skills Seminar	14 July 2019
5	Invited Speaker & Facilitator	Postgraduate student program: Journal Writing workshop	27 July 2019
6	Advisor	Undergraduate Student Summer Research Program Japan 2019 : UBE College	1 Jul – 25 Sept 2019
7	Invited Speaker & Facilitator	Postgraduate student and Supervisor program: FMIA ERLS workshop on Journal Paper Writing and Submission at ILD UiTM	2018 - 2019
8	Invited Speaker & Facilitator	Postgraduate student program: Bengkel penulisan proposal projek penyelidikan, Fak Perladangan dan Agroteknologi	10 April 2019
9	Invited Speaker	FYP project lecture series, Sept. 2015 – Jan. 2019	28 Sept. 2018
10	Invited Speaker & Facilitator	Postgraduate student program: IGS Writing Skills Seminar	22 Okt. 2018
11	Advisor	Undergraduate Student Summer Research Program Japan 2018 : UBE College	19 Aug – 23 Sept 2018
12	Invited Speaker & Facilitator	Postgraduate student program: IGS Writing Skills Seminar	8 Aug 2018
13	Invited Speaker & Facilitator	Postgraduate student & Supervisor program: Penerbitan di Fakulti Perladangan dan Agroteknologi	5 April 2018
14	Invited Speaker & Facilitator	Postgraduate student program: IGS Writing Skills Seminar	18 Apr 2018
15	Advisor	Undergraduate Student Summer Research Program: International Student Attachment 2017	21 Aug – 20 Sept 2017
16	Invited Speaker & Facilitator	Postgraduate student program: FKM Research Booth Camp	4 Nov 2016
17	Invited Speaker & Facilitator	Postgraduate student program: IGS Writing Skills Seminar	17 Oct 2016

18	Invited Speaker & Facilitator	Postgraduate student program: FKM Research Boot Camp 2016	7-8 April 2016
19	Penasihat dan AJK Penerbitan	Mechanical Engineering & Science Postgraduate International Conference (MESPIC2016). Peringkat: Universiti	28-29 Sept 2016
20	Judge	Bachelor degree student program: Pertandingan Mechanical Design Day 2016.	11 Jun 2016
21	Panel	Bachelor degree student program: Product Evaluation & Presentation for Single Seater Car project	14 Jun 2016
22	Facilitator	Bachelor degree student program: Writing of technical report FKM	27 May 2015
23	Invited Speaker & Facilitator	Bachelor degree student program: Forum on Final Year Project 2014	12 March 2014
24	Advisor	Student Academic Advisor, Bachelor degree student program	2011 - present
25	Supervisor	Bachelor degree student program: Projek tahun akhir pelajar 1 & 2 (FYP 1 & FYP 2)	2003 - present
26	Visiting Lecturer	Bachelor degree student program: Latihan industri pelajar	2011 - present
27	Facilitator	Soft skill Module 8, Session March-July 2013, Level: Faculty	18 May 2013
28	Facilitator	Soft Skills Module 7, Level: Faculty	30 Oct 2011
29	Student Advisor	Materials Lecture Competition 2014, Level: National	12 Feb – 31 May 2014
30	Chairman	Materials Lecture Competition Committee (FKM-MLC2013), Level: Faculty	1 – 20 March 2013
31	Student Advisor	Oman Summer Internship Program	19 Aug – 9 Sept 2013
32	Advisor	FKM Student Fanclub	1 Jan – 31 Dec 2013

H.6 Contribution to Community

No.	Position	Committee Name & Level	Appointment Duration
1	Speaker / Motivator	Program Webinar Halatuju Pendidikan lepasan SPM. Level: National	18/6/2021
2	Executive member	Persatuan Industri komposit Kuala Lumpur dan Selangor. Level: National	1/1/2015-31/12/2020
3	Member	Kesatuan Kakitangan Akademik UiTM (MITASA). Level: University	2002 - present
4	Member	Persatuan Kebajikan Staf FKM. Level: University	2002 - present
5	Alumni member	Alumni, University of Sheffield United Kingdom Membership no: 181382. Level: International	2011 – present
6	Alumni member	Alumni, Universiti Kebangsaan Malaysia. Membership no: 181382. Level: National	2002 - present
7	Qariah member	Surau Taman Desa Alam Seksyen U12. Level: National	2011 – present
8	Member	Persatuan Kebajikan Staf IRMI. Level: University	2016 - 2019
9	Member	Persatuan Kebajikan Staf TNCPI. Level: University	2020 - present

I. INTELLECTUAL PROPERTY RIGHT (IPR)

No.	Title	IPR Type	IPR No.	Year
1	Method Of Surface Damage Repair Using Basalt Fibre Reinforced Epoxy Nanogranite (B-FREN) Hybrid Composite Patch	Patent	Pending	2022
2	Production Of Green Nanogranite Cement (GNC) Paste And Hybrid Fibre Composites Patch For Damage Surface Repair And Maintenance	Patent	Pending	2022
3	Fabrication procedure of aluminium foam-basalt fiber reinforced polymer sandwich composites.	Copyright	LY2018002220	2018
4	Product design and description of onion chips dough sheeter cutting machine.	Copyright	LY2018002224	2018
5	Acid and silane functionalisation process of MWCNTs.	Copyright	LY2018002219	2018
6	Fabrication procedure of aluminium foam-basalt fiber reinforced polymer sandwich composites vol. 2	Copyright	LY2018000661	2018
7	Product design and description of onion chips dough sheeter cutting machine vol. 2	Copyright	LY2018000663	2018

8	Acid and silane functionalisation process of MWCNTs vol. 2	Copyright	LY2018000660	2018
9	Design of basalt fibre reinforced polymer composite patch for pipeline rehabilitation	Copyright	LY2017000951	2017
10	Installation procedure of basalt FRP patch with nanomodified resin infusion for pipeline rehabilitation.	Copyright	LY2017000936	2017
11	Green basalt-aluminium foam sandwich composites	Copyright	LY2017003232	2017
12	Integrated dough sheeter, cutter and fryer machine for onion chips production	Copyright	LY2017003241	2017
13	Carbon nanotubes coat kenaf Eco-friendly composites	Copyright	LY2017003246	2017
14	Copper/Carbon nanotubes as electrical brushes in electric	Copyright	LY2016000599	2016

J. ACCOLADES / AWARDS / RECOGNITION AND APPRECIATION

J.1 Personal Awards / Achievement

1. Top UiTM's author 2021 publication (WoS/Scopus) corresponding/UiTM First author, Universiti Teknologi MARA, 20 May 2022.
2. Certificate of Excellence Performance Year 2021 (Penerima markah prestasi tinggi tahun 2021), Universiti Teknologi MARA, Feb 2022.
3. Excellence Service Award 2020 (Anugerah Perkhidmatan Cemerlang 2020). Universiti Teknologi MARA, 6 July 2021.
4. Excellence Consultancy Award (Anugerah Perundingan Cemerlang), FKM, UiTM, 26 March 2021
5. Excellence Research Award (Anugerah Penyelidik Cemerlang), FKM, UiTM, 26 March 2021
6. International Collaborative Publication Award (Anugerah Penerbitan Kolaborasi Antarabangsa), FKM, UiTM, 26 March 2021
7. High Impact Publication Award (Anugerah Penerbitan Berimpak Tinggi), FKM, UiTM, 26 March 2021
8. Industrial Research Grant Recipient Award (Anugerah Penerimaan Geran Penyelidikan Industri), FKM, UiTM, 26 March 2021
9. Productive Publication Award 2020 (Anugerah Penerbitan Produktif 2020), FKM, UiTM 2020, 11 March 2020
10. Incentive for High Impact Article Publication (Insentif Penerbitan Artikel Berimpak (IPAB)), RM1,200, UiTM, 15 Nov. 2020
11. Diamond Award, Certificate of special Award. Invention, Innovation & Design Exposition 2018, iidex2018. Product Name: HYBRO-An innovative CFRP/GFRP Hybrid composite for tensile & Flexural applications in aerospace/automotive industries, 24-28 September 2018.
12. Best Publication Award Year 2017 (Anugerah Penerbitan terbaik 2017). Hari Anugerah Kualiti Dekan & Hari apresiasi staf FKM UiTM. 21 Mac 2018.
13. Postgraduate Student Supervision Award -Number of Graduated Student Year 2017 (Anugerah Penyeliaan pelajar pascasiswazah (Bilangan pelajar bergraduasi) tahun 2017). Hari Anugerah Kualiti Dekan & Hari apresiasi staf FKM UiTM. 21 Mac 2018
14. Productive Research Award Year 2017 (Anugerah Penyelidikan produktif (geran) tahun 2017). Hari Anugerah Kualiti Dekan & Hari apresiasi staf FKM UiTM. 21 Mac 2018
15. Gold Medal Award. Invention, Innovation & Design Exposition 2017, iidex2017. Product Name: Integrated dough sheeter, cutter and fryer machine for onion chips production, 25-29 September 2017.
16. Gold Medal Award. Invention, Innovation & Design Exposition 2017, iidex2017. Product Name: Green basalt-aluminium foam sandwich composites, 25-29 September 2017.
17. Gold Medal Award. Invention, Innovation & Design Exposition 2017, iidex2017. Product Name: Carbon nanotubes coat kenaf Eco-friendly composites, 25-29 September 2017.
18. Gold Medal Award. Invention, Innovation & Design Exposition 2017, iidex2017. Product Name: Basalt fibre patch with nanoresin infusion for pipeline rehabilitation, 25-29 September 2017
19. Silver Medal Award. SIRIM Invention, Innovation & Technology Expo (SI2TE) 2017. Product Name: Eco-Efficient Brake Friction Materials for Automotive Applications, 18-19 April 2017
20. Gold Medal Award. Invention, Innovation & Design Exposition 2016, iidex2016. Product Name: FJ Sense, 20-23 September 2016.
21. Silver Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: Alternative Material for Sea Water Structures), 15-16 November 2015.
22. Silver Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: FRP Sandwich Panel with Aluminium Foam Core), 15-16 November 2015.
23. Silver Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: Copper/Carbon Nanotubes as Electrical Brushes in Electric Motor Application), 15-16 November 2015.
24. Best Paper Award. 4th International Conference on Advances in Mechanical Engineering 2015. 26-27 August 2015.
25. Bronze Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: Fibre Nano-Hybrid), 15-16 November 2015.
26. Bronze Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: High Shear Milling), 15-16 November 2015.

27. Bronze Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: Green Wall), 15-16 November 2015.
28. Bronze Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: Filament Winding Machine), 15-16 November 2015.
29. Bronze Medal Award. Research Innovation Symposium & Exposition 2015, RISE 2015 (Title: Multi-Parison Mould Design), 15-16 November 2015.
30. Best Paper Award. International Conference on Plastic, Rubber and Composites 2014. 20-21 June 2014
31. Silver Medal Award. Malaysia Technology Expo 2014, MTE2014 (Title: Innovative Processing of Cellular Aluminium Foam by Conventional Casting Incorporated with Rock Salt Space Holder Material), 20 – 22 February 2014.
32. Silver Medal Award. Invention, Innovation and Design Exposition 2014, IIDEX 2014 (Title: High Strength Cellular Aluminium Foam), 27 – 30 April 2014.
33. Composite Awards. Awards for published works, The Institute of Materials, Minerals and Mining. 9 July 2013.
34. Excellence Service Award (Anugerah Perkhidmatan Cemerlang). Universiti Teknologi MARA, 2013.
35. Silver Medal Award. Invention, Innovation and Design 2013, IIDEX2013 (Title: Nanosilica Filled Fibre Composites), 15 March 2013.
36. Silver Medal Award. Invention, Innovation and Design 2013, IIDEX2013 (Title: Dry Fibre Winding Machine), 15 March 2013.
37. Bronze Medal Award. Invention, Innovation and Design 2013, IIDEX2013 (Title: Highly Porous Copper by NACL Space Holder-Metal Injection Moulding). 15 March 2013.
38. Silver Medal Award. Invention, Innovation and Design Exhibition 2012, IIDE2012 (Title: Near-Net-shape Processing of Porous NiTi Alloy for Biomedical Implant Applications), 13 September 2012.
39. Productive Research Grant Award. First-runner up, Majlis Anugerah kualiti Dekan 2012, FKM UiTM, 2012.
40. High Impact Journal Incentive Award 2010. RM 1,000 Universiti Teknologi MARA, 3 November 2011
41. Travel Award. Sheffield Metallurgical and Engineering Association LTD (SMEA), 300GBP (Great Britain Pound), 29 April 2009
42. Best poster presentation at 10th deformation and Fracture of Composites (DFC10). 2nd place (70GBP), Sheffield United Kingdom, 15-17 April 2009
43. Doctor of Philosophy (Mechanical Engineering). The University of Sheffield, 30 March 2011
44. IPTA Academic Training Scheme (SLAI) and UiTM Staff Scholarship Award for PhD Studies. Ministry of Higher Education and Universiti Teknologi MARA, 1 September 2007 – 31 March 2011
45. Gold Medal Award. Invention, Innovation and Design, IID 2008 (Title: Novel Metal Matrix Composite (MMC) by Waste Materials Reinforcement), 25 - 27 March 2008
46. Gold Medal Award. 18th Malaysia Invention, Innovation and Technology Exhibition, ITEX2007 (Title: Potential Application of Water Soluble Binder System in Metal Injection Moulding Process), 18 - 20 May 2007
47. Bronze Medal Award. 18th Malaysia Invention, Innovation and Technology Exhibition, ITEX2007 (Title: Recycling Potential for Manufacture of high Quality Artificial Lightweight Aggregate from Municipal Solid Waste Ash Incineration), 18 - 20 May 2007
48. Bronze Medal Award. Inventions, Innovations and Designs 2007, IID'07 (Title: Artificial Lightweight Aggregate (ALWA) from Paper Sludge Ash), 24 – 25 January 2007
49. Bronze Medal Award. Inventions, Innovations and Designs 2007, IID'07 (Title: Potential of Recycling Municipal Solid Waste Ash (MSAW) from incinerator to form Lightweight Aggregate), 24 – 25 January 2007
50. Bronze Medal Award. Inventions, Innovations and Designs 2007, IID'07 (Title: Water Soluble Binder System in Metal Injection Moulding (MIM) Application), 24 – 25 January 2007
51. Excellence Service Award. Universiti Teknologi MARA, 2006.
52. Leader. KTP Industry Grant, Ministry of Higher Education Malaysia, RM 144,935 (Industrial Project Title: Transferring Expertise to Bakal Sejati Sdn Bhd in establishing greener injection moulding system to increase productivity and produce high quality plastic bottles) 2014 – 2016

J.2 Group Awards / Achievement

1. Five Star EK Award Year 2020: Fracture Mechanics and Materials Integrity (FMMI) Research Group (Anugerah EK 5 bintang Kumpulan Penyelidikan RG FMMI), UiTM, 29 Oct. 2021
2. Five Star EK Award Year 2019: Fracture Mechanics and Materials Integrity (FMMI) Research Initiative Group (Anugerah EK 5 bintang Kumpulan Inisiatif Penyelidikan RIG FMMI), UiTM, 1 Nov. 2020
3. Five Star EK Award Year 2018: Fracture Mechanics and Materials Integrity (FMMI) Research Initiative Group (Anugerah EK 5 bintang Kumpulan Inisiatif Penyelidikan RIG FMMI), UiTM, 1 Nov. 2019
4. Five Star EK Award Year 2017: Fracture Mechanics and Materials Integrity (FMMI) Research Initiative Group (Anugerah EK 5 bintang Kumpulan Inisiatif Penyelidikan RIG FMMI), UiTM, 1 Nov. 2018
5. Full 5-Year Accreditation 2013 - 2017, of Bachelor of Engineering (Honours) Mechanical EM220 Program. (Programme Chair)
6. Full 5-Year Accreditation 2013 - 2017, of Bachelor of Engineering (Honours) Mechanical (Full time equivalent) Program. (Programme Chair)
7. Vice Chancellor's Quality Award. Best Faculty Winner, Universiti Teknologi MARA, 2014 (Committee member)
8. Vice Chancellor's Quality Award. Strategic Planning Award, Universiti Teknologi MARA, 2014 (Committee member)
9. Vice Chancellor's Quality Award. Result Achievement Award, Universiti Teknologi MARA, 2014 (Committee member)

10. Full 5-Year Accreditation 2014 - 2018, of Bachelor of Mechanical Engineering (Honours) (Manufacturing) EM221/241 Program. (Committee member)
 11. Vice Chancellor's Quality Award. Best Faculty, Universiti Teknologi MARA, 2012 (Committee member)
 12. Vice Chancellor's Quality Award. Best Faculty, Universiti Teknologi MARA, 2011 (Committee member)
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REFERENCES

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