



PROF. (Ts.)(Ir.)(Dr.)(Hj.) SOLEHUDDIN BIN SHUIB

Professor

Ts. (MBOT), Corp. Member (MIEM), P.Eng(Ir.), ACPE
 School of Mechanical Engineering, College of Engineering
 Universiti Teknologi MARA
 40450 Shah Alam, Selangor, MALAYSIA

Email: solehuddin2445@uitm.edu.my; mesoleh@gmail.com
 Tel: +6 03-55435163 (Off.); +6 019 551 1600 (HP)
 Fax: +6 03-55435160

FIELD OF SPECIALIZATION

Mechanical Design(Biomechanics, Stress Analysis, Finite Element Analysis)

Research Interest:

- Development of Implant for human body (Hip, Spine, Dental and Knee)
- Medical Devices, Footwear insole
- Bioinspired Wing
- Compliant Mechanisms and Topology Optimization

EDUCATION BACKGROUND

PhD (Mechanical Engineering) Universiti Putra Malaysia (UPM), MALAYSIA	2012
<i>Thesis Title: "Finite Element Analysis of Hip Implant in Bone Resorption Environment"</i>	
M.Sc. in Mechanical Engineering University of Toledo, OHIO, UNITED STATES OF AMERICA	1998
B.Sc. in Mechanical Engineering University of Alabama, Birmingham, UNITED STATES OF AMERICA	1996

ADMINISTRATIVE APPOINTMENT

Head of Center of Post Graduate Studies, FKM	1 Aug., 2020 – 31 Mar., 2021
Coordinator of MyRA, Research, Publication and Consultancy, FKM, UiTM	1 Aug., 2015- 31 July, 2016
Coordinator of Research, Publication and Consultancy, FKM, UiTM	1 Dec, 2014- 31 July, 2015
PRISMA Liaison Officer(LO), FKM UiTM	1 Jan, 2015- 31 Dec, 2016

PROFESIONAL AFFILIATION

ASEAN Chartered Professional Engineer(ACPE)	2021- PRESENT
Board of Engineers Malaysia(BEM)- P.Eng (P121123)	2020 -PRESENT
International Society of Biomechanics(ISB)-4881	2020-PRESENT
The Institution of Engineers Malaysia(MIEM)- Corporate member(M50121)	2011- PRESENT
Teknologis Profesional, Ts.(PT19030041)	2020 -PRESENT
Trainer Niosh: TTT180883-21	2021 -PRESENT

LANGUAGE

Malay, English

WORKING EXPERIENCE

Tutor, School of Mechanical Engineering, Universiti Sains Malaysia, at Tronoh, Perak.	1998 -2000
Lecturer, School of Mechanical Engineering, Universiti Sains Malaysia, Nibong Tebal, Penang	2000 – 2005
Senior Lecturer, School of Mechanical Engineering, Universiti Sains Malaysia	2005-2012
Assoc. Professor, School of Mechanical Engineering, Universiti Sains Malaysia	2012- 2014
Assoc. Professor, Faculty of Mechanical Engineering, UiTM Shah Alam, Selangor	2014 – present

Leadership and Administrative Experience

Program Chairman for Distance Study Learning of Mechanical Engineering, Universiti Sains Malaysia		2003-2006
Executive Board of School of Mechanical Engineering, Universiti Sains Malaysia		2003-2006
Academia and Research:		
Assoc. Professor/ Researcher		2012- Present
Panel Assessor (MSc; Proposals, and Progress Report)		2012- Present
Panel Assessor (PhD; Proposals, and Progress Report)		2012- Present
MSc Research Supervision		2004-Present
PhD Research Supervision		2013-Present
Chairperson for MSc, Ph.D Viva voce		2013- Present
Panel Grant Assessor (ESF, Innofund, Technofund, FRGS, RAG, BESTARI		2013- Present
EAC and ETAC PANEL		2021- Present
TTAC panel for MBOT		2019- Present

A1 TEACHING AND LEARNING

A1.1 List of Courses taught (1998 – PRESENT)

NO	COURSE NAME	LEVEL	YEAR
1	Engineering Drawing	Bachelor	99,01,03, 04, 05,06, 11, 12, 13
2	Engineering Design I (CAD)	Bachelor	00,01, 03, 04,05, 11, 12
3	Engineering Design II(Machine Component Design)	Bachelor	00, 03, 11, 12
4	Engineering Design III(Machine Design)	Bachelor	06, 12
5	Engineering Design IV(System Design)	Bachelor	12,13
6	Final Year Project I	Bachelor	99-06; 11-13;2014-PRESENT
7	Final Year Project II	Bachelor	99-06; 11-13; 201-PRESENT
8	Vibration in Machine Industries	Bachelor	99,00
9	Mechanical Vibration and Control	Bachelor	01, 03, 04
10	Kinematics and Dynamics of Machine	Bachelor	99
11	Engineering Mechanics (Dynamics)	Bachelor	00, 03, 04,
12	Dynamics & Mechanisms	Bachelor	01, 02, 04
13	Engineering Practice	Bachelor	05
14	Solid Mechanics	Bachelor	05, 06
15	Finite element method	Bachelor	05
16	Engineering lab	Bachelor	99,00,01,02,03,04,05,06, 11, 12, 13
17	Numerical method for engineers (MEC500)	Bachelor	14
18	Control Engineering (MEC522)	Bachelor	14, 21
19	Mechanical Engineering Design I(MEC531)	Bachelor	14, 15, 16, 2021
20	Mechanical Engineering Design II(MEC532)	Bachelor	15, 16, 17
21	Biomechanics of Human Performance (SPS752)	Master	14
22	Engineering Dynamics (MEC420)	Bachelor	2016-PRESENT
23	Engineering Statics (MEC412)	Bachelor	16,18
24	Management of Innovation (MEM705)	Master	15,17, 18, 19,2020

A2 SUPERVISION OF THESIS/ DISSERTATION/ PRACTICAL TRAINING

A.2.1 Postgraduate (PhD) – Main Supervisor (except when stated)

No.	Name of students	Thesis/Research title	Year
1.	Dr. Maya Genisa (Co- Supervisor, School of Health Sciences, USM)	Biomechanics Of Dental Implant: 3 Dimensional Bone Assessment Using CBCT From Laboratory To Clinics.	2017 (Completed)
2.	Dr. Zainal Abidin Arsat (Co-Supervisor, School of Mechanical Engineering, USM)	An Innovation Of High-Flexion Femoral Component For Total Knee Arthroplasty	2018 (Completed)
3.	Dr. Shafiq Bin Suhaimi EM950	Characterization Of Bio-Inspired Flapping Wing With Compliant Morphing Mechanisms Based On Bat Wings.	2020 (Completed)
4.	Dr. Nur Faiqa Binti Ismail EM950	Finite Element Modeling Of Uncemented Hip Stem Primary Fixation: The Effect Of Bone Visco-Elastic Properties To The Interference Fit	2020 (Completed)
5.	Mohamad Amar Shahmin Bin Zulkiflee EM950	Development Of Biomechanics Of Dental Implant	2018- Ongoing
6.	Mohd Afrol Hafiz Bin Sariman, EM950	Instrumented hip implant by additive manufacturing approach, co-SV	2020- Ongoing

A.2.2 Postgraduate (Master) – Main Supervisor (except when stated)

No.	Name of students	Thesis/Research title	Year
1.	Mohd. Nizam Bin Ahmad	Multi-Criteria Optimization Of Hip Prosthesis To Reduce Stress Shielding.	2004
2.	Mohd. Ikhwan Zaini Bin Ridzwan	Topology Optimization Of Hip Implant To Reduce Stress Shielding.	2005
3.	Muhammad Saiful Islam Bin Mohd Izra'ai (2013175123) EM750	Development Of Dental Implant In Bone Resorption Environment.	2017
4.	Muhammad Faris Bin Abd Manap -2014866284 EM750	Establishment Of Newly Designed Cemented Hip Prosthesis To Improve Implant Life	2017
5.	Nursuhana Binti Alauddin MEM798	Systematic Cost Analysis Using "ITAKONA" Approach For Printing Part	2017
6.	Nik Ahmad Hambali Bin Nik Abd. Rashid, 2017355031 EM750	Analysis Of Seatbelt Toward Car Crashworthiness: Analysis Of Car Occupant Seatbelt And Injury Level During Crash Event	2018 - ongoing
7.	Najwa Syakirah Binti Hamizan, 2020185903, EM750	Topology Optimization of Hip Implant using Additive Manufacturing	2020- Ongoing
8.	Iffa Binti Mohd Arrif, 2020915853, EM750	Design for Additive manufacturing for Ortopaedic applications	2020- ongoing
9.	Maizatul Afirah Bt. Ahmad – 2019308611, EM750 (Co - Supervisor)	Proximal Cemented Fixation in Total Hip Arthroplasty	2019- ongoing
10.	Nurul Akrami Binti Ab Rahim Yang EM750 (Co -Supervisor)	Efficacy Of Wheelchair Skills Training In Improving Skills And Knowledge Of Users And Caregivers: A Quasi Experimental Study	2019- ongoing
11.	Muhammad Bunyamin Alias, 2020680032, EM703	Study of Design for Additive Manufacturing (DfAM) For Coated Hip Implant	2021 - ongoing

A.2.3 Undergraduate (Bachelor, Final Year Project)–Main Supervisor (except when stated)

FYP: USM Students

No	Student	Topic	Year
1	Muhammad bin Mat Junoh@Yunus	Design of Shock absorber for RX-Z motorcycle	1999
2	Norazlin Bt Abd Wahab	Pemodelan Dan Penganalisaan, Alat Pembuka Buah Kelapa Bagi Surirumah Menggunakan Sofwer I-Deas	2000
3	Hairul Effendy Mohd Zin	Pemodelan dan penganalisaan alat pembuka buah kelapa berautomatik bagi industri kecil dan sederhana	2000
4	Nik Aman bin Manaf	Pemodelan dan penganalisaan alat pembuka buah kelapa berautomatik bagi industri kecil dan sederhana	2000
5	Kamarul Anuar b. Mohamad,	Pemodelan dan penganalisaan `Suspension Clamp'(SC)bagi Aerial Bundled Cable(ABC) menggunakan sofwer IDEAS	2000
6	Harizal bin Hamid	Pemodelan dan penganalisaan `Dead End Clamp 120 menggunakan sofwer IDEAS	2000
7	Nizam bin Ahmad	Design of one piece compliant Nail Clipper	2000
8	Sakawi bin Len	On the design of compliant gripper using topology optimization	2000
9	Khairil Anuar Mat Saad	The design of compliant wiper	2000
10	Burhanuddin b Abdul Rahman	Self compliancy characteristics and properties	2000
11	Muhammad Hilmi Muhd Yusuf	The Design of a Compliant Clutch-Plate	2001
12	Muhd Ikhwan Zaini Ridwan	The Design and Analysis of A Compliant Endosurgical Haptic Interface Grasper by Using Pseudo-Rigid Body Method	2001
13	Amran Sofiyan	A Compliant Wing by using Pseudo-Rigid Method	2001
14	Mohd Suhaini Abd Majid	The Design of a Compliant Wiper by using Pseudo-Rigid Method	2001
15	Arman bin Anuar	The Design and Analysis of Compliant MEMS using Pseudo-Rigid Method.	2001
16	Mohd Yusme Abd Rashid	The Design and Analysis of Compliant MEMS using Pseudo-Rigid Method	2001
17	Halim Selamat	Conditioned monitoring of Lumut Power plant by using Vibration Technique	2001
18	Elmy Marina Mohd Khamis	The Design and Analysis of A Compliant Endosurgical Haptic Interface Grasper by Using FEA	2001
19	Kauthar binti A Rhaffor	The Design and Analysis of Compliant knee by using FEA.	2002
20	Lee Soon Long	Effect of Noise and Vibration induce by LRT to the surrounding structures.	2002
21	Hulur Azmi b. Mohd Isa	A Development of a screening tool for detecting cervical cancer.	2003
22	Rosdi Yusoff	A disposable compliant forceps for HIV patients.	2003

23	Wan Mohd Aznan Ahamad	A design of a compliant Stapler using compliant mechanism method.	2003
24	Mastura Samsuddin	A development of a surgical equipment: Uterine Manipulator	2003
25	Sharullizam M. Sanusi	A development of a surgical equipment: Trochar	2003
26	Mohd Azriman Mat Ali	A Development Of A Surgical Equipment: Endosurgical Grasper	2003
27	Hamzah Deraman	A Design Of A Compliant Robotic Grasper	2003
28	Mohd Riduan Ngah	Rapid Prototyping for Compliant Mechanisms	2003
29	Mohd Shahril Shah	A design and analysis of A Compliant Aircraft Wing	2003
30	Mohd Sabri Sidik	An Improvement of a design and analysis of a compliant aircraft wing.	2004
31	Ahmad Fauzi Samsudin	A design and analysis of a wheelchair for handicapped user	2004
32	Khairil Shahril Shaffee	A development of an endoscopic grasper for neuro-surgery's application	2004
33	Mohd. Farizan Jailan	A design and analysis of crutches mechanism	2004
34	Abdul Malik Zainal Abidin	A design and analysis of a compliant car wiper using topology optimisation method	2004
35	Mohd Fazlin M Hairi	Finite element method for the application of lateral muscle loading and its effect on femoral strain distributions	2004
36	Rozman Ghazali	Analysis of orthopaedic screws for bone fracture fixation using finite element analysis	2004
37	Chew Soon Chai	Improvement of hip implant Design for Total Hip Replacement	2004
38	Mohd Sharizal A. Aziz	An Improvement of a design and analysis of a compliant aircraft wing.	2005
39	Md. Alif Firhan b. Mat Ariffin	A design and analysis of urinary catheter	2005
40	Wan Muhammad Hazim b. Wan Yusof	A design and analysis of a wheelchair for handicapped user	2005
41	Khairul Anuar b. abd. Karim	Finite element method for the application of lateral muscle loading and its effect on femoral strain distributions	2005
42	Tan Chiat Joon	Analysis of orthopaedic screws for bone fracture fixation using finite element analysis	2005
43	Abu Hanifah Mohd Kamal	A design and analysis of compliant MEMS for electronic packaging	2005
44	Zulhelimie	An Improvement of hip implant Design for Total Hip Replacement	2005
45	Arief Husaini Ruazani	An Improvement of hip implant Design for Total Hip Replacement	2012
46	Muhammad Fadhil bin Razali	A design and analysis of TKR	2012
47	Thor Ming Tze	A design and analysis of dental implant	2012
48	Abdul Muta'al bin Nawawi	An Improvement of hip implant Design for Total Hip Replacement	2013
49	Hamal Aziz	A design and analysis of TKR	2013
50	Khoay Boon Aik	A design and analysis of dental implant cement for total hip replacement to prolong implant life	2013

FYP- UiTM Students

No	Student	Topic	Year
1.	Mohd. Hafidzi Yusof, 2011197021	Innovative Design and analysis of total hip replacement	2014
2.	Fardauss bin Ismail, 2011997275	Innovative Design of cardiac stabilizer	2014
3.	Luqmanul Hakim bin Kamarul Hakim 2012407136	Investigation of various gait analysis in lower limb prosthetics: improvement of quality of life through physical activity and exercise	2014
4.	Ahmad Rizal bin Ribuan 2012633258	Investigation of new implant material and cement for total hip replacement to prolong implant life	2015
5.	Hazwan bin Zulkiflee 2012668488	Biomechanical characterisation of cranio-maxillofacial resorption model	2015
6.	Amir Hakim bin Ahmad Fuzi 2012688788	A reusable Endosurgical grasper using compliant mechanism	2015
7.	Muhammad Zubair bin Abd Rehim 2012878256	A study of the performance of metallic and functionally graded material(FGM) tibia tray components in total knee replacement joints	2015
8.	Muhammad Aiman Firdaus Adnan 20122677572	Design and analysis of External fixator for lower limb.	2015
9.	Mohammad Faqih bin Ali 2012930399	Design and analysis of hybrid prosthesis for THR	2015
10.	Mohd Nurhamimin bin Zaidong 2012354537	Foot antropometry using Brannock device and foot caliper among students of Faculty of Engineering, UiTM, Shah Alam	2015
11.	Mohamad Khairol Nizam bin Mohamad Nor 2013465456	Cradle like patient lifter	2016
12.	Syed Ahmad Syafiq Bin Syed Omar 2013835142	Solar Air Conditioning for Hospital	2016
13.	Faisal bin Padzil 2013289292	Modeling and design of origami mechanisms with compliant facets	2016
14.	Mohamad Hasrol Azlan bin Che Hassan 2013404424	Modeling and analysis on Inflation of Balloon Catheter	2016
15.	Ahmad Faris Hamizan bin Ahmad Hafidz 2012497016	Modeling and analysis of artificial human lumbar spine	2016
16.	Muhammad Anwar bin Mohd Asri 2012400962	Modeling and analysis artificial heart	2016
17.	Nur Syafiqah Binti Kamaruddin 2013228326	Sound Absorption Coefficient Of Coir Fibre With Polylactic Acid (PLA)	2016
18.	Tengku Muhammad Zulhafiz bin Tg Amran 2013100765	Experimental setup of Hip Prosthesis using fatigue test IOS-7206	2017
19.	Muhammad Syahid Bin Abdul Aziz 2013239672	Sound Absorption Coefficient of Coir Fibre with Polylactic Acid(PLA): Mechanical studies	2017
20.	Mohamad Fathi bin Ab Aziz	A study of metallic tibia tray components in total knee replacement using functionally graded material(FGM)	2017

21.	Muhammad Nazif Bin Nazri 2013296786	The use of bamboo/carbon fiber hybrid laminated composites as locking compression plate (LCP) for tibia fracture treatment	2017
22.	Muhamad Faiz bin Borhanuddin 2013440048	Experimental investigation on the effectiveness of different insoles on the plantar pressure distribution	2018
23.	Abdul Muhaimin Bin Normaly Kamal 2015829304	Effects of obesity on static plantar pressure distribution of male adult.	2018
24.	Muhamad Ammar bin Abdul Rahman 2015166041	Effects of insoles and additional foam on the pressure distribution of sport shoes.	2018
25.	Mohammad Hanafi Bin Seman 2015258432	Development of high flexion femoral component for Total Knee Arthroplasty (TKA)	2018
26.	Muhammad Firdaus Mohd Sani 2015636614	Investigation of the new implant material and cement for total hip replacement	2018
27.	Muhammad Azzakiriin Mohd Shuhaimi 2015896314	A survey of manufacturing process to produce implant and a design of THR	2018
28.	Noraiman Syahmi Abdul Rahman 2015208626	Finite element analysis of uncemented hip prosthesis	2018
29.	Abdul Quddus Bin Tumirin 2015859628	Design and analysis of flapping bat wing by using compliant mechanism technique	2018
30.	Ahmad Khairulanam bin Mohamed Noor 2016229908	Experimental investigation on the effectiveness of different insole on the plantar distribution	2018
31.	Aqib bin Abd. Jalil 2015149379	New Design of total ankle arthroplasty for Asian	2018
32.	Abdul Quddus Bin Tumirin 2015859628	Design and analysis of flapping bat wing by using compliant mechanism technique	2018
33.	Hadif Irfan bin Hizam 2016229896	Design and analysis of wall crane	2018
34.	Muhammad Amir Hasif bin Hisham 2015104081	Investigation human dislocation using 3-D finite human hip model	2018
35.	Rezchell Chame Alysion 2016230094	Finite element investigation on the effectiveness of different insoles on the plantar pressure distribution	2018
36.	Mohammad Arsyad bin Azemi, 2016717079	Design for additive manufacturing and fEA for Hi Flexion TKR	2019
37.	Muhammad Nabil Fikri bin Mohamad Saufi, 2016238466	Development of high flexion TKR: Design, analysis, prototype using 3D printing	2020
38.	Nur Aqilah binti Nor Azman, 2016317261	DFAM and TOPOPT for Hip implant	2020
39.	Muhammad Zaki bin Norazllan, 2017160887	Development of high flexion TKR	2020
40.	Iman Nur Alissa Binti Md Rosli, 2018264586	Development of instrumented hip implant for THR	2020
41.	Muhammad Izzuddin Bin Md Isa, 2018455002	Investigation of The New Implant Material And Cement For Total Hip Replacement: Simulation study	2020
42.	Muhammad Adam Irfan Bin Muzam 2017581871	Portable electric scooter for people with disabilities	2021
43.	Wan Muhammad Abqari Bin Wan Abdul Razak 2019725741	Design of High Flexion Knee Prosthesis Using TRIZ	2021

44.	Muhammad Aidil Aswad Bin Tuah 2017312019	Design For Additive Manufacturing For Hip Flexion Knee Implant	2021
45.	Luqman Haikal Bin Abd Aziz, 2019689322	Structure Analysis And Design For Offshore Riser Clamp Pipeline	2021
46.	Muhammad Amar Bin Yatim Selamat, 2019452306	Finite Element Analysis Of Different Hip Implant Designs Along With Femur	2021
47.	Muhamad Amirul Khair Bin Muhamad Razl, 2019660116	Finite element analysis of dental implants design	2021
48.	Muhammad Asyraf Bin Fakhrul Anuar, 2019455502	Reconstruction of Insoles for Sprint Spike : Design and Analysis using Finite Element Analysis (FEA)	2021
49.	Siti Zaharozad Binti Ismail, 2018259772	Development of Electric Scooter (Mechanical Design)	2021
50.	Abdul Qayyum Bin Ahmad Fadzil, 2018298272	Development Of Electric Scooter (Power And Energy Recovery System)	2021
51.	Muhammad Irfan Bin Miskon, 2018654012	Finite Element Analysis (FEA) Titanium Plate for Mandibular Jaw	2021
52.	Lokman Hakimi Bin Rosli, 2018226078	Finite Element Analysis Of Different Total Knee Implant Designs	2021
53.	Megat A'izzul Illmi Bin M. AlMuz-Zammil, 2018238782	Investigating Osteoarthritis In The Human Hip Using Finite Element Model	2021
54.	Muhammad Rafiq bin Mohd Roslee, 2018298198	Assessing the mechanical properties and stress distribution in dynamic ankle foot orthosis : FEA	2021

Role	Number of post graduate students				Number of undergraduate students	
	PhD		Master		Final Year Project	
Main Supervisor	Graduated	On-going	Graduated	On-going	On-going	Completed
	2	1	5	2	12	93
Co- SV	2	1	0	2	0	0

B. RESEARCH

No	Research Title	Grant type & Source	Total funds	Role	Year
1	Impact Response Studies of Knee Implant for Performing High Flexion Activities	e-Science MOSTI	RM 211,028.00	Leader	1/9/2007-31/8/2009
2	Biomodeling for cranio-maxillofacial reconstruction: aesthetical and functional patient specific biomaterial implants and Prostheses	RU-T USM	RM 999,089.00	Member	1/11/2013-31/10/2017
3	Multi-Spin Multi-Ball Single Roller Ball Throwing Machine	PRGS	RM75,600	Member	1/7/2015-30/6/2018
4	Biomechanical characterisation of cranio-maxillofacial resorption model Ref: FRGS/2/2014/TK01/UITM/02/1	FRGS	RM 79,200.00	Leader	1/12/2014-31/11/2016
5	Fundamental studies of Natural Rubber Latex films for Bio-inspired micro air vehicle	FRGS	RM 79,200.00	Member	1/12/2014-31/11/2016
6	Prototyping Of Porous Niti Alloy Screw And Abutment By Metal Injection Moulding (MIM)	PRGS	RM199,410.00	Member	15/8/2017-14/8/2019
7	Prototyping Of Customized High Flexion Femoral Component For Total Knee Arthroplasty	PRGS	RM138,00.00	Leader	1/1/2018-31/12/2020
8	Friction Reduction And Tribological Behavior Of The New Polymer Micro-Bearing Solid Polymer Lubricant In Relation To The Epoxy Viscosity.	FRGS	RM78,200.00	Member	1/1/2019-31/12/2021
9	Multi-Level Analysis Of Radiation Effects On Bone Morphology And Mechanical Properties In A Murine Model.	RACER	RM51,200.00	Member	1/9/2019-31/8/2021
10	Reduction In Void Volume Fraction Of The Nylon Micro-Beads/Epoxy Composites Via Fused Technique	Racer	RM51,200.00	Member	1/9/2019-31/8/2021
11	Compliant Mechanisms	USM Short term Grant	RM13,700.00	Leader	1/9/2000-31/11/2001
12	Structural Optimization using Multi-Criteria Optimization	USM Short term Grant	RM17,600.00	Leader	16/4/2001-30/4/2003
13	Fatigue Analysis of compliant aircraft wing	USM Short term Grant	RM8,806.00	Member	15/4/2004-14/4/2006
14	Topology Optimization of Hip Implant to reduce stress shielding	USM Short term Grant	RM19,700.00	Leader	1/9/2004-31/8/2006
15	Shape Optimization for moving node of vibration to assigned position	USM Short term Grant	RM19,400.00	Member	1/2/2005-31/1/2007
16	Topology Optimization of Knee Implant to reduce stress shielding	USM Short term Grant	RM19,700.00	Leader	1/9/2006-31/8/2008

17	Development of bone resorption algorithm for hip prosthesis	USM Seed grant	RM5000.00	Member	1/4/2011-31/3/2012
18	Development of bone resorption algorithm for hip prosthesis	USM Short term Grant	RM31,900.00	Leader	1/6/2011-31/5/2013
19	Maxillofacial Implants Research Group	REI- UiTM	RM 32,000.00	Member	1/5/2015-30/4/2018
20	Finite Element Modeling Uncemented Hip Stem Primary Fixation: The Effect Of Bone Visco-Elastic Properties To The Interference Fit	LESTARI-UiTM	RM20,000.00	Member	1/12/2015-31/11/2017
21	Identification Of Low Diffuse Reflective Marker For Motion Capture Application In Teaching And Learning Environment Active	LESTARI-UiTM	RM20,000.00	Member	1/12/2015-31/11/2017
22	Fundamental Study of composite hip implant to improve fatigue and impact resistance	BESTARI-UiTM	RM35,000.00	Leader	1/9/2016-31/8/2018
23	Finite Element Modeling Of Uncemented Hip Stem Primary Fixation: The Effect Of Bone Visco-Elastic Properties To The Interference Fit.	GIP-UiTM	RM20,000.00	Leader	1/7/2017-30/6/2018
24	Physico-Mechanico And Thermal Properties Of The Kenaf-Coated Treatment Method For Thermosets Polymer Composite System	LESTARI-UiTM	RM30, 000.00	Member	1/7/2019-30/6/2020
25	Characterization Of Bio - Inspired Flapping Wing With Compliant Morphing Mechanisms Based On Bat Wings	GIP-UiTM	RM20,000.00	Leader	1/4/2019-30/3/2020
26	Fundamental Study Of Design For Additive Manufacturing(DfAM) For Hip Implant	SRP- UITM	RM25,000.00	Member	1/12/2020-31/5/2022
27	Manufacturing Of Hip Implant Using 3D Printing Technology	SRP-3D GENS SDN BHD	RM25,000.00	Leader	1/12/2020-31/5/2022
28	Study of Design for Additive manufacturing for coated hip implant	Penyelidikan geran kolaborasi entiti penyelidikan UiTM(KEPU)	RM40,000.00	Leader	15/7/2021-14/7/2023

Summary of Research Grant obtained: Year 2000-2023

Type of Grant	Amount
University Grant Leader Member	RM132,900.00 RM1,132,295.00
National Grant: KPT Leader Member	RM217,200.00 RM534,810.00
National Grant: MOSTI Leader	RM211,028.00
Total Accumulated grant	RM2,228,233.00

C. PUBLICATIONS

C1 THESIS AND TECHNICAL REPORT

- 1] Zahurin Samad, M.Z. Abdullah, **Solehuddin Shuib**, EMAP Proceeding, 5-7th December, 2004. [ISBN:983-2414-86-X]
- 2] S. Hernandez, C.A. Brebbia, **Solehuddin Shuib**, Computer Aided Optimum Design in Engineering IX, page 257-266, WIT Press 2005. [ISBN: 1-84564-016-0]
- 3] **Solehuddin Shuib**, M.I.Z. Ridzwan, M.N.M. Ibrahim, and M.A.F.M. Ariffin, A.B. Abdullah , Analysis of Stress on Inflation of Balloon Catheter using Finite Element Method, Biomed 06, IFMBE Proceedings 15, pp. 178-181, 2007 www.springerlink.com © Springer-Verlag Berlin Heidelberg 2007[978-3-540-68016-1 (Print) 978-3-540-68017-8 (Online)]
- 4] Abdul Ghafar Ismail, Roosfa Hashim, **Solehuddin Shuib**, Barkawi B. Sahari, S.V. Wong, Manohar Arumugam and A Halim Kadarman, ` Finite Element Method Prediction Of Hip Prosthesis In Bone Resorption Environment', Prosiding Seminar Hasil Penyelidikan, Kementerian Pengajian Tinggi, page 241- 258, Jilid III, 2012. [ISBN: 978-983-9122-20-6]
- 5] **Solehuddin Shuib**, Finite Element method prediction of hip prosthesis in bone resorption environment, Ph.D thesis, UPM, 2012.
- 6] Zulaiha Ali Othman, Zurina Muda, **Solehuddin Shuib**, Kematangan sosial ke arah Masyarakat Harmoni, Akademi Penyelidikan Haluan, 2015 [9789671073193].
- 7] Zulaiha Ali Othman, Zurina Muda, **Solehuddin Shuib**, Kematangan sosial ke arah Masyarakat Harmoni, Akademi Penyelidikan Haluan, 2016 [9789671073193].
- 8] Jurnal Teknologi, Volume 76 No. 7, ISSN 2180-3722, Chief Editor, Publisher: UTM Press, 2015. (<https://jurnalteknologi.utm.my/index.php/jurnalteknologi/issue/view/202>)
- 9] Journal of Faculty of Mechanical Engineering 2014/2015, Executive Editorial committee, Publisher: FKM UiTM, 2015-2016
- 10] **Solehuddin Shuib**, Idris Saad, Abdul Halim Abdullah et al, Mechanical Engineering and Science, Volume 899, ISSN 1660-9336, Editorial board, Publisher: Trans Tech Publications, 2020.

C2 REFEREED JOURNAL PAPERS (SCOPUS/ISI/WOS)

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18	35	16	10

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- 38] Megat Saidi Ngah, Abdallah Aarab, Ismail Ahmad, **Solehuddin Shuib**, 'Domestic inquiry – factors in strengthening employer's capacity', Seminar Pembangunan Modal Insan 3, Universiti Sultan Zainal Abidin, 10 Oktober, 2011.
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56] **Solehuddin Shuib**, Amir Haqim Ahmad Fuzi and Siti Mariam Sh Ahmad, The Design Of Reusable Endosurgical Grasper Using Compliant Mechanism, the 5th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017) , 16-18th August 2017 in Krabi, Thailand.

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- 64] Shafiq Suhaimi, **Solehuddin Shuib**, Hamid Yusoff, A. Halim Kadarman, The Effect of Wing Margin Shape Generalisation on the Aerodynamic Performance of a Bat Inspired Wing, International Conference on Aviation Technology and Management 2018 (ICATeM 2018), 12-14 September, 2018, Kuala Lumpur, Malaysia.
- 65] Nursuhana Alauddin and **Solehuddin Shuib**, Systematic Cost Framework by Application of Universal Design (UD) Concept for Operating Instructions in Design Stage, 5th International Conference on Science and Social Research (CSSR2018), 5-6 December, 2018, Kota Kinabalu, Sabah.
- 66] Nik Ahmad Hambali Nik Ab Rashid, **Solehuddin Shuib**, Muhammad Aiman Firdaus Adnan, Amran Ahmed Shokri, Three-Dimensional Modeling and Finite Element Analysis of An Ankle External Fixator, Mechanical Engineering And Science Postgraduate International Conference (MESPIC) 2018, ILD, Negeri Sembilan, Malaysia, 5 December, 2018.
- 67] Muhammad Saiful Islam Izra'ie, **Solehuddin Shuib**, Rohana Ahmad, Mohd. Amar Shahmin, Influence of Dental Implant Design on Stress Distribution and Micromotion of Mandibular Bone, Mechanical Engineering And Science Postgraduate International Conference (MESPIC) 2018, ILD, Negeri Sembilan, Malaysia, 5 December, 2018.
- 68] Shafiq Suhaimi, **Solehuddin Shuib**, Hamid Yusoff, , and A. Halim Kadarman, Aerodynamic Performance of a Flapping Wing Inspired by Bats, Mechanical Engineering And Science Postgraduate International Conference (MESPIC) 2018, ILD, Negeri Sembilan, Malaysia, 5 December, 2018.
- 69] Nur Faiqa Ismail, **Solehuddin Shuib**, Ahmad Zafir Romli, Surface Structure of Epoxy Treated Semantan Bamboo (*Gigantochloa scortechinii*), Mechanical Engineering And Science Postgraduate International Conference (MESPIC) 2018, ILD, Negeri Sembilan, Malaysia, 5 December, 2018.
- 70] Maizatul Afirah Ahmad, Muhammad Abid Zafran Mohd Yusri, **Solehuddin Shuib**, Abdul Halim Abdullah, Effects Of Proximal Cement Mantle Sizes In Total Hip Arthroplasty, 1st Research Colloquium 2019 (RC2019) , 26th – 27th September 2019 DRB-HICOM University of Automotive Malaysia Pekan, MALAYSIA , ISBN: 978-967-16676-2-0
- 71] Nik Ahmad Hambali, **Solehuddin Shuib**, Amir Radzi Ab Ghani, The Effectiveness Of Seat Belts During Car Crash: Preliminary Analysis Of Car Occupant Seatbelt And Injury Level During Crash Event, , 1st Research Colloquium 2019 (RC2019) , 26th – 27th September 2019 DRB-HICOM University of Automotive Malaysia Pekan, MALAYSIA , ISBN: 978-967-16676-2-0
- 72] **Solehuddin Shuib**, Influence of Dental Implant Designs on Stress Distribution and Micromotion Of Mandibular Bone, 5th International Exchange and Innovation Conference on Engineering & Sciences Kyushu University, Fukuoka, Japan October 24-25th, 2019 , ISBN 2434-1436
- 73] Muhamad Ridzuan Arifin, Hamid Yusoff, **Solehuddin Shuib**, and Shafiq Suhaimi, Mohd Fairuz Zakariya, Evolution of the Leading Edge Vortex Over a Flapping Wing Mechanism, ICE & ICIE 2019 4th International Conference on Ergonomics & 2nd International Conference on Industrial Engineering, 27-28 August 2019.

- 74] S. Suhaimi, **S. Shuib**, H. Yusoff, A.H. Kadarman, Numerical Simulation Of A Flapping Wing Based On Bat Wings, 11th International Conference On Numerical Analysis In Engineering (NAE) 2019, 20-22 August 2019, Bangi, Selangor, Malaysia
- 75] Mohd Hafiz Mohd Noh, Nor Hayati Saad, Noriah Yusoff, **Solehuddin Shuib**, Assessing Learning in Postgraduate Education (Mix Mode Study), International Conference on e-Learning (iCeL 2019) & Symposium on Teaching Excellence, Learner Driven Learning and Academic Research (Stellar 2019), 6-7 November, 2019, Hotel Tabung Haji, Kota Kinabalu, Sabah.
- 76] **Solehuddin Shuib**, Mohammad Arsyad Azemi, Iffa Mohd Arrif and Najwa Syakirah Hamizan, "Design for Additive Manufacturing and Finite Element Analysis for High Flexion Total Knee Replacement, The International Symposium on Biomedical Engineering (ISBE) 2020, July 28-29th, 2020, (online)
- 77] **Solehuddin Shuib**, Muhammad Faris Abd Manap, Muhammad Amir Hasif Hisham, Najwa Syakirah Hamizan and Iffa Mohd Arrif, Investigation of Human Hip Dislocation Using 3-D Finite Human Hip Model, , The International Symposium on Biomedical Engineering (ISBE) 2020, July 28-29th, 2020, (online)
- 78] Shafiq Bin Suhaimi, **Solehuddin Shuib**, A.Halim Kadarman, Hamid Yusoff, Lift Study of a Flapping MAV Wing Design Based on Bat Wings, Conference on Innovation in Technology and Engineering Science (CITES 2020), 4-5 November 2020, (online)
- 79] Najwa Syakirah Hamizan, **Solehuddin Shuib**, Amir Radzi Ab Ghani, Abdul Halim Abdullah, Muhammad Rajaie Ahmad Mohd Zain, Nawaf Hazim Saeid and Izhar Aziz, Design for Additive Manufacturing (DfAM) for Hip Prosthesis for 3D Printing, WCOSSET 2021, 8-13 March, 2021 (online)
- 80] Iffa Mohd Arrif, **Solehuddin Shuib**, Mohd Afzan Mohd Anuar, Amran Ahmed Shokri, Bidyut Pal and Izhar Aziz, Design and Finite Element Analysis of Total Knee Replacement for Additive Manufacturing, WCOSSET 2021, 8-13 March, 2021 (online)
- 81] Muhammad Izzudin Md Isa, **Solehuddin Shuib**, Ahmad Zafir Romli, Amran Ahmed Shokri, Iffa Mohd Arrif and Najwa Syakirah Hamizan , Finite Element Analysis (FEA) Of The Different Cement Mixture For Total Hip Replacement, 1st National Biomedical Engineering Conference(NBEC2021), 9-10 November, 2021(online)
- 82] Iman Nur Alissa Md Rosli, **Solehuddin Shuib**, Amran Ahmed Shokri, Amir Radzi Ab Ghani, Najwa Syakirah Hamizan, and Iffa Mohd Arrif, Development of Hip Implant: Gait Study and Finite Element Analysis, 1st National Biomedical Engineering Conference(NBEC2021), 9-10 November, 2021(online)

Summary of International Conferences/National Conference

International Conference	National Conference
63	19

D. INTELLECTUAL PROPERTY RIGHT(IPR)

No.	Title	IPR Type	IPR No.	Year
1	A reusable endo surgical grasper using compliant mechanism	Copyright	AR2016002441	17/9/2016
2	SIPBONE: Numerical approaches for craniomaxillo-facial for mandibular bone remodelling	Copyright	LY2017002480	13/6/2017
3	Bat Inspired Flapping Mechanism for Micro Air Vehicles(MAV)	Copyright	LY2019004064	2/8/2019
4	Hybrid Stem Design for Total Hip Replacement(THR)	Copyright	LY2018004251	22/9/2018
5	A Method For Achieving High Flexion Range Of Motion In Total Knee Replacement System And A System Thereof	Patent filing	PI2021001776	31/3/2021

E. CONFERENCE AND SEMINAR (Involvement/Organizer/Committee Members)

No	Conference Name	Role	Organizer	Date
1	International Conference on Advances in Mechanical Engineering 2015 (ICAME2015)	Publication committee, Organizer, Session Chairperson	FKM, UiTM, Shah Alam, Selangor	26-27 August, 2015
2	International Conference on Advances in Mechanical Engineering 2015 (ICAME2015): Title- A Study of the Performance of Metallic Tibia Tray Component in Total Knee Replacements	Invited Speaker	FKM, UiTM, Shah Alam, Selangor	26-27 August, 2015
3	International Conference on Advances in Mechanical Engineering 2015 (ICAME2015)	Reviewer	FKM, UiTM, Shah Alam, Selangor	26-27 August, 2015
4	Research innovation Symposium and Exposition 2015 (RISE2015)	Director	FKM UiTM & MOSTI	15-16 November 2015
5	IOS Lecture Series: Title: CAD & FE Modelling In Biomedical Engineering	Invited Speaker	IOS, UiTM	9/1/2016
6	International Conference on Advances in Mechanical Engineering 2015 (ICAME2017)	Publication committee, Organizer, Session Chairperson	FKM, UiTM, Shah Alam, Selangor	16 - 18 Aug 2017
7	Mechanical Engineering And Science Post Graduate International Conference(MESPIC 2018)	Vice Chairman	FKM, UiTM, Shah Alam, Selangor	5/12/2018
8	University-Industry Lecture Series: Title - Current research in Biomechanics and its applications	Invited Speaker	3D Gens Sdn Berhad, Biomechanical & Clinical Engineering(BioMEC)	10/7/2019
9	5th International Exchange and Innovation Conference on Engineering & Sciences (IEICES 2019), Kyushu University, Fukuoka, Japan: Title- Influence of Dental Implant Designs on Stress Distribution and Micromotion Of Mandibular Bone	Keynote Speaker	Kyushu University, Japan	24-25 October, 2019

10	University-Industry Lecture Series: Title - DfAM & FE Modelling In Biomedical Engineering	Invited Speaker	3D Gens Sdn Berhad, Biomechanical & Clinical Engineering(BioMEC)	3/2/2020
11	The International Symposium on Biomedical Engineering (ISBE) 2020, July 28-29th, 2020, (online) Title: The Current Trend of Finite Element Modeling in Biomechanics in the era of Industrial Revolution 4.0 (IR 4.0)	Keynote Speaker	Universitas Indonesia	28/7/2020

F. CONSULTANCY/INDUSTRIAL LINKAGE/COLLABORATION

No.	Industry/Community /Collaborator	Project details/Activities	Role	Duration	Amount
1	SELIA-TEK SDN BHD , 41 Jalan SS 22/23, Damansara Jaya, Selangor Darul Ehsan	Modeling, analysing and optimizing Aerial Bundled Cable Summary: To remodel, analyse and optimize components of ABC, to redesign a failure limit for each component at certain load, to identify a capacity range for components to meet a specification requirement.	Leader	1.10.1999 – 31.09.2000	RM26,000.00
2	UAC BERHAD , 36, Jalan Portland, Tasik Industrial Estate, 31400 Ipoh, Perak	Project Title: Mathematical Modeling of tensile test on a corrugated sheet. Summary: Modeling the product and performing FEA using I-DEAS software. Analysis of the result and refining the model in order to understand the product behaviour under tensile load, developing a mathematical Model relating tensile load (T) to radius, r, pitch p, and thickness t. The corrugated sheet. Statistical analysis and verification of the correlation equation was performed.	Leader	1.12.2000 – 30.12.2001	RM20,700.00
3	Matsushita Electronic Motors(M) Sdn Bhd LOT 12, Jalan PKNK Utama, Kawasan Perindustrian Sungai Petani, P.O. Box 100, 08000 Sungai Petani, Kedah	Project Title: Small DC Motor: Noise and Vibration Improvement Summary: To reduce the vibration and noise level from the M1N10 and M1N6 small d.c. motor manufactured by MAEM.	Leader	01.11.2002 – 14.04.2003	RM33,326.36
4	Advanced Medical Technology Sdn.Bhd , 49-A, Lorong Bertam Indah 13200 Kepala Batas, Seberang Perai, Penang	Project Title: Prototype of autodisable syringe assembly Summary: Prototype of auto-disable syringe assembly	Leader	5.03.2004 – 14.09.2004	RM40,00.00

5	Module writer & Lecturer for Engineering Drawing Course	Malaysia Institute Of Chemical Engineering Training (MICET)	Leader	June – Nov. 2002	
6	Malaysian Institute Of Chemical Engineering Training (MICET)	Module writer for teacher's and student's manual for Engineering Drawing Course	Leader	Jan. 2003– March, 2003	
7	ITTAR	Revised a module of Engineering Mechanics Course,	Leader	2003	
8	Ministry Of Education(MOE)	Project title: A study of public School Maintenance. Summary: M& E	Leader	1 Jan. 2005 – 31 Dec, 2005	RM4.2 Million
9	Wave Energy Sdn Berhad	Project Title: A wave energy study in Malaysia Summary: To do dynamics analysis and material selection of the wave energy simulator.	Leader	01.1.2003 – 30.09.2003	
10	TZT Sdn Berhad	Project Title: Shock absorber Summary: To Analyze to vibration level of a shock absorber.	Leader	21.4.1999 – 30.09.2000	
11	Malaysian Institute Of Chemical Engineering Training (MICET)	Module writer & Lecturer for Mechanical Engineering Lab Course	Leader	Mar, 2006	
12	ACCESS SERVICES & CONSULTING SDN. BHD. Taman Setia, Johan Setia, Klang	Project title: Development of AC system for operation theater at Barakah Hospital, Johan Setia, Klang & UMBI, HUKM	Member and industrial attachment	15.11.2011 – 31.12.2012; 15.7.2012 - 14.9.2012; 10.6.2013- 9.8.2013; 1 Sept 2015- 31 Aug. 2017;	Industrial attachment
13	PERMAI PRESTIJ SDN. BHD No. 64 & 64A, Jalan Badminton 13/29 Tadisma Business Park, Seksyen 13, 40100 Shah Alam, Selangor	Project title: Oil and Gas (O&G)	Member	10.6.2013- 9.8.2013	Industrial attachment
14	UiTM Medical Campus, Sungai Buluh, Selangor	Project title: Facilities management of medical equipment di Medical Campus, UiTM Sungai Buluh, Selangor	Leader	1 March 2016- July 2016	RM800,000.00 (consultancy without monetary)
14	3D Gens Sdn Berhad Shah Alam, Selangor	Development of Hi flexion Knee Implant using 3 D Printing Technology	Leader	1 Jan. 2018-31 Dec. 2020	RM138,000.00

15	TOP-MECH Provincial Sdn Berhad, Klang, Selangor	Simulation and Ansys on Reducing Swinging and Swaying Effect of Overhead Traveling Crane	Leader	10 July 2018-6 Sept. 2018	Student industrial attachment: Hadif Irfan Hizam 2016229896
16	Politeknik Metro Tasek Gelugor, Penang	CATIA Training for Profesionak Diploma in Aerospace Machining	Member	8/11/2018 – 11/11/2018	RM9900.00
16	3D Gens Sdn Berhad Shah Alam, Selangor	Organizing conference, Academic and research collaborations. Date of Agreement : 24 Sept 2019 Date of MOU signing: 24 Sept 2019	Member	5 years	
17	UBakrie- UiTM	Organizing conference, Academic and research collaborations. Date of Agreement:	Member	5 years	
18	MRUN: UiTM-USM	Organizing conference, Academic and research collaborations. Date of Agreement: 1 Mar 2020	Leader	1 year	RM70,000.00
19	Kyushu-UiTM	Organizing conference, Academic and research collaborations. Date of Agreement: 1 Jan 2019 Date of MOU signing: 18 Mar, 2019	Member	1 year	

Summary of MOU, Consultancies

ITEM	NUMBER	AMOUNT
MOU	4	RM70,000.00
No of consultancy and amount	14	RM4,467,926.36
No of consultancy without Monetary	2	RM900,000

G. SPECIAL INVITATION/APPOINTMENTS/EXPERTISE**G1 National/University/Faculty level -MSc/PhD Examiner/Chairperson/Panel/Judge**

APPOINTMENT/INVITATION	UNIVERSITY/AGENCY GOVERNMENT/PRIVATE/PROFESIONAL BODY	DURATION
Internal Examiner – M.Sc. Thesis: Aziz@Awang bin Mat Ali, Design and Development of Roselle Calyx Harvester	School of Mechanical Engineering, Universiti Sains Malaysia	Mar. 2005
Internal Examiner – M.Sc. Thesis: Ahmed Mohamed Abd ElMagid ElNaggar, Volume Determination of Smooth Surfaces Using Structured Lighting and Their Similarity Measure	School of Mechanical Engineering, Universiti Sains Malaysia	Jan. 2006
Internal Examiner - MSc Thesis: Chong Shah Leong, Study of Flow Induced Vibration Using Finite Element Method	School of Mechanical Engineering, Universiti Sains Malaysia	18 Mar. 2002
Internal Examiner – Ph.D. Thesis: Lau Chun Sean, Development, performance analysis and optimization of reflow soldering process for ball grid array application	School of Mechanical Engineering, Universiti Sains Malaysia	Mar. 2013
Internal Examiner – Ph.D. Thesis: Investigation on Flexible type printed circuit board electronics in the flow environment	School of Mechanical Engineering, Universiti Sains Malaysia	November, 2013
Internal Examiner – M.Sc.: EM780 Name: Mastura bin Abdul Rahim Title: Finite element implementation to predict failure of composite laminate	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor	21/8/2015
Internal Examiner – M.Sc. EM750 Name: Mohamad bin Mali Title: Deformation and failure analysis of composite laminates under various load and boundary conditions	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor	18/9/2017
Internal Examiner – Ph.D EM950 Nama: Noor Leha Binti Abdul Rahman Title: Investigation on the effect on infiltration parameters to the mechanical performance of Biomorphic silicon carbide	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor	9/6/2020

External Examiner – MSc Nama: Wan Iryana bt Wan Md Nor Title: Wrinkling Prediction in deep drawing metal forming: Application of kinematic hardening model and mixed hardening model and experimental validation	Fakulti Kej. Mekanikal, Universiti Malaysia Pahang(UMP), Pahang	2/6/2017
External Examiner – MSc Name: Ahmed Saieed Title: Two Phase Separation in T-Junction	Faculty of Mechanical Engineering, Universiti Teknologi Petronas(UTP), Seri Iskandar, Perak	2/8/2017
External Examiner – MSc Nama: Mohammad Hazrin Ismail Tajuk: The Implementation Of Shape-Changing Mechanisms On An Aircraft Wing	Fakulti Kejuruteraan Mekanikal Universiti Teknikal Malaysia Melaka (UTeM)	17/1/2018
External Examiner – MSc Nama: Ngo Nguyet Tran Title: Erosion due to Submicron particles transported in multiphase gas liquid pipeline	Faculty of Mechanical Engineering, Universiti Teknologi Petronas(UTP), Seri Iskandar, Perak	17/4/2018
External Examiner – Ph.D Name: Raed Abbas Jessam Title: Investigation on the performance enhancement of S-Shaped diffuser of gas turbine using energy promoters	Faculty of Mechanical Engineering, Universiti Teknologi Petronas(UTP), Seri Iskandar, Perak	12/7/2018
External Examiner – MSc. Name: Mohammed Abdullah Mutafi, Title: Numerical investigation on the effect of balconies up stand structure on smoke contamination in atrium upper balconies	Faculty of Mechanical Engineering, Universiti Teknologi Petronas(UTP), Seri Iskandar, Perak	11/2018
External Examiner – PhD. Name: Monis Abdulmanan Abdullah, Title: Modeling and Experimental Analysis of Passive Quantum Thermo-Magneto sensor based Quasiparticle System of Stable Carbon Isotopes	Faculty of Mechanical Engineering, Universiti Teknologi Petronas(UTP), Seri Iskandar, Perak	6/2020
External Examiner – PhD. Name: Izzawati Binti Basirom, Title: Finite element analysis of internal fixation stability induced by bone-implant interface	School of Mechatronic Engineering Technology, Universiti Malaysia Perlis(UniMAP), Perlis	11/2020
Panel of Judge to evaluate poster presentation during the 7th International Conference on Postgraduate Education Institute of Graduate Studies, Universiti Teknologi MARA 40450 Shah Alam, Selangor, MALAYSIA	Institute of Graduate Studies, Universiti Teknologi MARA 40450 Shah Alam, Selangor, MALAYSIA	1/12/2016

Panel of Judge to evaluate Invention, Innovation & Design Exposition 2018(IIDEX 2018)	DATC, Universiti Teknologi MARA 40450 Shah Alam, Selangor, MALAYSIA	27/9/20108
External Examiner for Academic Programme (Diploma Teknologi Berasaskan Kayu), TTAC, MBOT	Politeknik Kota Kinabalu, Sabah	2/2/2021
External Examiner for Academic Programme (Diploma Kejuruteraan Mekanikal(Pembungkusan), ETAC, BEM	Politeknik Sultan Salahuddin Abdul Aziz Shah, Selangor	23/3/2021
External Examiner for Academic Programme (Diploma Teknologi Pemesinan Industri), TTAC, MBOT	Kolej Vokasional Kota Tinggi, Johor	13/4/2021
External Examiner for Academic programme (Degree Program for Mechanical Engineering, EAC, BEM	UMP	14-15 September, 2021
Pakar rujuk kajian pembangunan dan penilaian keberkesanan KIT peraturcaraan berkonsepkan IOT dan pakar STEM (pakar STEM) Mohd Latiffi Abdul Ghani, Fakulti Seni Komputeran dan Industri Kreatif	UPSI	22/1/2021
Panel penilai luar FRGS 1/2020	UTEM	21/5/2020
External Examiner – PhD. Name: Muhammad bin Amran, Title: Investigation of magnetic induction spectroscopy technique for internal screw self-loosening detection	Fakulti Teknologi Kejuruteraan Elektrik, Universiti Malaysia Perlis(UniMAP), Perlis	1/2022

Post Graduate examiner:

Number of Examined Thesis	
PhD	Master
6	11

G2 Appointment at International Level

ROLE	SEMINAR/JOURNAL	LEVEL	DATE/YEAR
Editorial board	Journal of Applied Sciences, 2006 – 2008.	International	2006-2008
Reviewer	Journal of Applied Sciences (JAS)	International	March 2007
Reviewer	Journal of Applied Sciences (JAS)	International	April 2007
Reviewer	Information Technology Journal (ITJ)	International	April 2007
Reviewer	Asian Journal of Scientific Research (AJSR)	International	June 2007
Reviewer	International Journal of Biological Chemistry(IJBC)	International	June 2007
Reviewer	Journal of Applied Sciences (JAS)	International	Dec 2007
Reviewer	International symposium on Mechanical Science and Technology (ISMST 2010)	International	Dec 2010
Reviewer	International Conference on Biomedical Engineering and Sciences(IECBES2012)	International	2012
Reviewer	Journal of Scientific Journal and Essays (SRE)	International	2012
Reviewer	Journal of Mechanical Engineering(Jmeche),UiTM, Malaysia	International	25/10/2016
Reviewer	Journal of Mechanical Engineering(Jmeche),UiTM, Malaysia	International	9/6/2016
Reviewer	Journal of Mechanical Engineering(Jmeche),UiTM, Malaysia	International	19/9/2016
Reviewer	Journal of Australasian Physical & Engineering Sciences in Medicine	International	7/5/2019
Reviewer	Malaysian Journal of Fundamentals and Applied Sciences(MJFA)	International	29/1/2020
Reviewer	Journal of Medical and Biological Engineering (JMBE)	International	29/8/2014
Reviewer	International Conference on Numerical Analysis in Engineering(NAE) 20 - 22 Aug 2019	International	22/12/2019
Reviewer	2014 IEEE Conference on Biomedical Engineering and Sciences - IECBES 2014	International	25/9/2014
Reviewer	2014 IEEE Conference on Biomedical Engineering and Sciences - IECBES 2014	International	25/9/2014
Reviewer	2014 IEEE Conference on Biomedical Engineering and Sciences - IECBES 2014	International	29/9/2014
Reviewer	TENSYMP 2014 IEEE Region 10 Technical Symposium	International	27/9/2014
Reviewer	2015 ICBAPS2015 International Conference on BioSignal Analysis, Processing and system	International	16/2/2015
Reviewer	4th International Conference on Advances in Mechanical Engineering 2015	International	16/5/2015
Reviewer	4th International Conference on Advances in Mechanical Engineering 2015	International	15/2/2015
Reviewer	4th International Conference on Advances in Mechanical Engineering 2015	International	15/2/2015
Reviewer	4th International Conference on Advances in Mechanical Engineering 2015	International	10/2/2015

Reviewer	4th International Conference on Advances in Mechanical Engineering 2015	International	16/2/2015
Reviewer	CSSR 2015 FMIA Functional Materials and Industry Applications	International	3/8/2015
Reviewer	2015 International Symposium on Health and Medical Sciences - Health Science	International	31/10/2015
Reviewer	2015 International Symposium on Health and Medical Sciences - Health Science	International	30/9/2015
Reviewer	2015 International Symposium on Health and Medical Sciences - Health Science	International	30/9/2015
Reviewer	2015 International Symposium on Health and Medical Sciences - Health Science	International	27/9/2015
Reviewer	2016 IEEE Region 10 Symposium (TENSYP) - Building Blocks	International	14/3/2016
Reviewer	2016 International Symposium on Health and Medical Sciences - Track B - Health Science	International	29/9/2016
Reviewer	IEEE Region 10 Conference (TENCON) 2017, Penang, Malaysia	International	20/6/2017
Reviewer	2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI) - ICACCI Track 2 : Computing and Informatics	International	20/6/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	21/4/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	9/5/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	9/5/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	3/7/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	9/5/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	12/5/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	15/5/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	5/7/2017
Reviewer	5 th International Conference on Advances in Mechanical Engineering 2017 (ICAME2017), Krabi Thailand	International	19/7/2019
Reviewer	International Conference on Biomechanics and Medical Engineering (ICBME2018)	International	15/8/2018
Reviewer	Malaysian Journal of Medicine & Health Sciences	International	21/5/2020
Reviewer	Journal of mechanical Engineering	International	9/12/2020
Reviewer	ICITAMEE Conference	International	7/6/2021
Reviewer	Proceedings of Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2021	International	26/6/2021

G3 Appointment at National level

ROLE	SEMINAR/JOURNAL/RESEARCH GRANT	LEVEL	DATE/YEAR
Reviewer	Journal of Industrial Technology(SIRIM),	National	May 2005.
Reviewer	Engineering Drawing textbook accessor, 2nd Edition, Penerbit UTM	National	21 November, 2004
Speaker	Solid Modeling & Rapid Prototyping Applications Workshop, School of Mechanical Engineering: Introduction to I-DEAS, USM, Nibong Tebal, Seberang Perai, Penang.	National	1-2 July 2003
Speaker	Series of lecture on "Fundamental of Mechanical Vibrations", Matsushita Electronic Motor(M) Sdn. Bhd, Sg Petani, Kedah.	National	20-21 November, 2002
Speaker	Lecture on Geometric Dimensioning and Tolerance, Green Precision, Sg. Petani, Kedah	National	19-20 September, 2005.
Speaker	Lecture on Geometric Dimensioning and Tolerance, Green Precision, Sg. Petani, Kedah	National	19-20 March, 2006.
Reviewer	ESTEEM Academic Journal (EAJ)	National	20/4/2016
Reviewer	Jurnal Intelek, UiTM Perlis	National	30/08/2018
Reviewer	Mechanical Engineering And Sciences Postgraduate International Conference (MESPIC) 2018	National	20/11/2018
Reviewer	FRGS, TRGS, and PRGS	National	2015-present
Reviewer	ESF, Technofund MOSTI, MESTECC	National	2012-present
Reviewer	MBOT, TTAC	National	2018-present

G4 Appointment at University/Faculty level

Date	Position	Level	Role
5/8/2015-25/8/2015	Evaluator	IRMI, UITM	Proposal for RAGS grant, UiTM, 2015
17/9/2015	Evaluator	IRMI, UITM	Proposal for PRGS Fase 2/2015
9/3/2016	Participant	IRMI, UITM	Workshop Training for Trainers(TOT) for evaluator for Research Grant: Group 2
4/8/2016	Evaluator	IRMI, UITM	Proposal for BESTARI grant 2016
8-9 Mac, 2016	Evaluator	IRMI, UITM	Workshop Training for Trainers(TOT) for evaluator for Research Grant
3/11/2017	Evaluator	IRMI, UITM	Proposal for BESTARI grant 2017
19/4/2017	Evaluator	IRMI, UITM	Proposal for LESTARI grant and GIP grant 2017
20/3/2017	Evaluator	IRMI, UITM	Grant proposal for UiTM, Penang Campus
1 Jan 2017-31 Dis 2018	Evaluator	IRMI, UITM	Proposal for research grant
20/2/2018	Evaluator	IRMI, UITM	Proposal for(PRGS) grant 1/2018
1/1/2019 - 31/12/2019	Evaluator	IRMI, UITM	Proposal for Ministry of Education(DPKPM)
18/2/2019	Evaluator	IRMI, UITM	Proposal for(PRGS) grant, 1/2019
18/6/2014	Chairman	Faculty	Defend Research Proposal(DRP) Jun 2014 1. Noor Aniza Norrdin 2. Mohd Khusairi Abdul Rahim
18/6/2014	Chairman	Faculty	Defend Research Proposal(DRP) September 2014-January 2015, 15 Okt, 2014
28/11/2014	Chairman	Faculty	Defend Research Proposal(DRP) September 2014-January 2015, 3 Dis, 2014 EM950 1. Hafizan Hashim 2. Hafizi Lukman
10/12/2014	Chairman	Faculty	Dissertation Presentation of Industrial Project II(MEM799), Program Master in Engineering Management(EM774/EM704) Session September 2014-January 2015 Norradzila Abd Mokti 2012766643
16/7/2014	Chairman	Faculty	Viva for Master candidate: EM780 Syahril Azli Abdul Rahman, 2007240698
21/4/2014	Chairman	Faculty	Viva for Master candidate EM780 Mohamad Yazman Yaakub, 2010423956
29/12/2015	Chairman	Faculty	Viva for PhD candidate EM990 Nor Fazli Adull Manan, 2011258326

27/3/2015	Chairman	Faculty	Viva for PhD candidate EM990 Zurriati Mohd Ali, 2009882474
28/9/2015	Chairman	Faculty	Viva for Master candidate EM750 Nurhidayah Rozieana Zamani, 2012313917
16/7/2014	Chairman	Faculty	Viva for Master candidate EM780 Mohd Ridhwan bin Mohammed Redza, 2009515687
2/11/2015	Chairman	Faculty	Viva for Master candidate EM780 Rahilah Kamarudzaman, 2011874728
25/3/2016	Chairman	Faculty	Viva for Master candidate EM750 Mohammad Shamil Jaffarullah, 2014279236
9/6/2016	Chairman	Faculty	Viva for Master candidate EM990 Aznifa Mahyam Zaharuddin, 2008349353
20/4/2018	Chairman	Faculty	Defend Research Proposal(DRP) session Mar-July 2018, EM750 Mohamad Hafiz bin Othman
20/4/2018	Chairman	Faculty	Defend Research Proposal(DRP) session Mar-July 2018, EM950 Mohd Razip Abdullah, 2014978977
28/12/2019	Chairman and panel	Faculty	Dissertation Presentation Part B(MEC703) Program EM703 – Master in Mechanical Engineering, Session Sept 2019- Jan 2020 Abdullah Azmin Abdullah, 2018665032
28/12/2019	Chairman and panel	Faculty	Dissertation Presentation Part B(MEC703) Program EM703 – Master in Mechanical Engineering, Session Sept 2019- Jan 2020 Nor Shafiuelytwana binti Mohd, 2018648534
28/12/2019	Chairman and panel	Faculty	Dissertation Presentation Part B(MEC703) Program EM703 – Master in Mechanical Engineering, Session Sept 2019- Jan 2020 Nurul Liyana Zainuddin, 2018609622
28/6/2019	Chairman	Faculty	Defend Research Proposal(DRP) session Mac-Julai 2019, EM950 Ahmad Hamizi bin Ahmad Kamal, 2017101341
2/5/2019	Chairman	Faculty	Viva for PhD candidate EM990 Helmi Rashid, 2012630008
24/12/2014	Second examiner	Faculty	Second Examiner for Final Year Project II, MEM602, Session Sept 14 -Jan 2015 Muhammad Hafizuddin Abdul Manas, 2011289882 Mohd Riadhul Salehin Abdul Kadir, 2011294048
20/12/2014	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM602, Session Sept 14 -Jan 2015 Syarafuddin Mohammad Yusof, 2012432302 Syazwan Azmi, 2012258668 Taufiek Yusof, 2009690684 Wan Muhammad Shafiq Wan Yusof, 20124144122 Sheikh Mohd Al'Amin bin Sheikh Mohd Radhuan, 20128813649 Sua'aida Hashim, 2012683172 Shahrul Izwan Abul Ghani, 2010239024 Mohd Ridzwan Abd Malek, 2011631682 Mohammad Khairi Mohad Yazid, 2012495806 Mohd Hafizan Harun, 2011128871

22/6/2015	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM601, Session Mac 15-Julai 2015 Kamal Izzad Kamaruddin, 2012951737 Shafiq bin Mohamed, 2012556549 Mohammad Fareed bin Aminuddin, 20122811892
7-8 July, 2015	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM602, Session Mac 15-Julai 2015 Arif Bin Mohd Rawi, 2012472556 Muhammad Azhan Muzammil Mustafa, 2012678376 Muhammad Nazrin Yahya, 2011691342 Kurnia Fitri Abdul Rahim, 2012635794
7-8, July, 2015	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM602, Session Mac 15-Julai 2015 Ahmad Rafiuddin Maskuri, 2011466014 Mohammad Fauzi Na'im Roslan, 2011819068 Nazri Mohamad Naw, 2011842288 Mohamad Azarulnaim Abdullah, 2011262546 Mohd Farhamin Ismail, 2012473586 Wan Ezatul Aishah Wan Adnan, 2012458686
18-19 July, 2016	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM602, Session Mar 16-July 2016 Amal Haziq Mohmad, 2013413056 Banie Khairie bin Mamat, 2012284246 Danial Ariff Hood, 2013692212 Iskandar Dzulkernain Md Raffee, 2013222632 Mohammad Syawal Bin Mohd Ismail, 2013619874
18/7/2016	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM602, Session Mar 16-July 2016 Afiq Ayman Mhd Pilus, 2012913331 Ahmad faiz Ahmad Sabri, 2012171069 Ahmad Hilmi Mohd Ariff, 2013661336 Muhamad Firsaud Nor Azimat, 2013849484 Azril Azraei Azim Ng, 2013853948 Haswira Aiman Hassan Merican, 2013658274
15-16 June, 2019	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM602, Session Mar 19-July 2019 Ahmad Safwan Muzammil, 20152091166 Mohamad Hafiz Nor Azman, 2014656084 Muhammad Asyraf Kamasahairudin, 2016238828 Muhammad Khairul Idlan Khaidzir Muhammad Syahiran Ch Noh, 2016238568 Muhammad Zulhilmi Muhaizi, 2016229626
15-16 June, 2019	Evaluator	Faculty	Second Examiner for Final Year Project II, MEM602, Session Mar 19-July 2019 Nurul Hawa Basirah Mohd Jamal, 2016229726 Nur Adibah Anuar Hakim, 2015283886 Mohd Lutfil Hadi Mohamed Haleza, 201623838 Mohammad Afiq Marsan, 201638312 Mohd Aqil Izzat Norazhar, 2016229536 Muhammad Amirul Hakim Mohamad, 2016229756
19/8/2014	Evaluator	Faculty	Industrial Training Student Visit, Session 2014
2/9/2015	Evaluator	Faculty	Industrial Training Student Visit, Session 2015
29/8/2016	Evaluator	Faculty	Industrial Training Student Visit, Session 2016
30/8/2017	Evaluator	Faculty	Industrial Training Student Visit, Session 2017
27/8/2018	Evaluator	Faculty	Industrial Training Student Visit, Session 2018
26/8/2019	Evaluator	Faculty	Industrial Training Student Visit, Session 2019
29/9/2019	Evaluator	Faculty	Industrial Training Student Visit, Session 2020
23/4/2021	Evaluator	University	Panel penilai dana kementerian Pengajian Tinggi (DP KPT) peringkat UiTM

27/1/2022	Evaluator	University	Panel penilai dana kementerian Pengajian Tinggi (DP KPT) peringkat UiTM
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H. COMMUNITY INVOLVEMENT(SOCIETY/UNIVERSITY/STUDENT)

H1. SERVICE TO THE UNIVERSITY

A. Administration

Date	Position	Faculty
2003-2006	Program chairman for distance learning, USM	School of Mechanical Engineering, USM, Penang
1/8/2020-31/7/2021	Head Center of Graduate Studies	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
1/8/2018-31/7/2020	Head Center of Graduate Studies	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
1/8/2016-31/7/2018	Head Center of Graduate Studies	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
1/8/2015-31/7/2016	Coordinator of Myra, Research, Publication and Consultancy	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
1/12/2014-30/11/2016	Coordinator of Research, Publication and Consultancy	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
1/1/2015-31/12/2016	Coordinator of Prisma	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
25/2/2019-31/12/2020	Resource Person(RP) of Subject: Engineering Dynamics MEC420	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
2018 -24/2/2019	Resource Person(RP) of Subject: Engineering Statics MEC412	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
2014-2020	Academic Advisor	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor
2021-2023	Resource Person(RP) of Subject: Fundamental of Biomechanics MEC791	Faculty of Mechanical Engineering, UiTM, Shah Alam, Selangor

B. University /Faculty Committee/Faculty (Named As Member)

USM

DATE	POSITION	COMMITTE
1999	Kawal Selia committee for private colleges such as Linton and ITTAR college, 1999	Chairman
1999-2001	In charge dynamics and vibration labs, 1999- 2001	Leader
1999	In charge a tour for mechanical department visit, if the outside school coming for a visit, 1999.	Leader
1999-2005	In charge I-DEAS lab, 1999 – 2005	Leader
2000	A committee member of joint research with PROTON, 2000.	Member
2002- 2003	Representative to School of Civil, 2002-2003	Member
2000- 2006	Time tabling coordinator for School of Mechanical, 2000 –2006	Coordinator
2003	Representative to IPPTN to formulate M.Sc. in Surgical Technology	Member
2005-2006	A coordinator for Distance learning program for engineering campus	Coordinator
2013	Committee member short term grant evaluation, cycle 1/2013	Member
2000-2014	An academic advisor for student	Advisor
2001-2002	A committee member of IT, 2001-present	Member
2001–2005	A committee member of CAI/CBL, 2001-present	Member
2002-2004	A Committee Member, Mentoring Program, School of Mechanical Engineering	Member
2004	Sub-committee meeting M.Sc. by coursework	Member
2004/2005	EMD 112, Design I coordinator, semester 2 2004/2005	Coordinator
2004/2005 - 2006	CAD coordinator	Coordinator
2005	Technical committee of purchasing computers and mechanical devices, Mac. 2005.	Member
2005	PPJJ coordinator for Engineering Campus	Coordinator
2005- 2006	Final Year Project Coordinator	Coordinator

2011	A committee member of Msc/Ph.D for industry	Member
2012	Mechanical & Aerospace Engineering Research Colloquium 2012 (MAERC 2012)	Member
2012-2013	Floor leader, second floor of School of Mechanical Engineering	Leader

UITM

DATE	POSITION	COMMITTEE NAME
1Mac 2016-28 Feb 2017	Member	Trust Fund Committee
1/3/2016 -28 Feb 2017	Reviewer	Research Grand for Faculty
3/1/2017-31/12/2017	Member	Course File Working Team Committee For Postgraduate
1/12/2017-31/12/2018	Member	Committee of Integrity
3/1/2017-2/1/2018	Member	Committee for Time Table
3/1/2017-2/1/2018	Member	Postgraduate Academic Board (JKAPS)
3/1/2017-2/1/2018	Member	Member of Faculty Academic Board
3/1/2017-2/1/2018	Member	Committee for Academic Mission
1/3/2017-28/2/2019	Member	Committee of Research(JPF)
3/1/2017- 2/1/2018	Member	Lecturer's Professionalism Monitoring (PRO-PENS)
3/1/2017-31/12/2017	Member	Quality Management System
3/1/2017-2/1/2018	Member	Trustee Fund Committee
1/3/2017-31/12/2017	Member	Technical Equipment
1/1/2018-31/12/2018	Member	Member of Faculty Academic Board (JAF)
1/1/2018-31/12/2018	Member	Postgraduate Academic Board (JKAPS)
1/1/2018-31/12/2018	Member	Curriculum Review(JKKF)
1/1/2018-31/12/2018	Member	MOOC, Blended Learning, ilearn and E-Course file
1/3/2018-25/2/2019	Member	Mentoring Project Management for industrial project (Master in Management)
1/1/2018-31/12/2018	Member	Lecturer's Professionalism Monitoring (PRO-PENS)
1/1/2018-31/12/2018	Member	Technical/ Equipment/ICT/E-learning
2/1/2018-31/1/2/2018	Advisor	Mechanical Post Graduate Society(MEPS)
2/1/2018-31/12/2018	Member	Time table team
2/1/2019-31/12/2019	Member	Integrity committee
2/1/2019-31/12/2019	Member	Member of Faculty Academic Board (JAF)
2/1/2019-31/12/2019	Member	Postgraduate Academic Board (JKAPS)
2/1/2019-31/12/2019	Member	Curriculum Review(JKKF)
2/1/2019-31/12/2019	Member	Management Team(JKP)
2/1/2019-31/12/2019	Member	Lecturer's Professionalism Monitoring (PRO-PENS)
27/2/2018	Mentor	FRGS Grant Clinic
2/1/2019-31/1/2/2019	Advisor	Mechanical Post Graduate Society(MEPS)
1/1/2020-31/12/2020	Member	Postgraduate Academic Board (JKAPS)
2/1/2020-31/12/2020	Member	Management Team(JKP)
2/1/2020-31/12/2020	Member	Member of Faculty Academic Board (JAF)
2/1/2020-31/12/2020	Member	Curriculum Review(JKKF)
Sept 2014-Dis 2015	Panel	Second examiner/Panel Evaluation Question Paper (Coursework) Examination Session2014/2015, FKM

Mar 2014- July 2014	Panel	Second examiner/Panel Evaluation Question Paper (Intermediate Examination), Mar-July 2014, FKM
Mar 2014- July 2014	Panel	Second examiner/Panel Evaluation Question Paper (Coursework) Examination Session March-July 2014, FKM
Mar 2015-August 2015	Panel	Second examiner/Panel Evaluator Question Paper (Intermediate Examination), 2015
Sept 2015-February 2016	Panel	Second examiner/Panel Evaluator Question Paper (Intermediate Examination), 2016/2017
18/3/2015	Panel	Evaluator Question Paper Final exam session Mar-July 2015
30/9/2015	Panel	Second examiner/Panel Evaluator Question Paper (Intermediate Examination), December 2015
4/5/2015	Panel	Progress Presentation Mechanical Design II, MEC532, Session Mar 2015- Jul 2015
Mar -August 2016	Panel	Second examiner/Panel Evaluator Question Paper (Intermediate Examination), December 2016/2017
5/2/2017-28/2/2018	Panel	Evaluator Question Paper Final exam session, 2017/2018
1/9/2019 - 29/2/2020	Panel	Evaluator Question Paper Final exam session 2019, FKM, Shah Alam
2/3/2020-31/8/2020	Panel	Evaluator Question Paper Final exam session 2020, FKM, Shah Alam
2/1/2021- 31/12/2023	Mentor	Mentor UiTM bagi program mentoring UiTM
1/10/2021- 30/9/2023	Penyelaras	Penyelaras system bank soalan(QBS)
1/9/2021- 31/8/2023	Member	Jawatankuasa Pengurusan Penilaian Akademik Kolej Pengajian Kejuruteraan, UiTM
1/4/2021- 31/3/2023	Member	Jawatankuasa Akademik Kolej Pengajian(JAKP), Kolej Pengajian Kejuruteraan, UiTM

H2. COMMUNITY SERVICES(International Level/National Level/State Level)

DATE	NAME OF ACTIVITY/PROGRAM/PROJECT	POSITION	LEVEL	CONTRIBUTION
1999	Lecture on Career prospect in Mechanical Engineering, for form 5 and form 6 students, Sek. Men Agama Sg. Besar, Selangor at Setiawan, Perak	Speaker	State	Speaker
2000	School of Mechanical Engineering, ping pong inter school	Player	University	Player
2000-2001	IEM/BEM Graduate Examination Part I together with the solutions and Marking Scheme for May 2000/2001 examination.	Leader	National	Prepare exam questions
4/2001	Represented Sports And Recreation Club, School of Mechanical Engineering, to climb Tahan mountain	Member	University	Participant
3/2/2002	Solehuddin Shuib, Lecture on How to Score 5A's, for Standard 6 students, Engineering Campus USM, 3rd February, 2002.	Speaker	State	Speaker
2002-2006	Welfare Committee, Faculty Welfare, Sports And Recreation Club, School of Mechanical Engineering, 2002 – 2006.	Member	Faculty	Welfare committee
23/6/2003	Workshop on stress management organized by the Faculty Welfare, Sports and recreation, school of mechanical engineering	Member	Faculty	Committee Member
2000-2003	Representative to Islamic Center for Ramadan Activities	Member	University	Committee Member
26/5/2004	Heath day organized by School of Mechanical Engineering	Member	Faculty	Committee Member

25-26 September, 2004	Represented School of Mechanical Engineering & Engineering Campus, Hari Warga Setaf, USM, Kubang Kerian, Kelantan	Member	University	Participant
July, 2004	Program Mahabbah Antarabangsa Sempena Maulidur rasul 1425 Hijrah Peringkat Kampus Kejuruteraan	Member	University	Committee Member
13-15 Jan., 2006	motivational program for first year BUMIPUTRA Student at Bkt Hijau, Baling, Kedah	Member	Faculty	Committee Member
2006	Represented School of Mechanical Engineering, basket ball inter school	Member	University	Player
9/11/2008	Keynote speaker and officiate convocation ceremony for tadika Tarbawi, Jalan Kebun, Klang	Speaker	District	Speaker
12/6/2012-14/6/2012	Pertandingan Robotik Kebangsaan(NRC) Zon B Pulau Pinang	Judge	State	Judge
10/7/2012-12/7/2012	Karnival Pendidikan Sains Dan Teknologi 2012	Judge	State	Judge
2014	Innovation project for Sekolah Sains Tun Syed Sheikh Syahabudin, Bukit Mertajam, Penang,	Advisor	International/National	Endosurgical grasper
29/4/2014	Seminar Hijrah Menara Gading anjuran bersama Yayasan Felcra dan Haluan Malaysia	Speaker	National	Speaker
30/6/2014	Ihya Ramadan sempena Program Ihya' Ramadan UPNM	Speaker	State	Speaker
17/8/2014	Bengkel Penulisan Artikel Ilmiah, anjuran Biro Pengajian Tinggi, Haluan, Bangi Selangor	Fasilitator	National	Writing academic article
13/2/2015	Kem Kepimpinan Mahasiswa 2(PIMPIN 2), anjuran Kolej Teknologi Darul Naim, Kelantan	Speaker	State/District	Ciri-ciri pemimpin ummah dan sharing moment
1/9/2015	Program Kembara Musafir Kasih 3, anjuran Sekretariat Haluan Siswa Luar Negara, Tapah , Perak	Speaker	National	Survival pelajaran dan pembelajaran di perantauan
30/4/2016	FKM Research Booth Camp 2016, Suria Hot Spring, Bentong, Pahang	Speaker	University	Speaker
28-29 Mar, 2016	Bengkel Engineering Materials Characterization workshop series, FKM	Speaker	University	Speaker
23/8/2016	Research Focus Group, UMP	Speaker	University	Speaker
10/4/2016	Bengkel PPRN dan MyRA, Kampus Kejuruteraan, UiTM Pasir Gudang	Speaker	University	Speaker
15/12/2018	Seminar Alim Mujahid (SAM), Anjuran Persatuan Mahasiswa Malaysia MEDIU(PERMAM), Kuala Lumpur	Speaker	Negeri/Daerah	Menjadi Mahasiswa kelas pertama
2011-2023	NGO Haluan Malaysia Pusat bagi Sesi 2021- 2023	Vice President I	National	Education and Media
1/1/2020-31/12/2022	Perlantikan anggota JK Surau dan pemeriksa kira Majlis Agama Islam Selangor	Chairman	Klang District	Surau An Najihin, No 1 Jalan Anggerik Aranda 31/16, Shah Alam, Selangor
25/3/2021	AJK pembangunan pusat Pendidikan dan Latihan Autistik, yaysan Tuanku Syed Putra	AJK	Negeri Perlis	Yayasan Tuanku Syed Putra, Perlis

I.AWARD/RECOGNITION/APPRECIATION

I.1 Group Awards/ Achievements

AWARDS/MEDAL	ORGANIZER/SPONSOR	LEVEL	YEAR
Menerima Anugerah Pingat Perak bagi teknologi bertajuk MMOC FOR MEC420 : DYNAMICS	The Virtual International e-content Development Competition 2021 (CONDOV 2021)	International	20-27 Aug. 2021

I.2 Personal Awards/ Achievement - Awards

AWARDS/MEDAL	ORGANIZER/SPONSOR	LEVEL	YEAR
Menerima Anugerah Pingat Bronze bagi teknologi bertajuk Innovative Design of Dental Implant	Research Innovation Symposium Exposition 2015(RISE2015)	International	15-16 Nov. 2015
Menerima Anugerah Pingat Bronze bagi teknologi bertajuk High Performance of Metallic Tibia Tray Component in Total Knee Replacement	Research Innovation Symposium Exposition 2015(RISE2015)	International	15-16 Nov. 2015
Menerima Anugerah Pingat Silver bagi teknologi bertajuk A Reusable endosurgical Grasper using compliant mechanism	Invention Innovation & Design Exposition 2015 (iindex 2016) UiTM, Shah Alam, Selangor	University	20-23 September, 2016
Menerima Anugerah Pingat Gold bagi teknologi bertajuk Porous NiTi Dental Screw Implant by innovative powder Metallurgy Route	28th International Invention, Innovation & Technology Exhibition (ITEX) anjuran MINDS and MOSTI, Kuala Lumpur, Malaysia	International	11-13 May, 2017
Menerima Anugerah Pingat Emas bagi teknologi bertajuk GOLD	IENA	International	2017
Menerima Anugerah Pingat Gold bagi teknologi bertajuk Porous NiTi Dental Implant via Innovative Route of Metal Injection Moulding(MIM)	Ekspo Penyelidikan dan Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA 2017)	International	7-9 October, 2017
Menerima Anugerah Pingat Silver bagi teknologi bertajuk Micro-bearing concept for solid lubrication of ultra high molecular wight polyethylene/epoxy composites intended for acetabular cup for hip prosthesis	Invention Innovation & Design Exposition 2015 (iindex 2018) UiTM, Shah Alam, Selangor	University	24-28 September, 2018
Menerima Anugerah Pingat Gold bagi teknologi bertajuk Hybrid Stem design for total hip replacement(THR)	Invention Innovation & Design Exposition 2015 (iindex 2018) UiTM, Shah Alam, Selangor	University	24-28 September, 2018
Menerima Anugerah Pingat Bronze bagi teknologi bertajuk Wing Shape for Flapping Wing Micro Air Vehicles derived from Natural Bat Wings	Invention Innovation & Design Exposition 2015 (iindex 2018) UiTM, Shah Alam, Selangor	University	2018
Menerima Anugerah Pingat Silver bagi teknologi bertajuk Bat Inspired Flapping Wings for MAVs	Invention Innovation & Design Exposition 2015 (iindex 2019) UiTM, Shah Alam, Selangor	University	2019
Menerima Anugerah Special Award bagi teknologi bertajuk: Robust Stretcher	47th International Exhibition on Inventions Geneva	International	10-14 April, 2019
Menerima Anugerah Pingat Emas bagi teknologi bertajuk Prototype of New Composite Weightage and Offset Thickness Design of Acetabular Cup in THR	Internatioanal Jasin Multimedia & Computer Science Invention, Innovation & Exhibition 2020	International	2020

Academic Award/Achievement

TARIKH	NAMA ANUGERAH/ HADIAH	INSTITUSI PENGANUGERAHAN	JUMLAH GERAN/ BIASISWA	PERINGKAT
1/7/2014- 30/6/2016	Pelantikan Ahli Kumpulan Inisiatif Penyelidikan (RIG)- Maxillofacial Implants, Entiti Kecemerlangan Tier 5 UiTM	Universiti Teknologi MARA		University
1/1/2014- 31/1/2016	Pelantikan Felo Bersekutu, Institute of Science(IOS), UiTM	Universiti Teknologi MARA		University
1/12/2014- 30/11/2016	Anugerah Penyelidik Berjaya: Tajuk Fundamental Studies Of Natural Rubber Latex Films For Bio-Inspired Micro Air Vehicle(Penyelia Bersama)	Kementerian Pengajian Tinggi(KPT)	FRGS(KPT), RM79,200.00	National
1/12/104- 30/05/2017	Anugerah Penyelidik Berjaya: Tajuk Biomechanical Characterisation Of Cranio-Maxillofacial Resorption Model(Penyelia Utama)	Kementerian Pengajian Tinggi(KPT)	FRGS(KPT), RM79,200.00	National
1/5/2015- 30/10/2018	Anugerah Penyelidik Berjaya: Tajuk Maxillofacial Implants Research Group(Penyelia Bersama)	Universiti Teknologi Mara	REI (UiTM),RM32,000	University
26-27 Aug. 2015	Best Paper Award(Zainal Abidin Arsat, A Halim Kadarman, Amran Ahmed Shokri, Mohd Ezane Aziz, and Solehuddin Shuib): Magnetic Resonance Imaging Sequences Analysis Of Tibiofemoral Contact Area Assisted By MATLAB Software	2015 International Conference on Advances in Mechanical Engineering (ICAME 2015)		International
26-27 Aug. 2015	Best Paper Award(Maya Genisa, Zainul Ahmad Rajion, Solehuddin Shuib, Abdullah Pohchi and Dasmawati Mohamad): Behavior of Implant Stability during Implant Treatment: in Vivo Study	2015 International Conference on Advances in Mechanical Engineering (ICAME 2015)		International
2015	Anugerah Perkhidmatan Cemerlang	Universiti Teknologi Mara		University
Sesi Mac-Julai 2015	Sijil penghargaan pencapaian cemerlang pengajaran dan pembelajaran bagi penilaian Pro-Pens, Fakulti	Universiti Teknologi Mara		University
1/12/2015- 31/11/2017	Anugerah Penyelidik Berjaya: Identification Of Low Diffuse Reflective Marker For Motion Capture Application In Teaching And Learning Environment (Penyelia Bersama)	Universiti Teknologi Mara	ARAS,(UiTM), RM20,000	University
1/9/2016- 31/8/2018	Anugerah Penyelidik Berjaya: Fundamental Study Of Composite Hip Implant To Improve Fatigue Life And Impact Resistance (Penyelia Utama)	Universiti Teknologi Mara	BESTARI(UiTM), RM35,000.00	University

1/12/2016-31/1/2019	Pelantikan Felo Bersekutu, Institute of Science(IOS), UiTM	Universiti Teknologi MARA		University
18/1/2016	Perlantikan menjadi Ahli penyelidik bersama di bawah Center of polymer Composites research and Technology(PoCResT), IOS, UiTM Shah Alam	Universiti Teknologi MARA		University
15/8/2017-14/8/2019	Anugerah Penyelidik Berjaya: Prototyping Of Porous NiTi Alloy Dental Screw And Abutment By Metal Injection Moulding (MIM) (Penyelia Bersama)	Kementerian Pengajian Tinggi(KPT)	PRGS(KPT), RM198,500.00	National
30/6/2017-30/6/2018	Anugerah Penyelidik Berjaya: Finite Element Modeling Of Uncemented Hip Stem Primary Fixation: The Effect Of Bone Visco-Elastic Properties To The Interference Fit. (Penyelia Utama)	Universiti Teknologi MARA	GIP(UiTM), RM25,000.00	University
1/10/2017-30/3/2020	Anugerah Penyelidik Berjaya: Finite Element Modeling Of Uncemented Hip Stem Primary Fixation: The Effect Of Bone Visco-Elastic Properties To The Interference Fit. (Penyelia Utama)	Universiti Teknologi MARA	GIP(UiTM), RM25,000.00	University
1/10/2017-30/3/2020	Anugerah Penyelidik Berjaya: Establishment Of A Newly Designed Cemented Hip Prosthesis (Hp) To Improve Implant Life (Penyelia Utama)	Universiti Teknologi MARA	MITRA PERDANA(UiTM), RM100,000.00	University
1/1/2018-1/7/2020	Anugerah Penyelidik Berjaya: A Gravitational Search Algorithm Based Active Force Controller For A Rehabilitative Lowerlimb Exoskeleton (Penyelia Bersama)	Universiti Teknologi MARA	BESTARI PERDANA(UiTM), RM35,000.00	University
1/1/2019-31/12/2020	Anugerah Penyelidik Berjaya: Friction Reduction And Tribological Behavior Of The New Polymer Micro-Bearing Solid Polymer Lubricant In Relation To The Epoxy Viscosity (Penyelia Bersama)	Kementerian Pengajian Tinggi(KPT)	FRGS(KPT), RM78,200.00	National
1/7/2019-30/6/2021	Anugerah Penyelidik Berjaya: PHYSICO-MECHANICO AND THERMAL PROPERTIES OF THE KENAF-COATED TREATMENT METHOD FOR THERMOSETS POLYMER COMPOSITE SYSTEM (Penyelia Bersama)	Universiti Teknologi MARA	LESTARI(UiTM), RM30,000.00	University
1/9/2019-31/8/2021	Anugerah Penyelidik Berjaya: Multi-Level Analysis Of Radiation Effects On Bone Morphology And Mechanical Properties In A Murine Model. (Penyelia Bersama)	Kementerian Pengajian Tinggi(KPT)	FRGS-RACER(KPT), RM51,200.00	National
1/9/2019-31/8/2021	Anugerah Penyelidik Berjaya: Multi-Level Analysis Of Radiation Effects On Bone Morphology And Mechanical Properties In A Murine Model. (Penyelia Bersama)	Kementerian Pengajian Tinggi(KPT)	FRGS-RACER(KPT), RM51,200.00	National

1/4/2019-31/3/2020	Anugerah Penyelidik Berjaya: Characterization Of Bio - Inspired Flapping Wint With Compliant Morphing Mechanisms Based On Bat Wing (Penyelia Utama)	Universiti Teknologi MARA	GIP(UiTM), RM25,000.00	University
1/1/2019-31/12/2020	Anugerah Penyelidik Berjaya: Prototyping Of Customized High Flexion Femoral Component For Total Knee Arthroplasty (Penyelia Utama)	Kementrian Pengajian Tinggi(KPT)	PRGS(KPT), RM138,000.00	National
1/3/2019-29/2/2020	Anugerah Penyelidik Berjaya: Wheel Chair Modification And Innovation Project(Penyelia Bersama)	Geran Penyelidikan Translasiional MRUN(USM-MTUN/MCUN) BIL 2/2018	MRUN, RM70,000.00	National
1/1/22019-10/12/2020	Anugerah Penyelidik Berjaya: Manufacturing and Testing of a Sub-scale Solid Rocket Motor(Penyelia Bersama)	ELMOHANDIS ALMOTKHHASIS FOR CHEMICAL INDUSTRY CO, LTD, SUDAN	Geran Industri Antara bangsa, € 2,200	International
25/10/2020-24/10/2020	Anugerah Penyelidik Berjaya: Development of ultra helicopter(Penyelia Bersama)	Optimaxs Integrated Solution, Kharoum, Sudan	Geran Industri Antara bangsa, USD2,400	International

Sanjungan akademik

TARIKH	NAMA ANUGERAH/ HADIAH	INSTITUSI PENGANUGERAHAN	JUMLAH GERAN/ BIASISWA	PERINGKAT
14/7/2014	Ucapan Penghargaan – Pengerusi Sesi Viva Pelajar Sarjana Syahril Azli Bin Abdul Rahman	Universiti Teknologi MARA	-	University
28/10/2014-6/11/2014	Sijil Penghargaan: AJK dalam perbentangan akhir AKNC 2014	Fakulti Kejuruteraan Mekanikal		Faculty
24/2/2015	Certificate of Participation: Introduction to CAE and Analysis using Catia V5	Fakulti Kejuruteraan Mekanikal		Faculty
26 - 27 Aug 2015	Certificate: Invited Speaker	2015 International Conference on Advance in Mechanical Engineering (ICAME 2015), Universiti Teknologi MARA	-	International
26 - 27 Aug 2015	Certificate: Reviewer	2015 International Conference on Advance in Mechanical Engineering (ICAME 2015), Universiti Teknologi MARA	-	International
1/9/2015	Ucapan Penghargaan dan Terima Kasih: Panel Penilai Kertas Cadangan Dana Kebudayaan Penyelidikan(RAGS) 2015	Universiti Teknologi Mara		University
31/5/2015-2/6/2015	Sijil Penghargaan: Peserta bengkel perancangan strategik, Cerangin Hills Convention & SPA Resort, Janda Baik, Pahang	Fakulti Kejuruteraan Mekanikal		Faculty
9/10/2015	Sijil penghargaan: Ahli Majlis amanat Dekan Oktober 2015	Fakulti Kejuruteraan Mekanikal		Faculty
2015	Certificate: Author in High Impact publication Trends in Biomater. Artif. Organs	Fakulti Kejuruteraan Mekanikal		Faculty
2015	Sijil Perhargaan: Koordinator merangkap pengerusi jawatankuasa MyRA Fakulti, diatas pencapaian skor MyRa 2015 3 bintang	Fakulti Kejuruteraan Mekanikal		Faculty
31/3/2016	Certificate of Appreciation -Talent Accelerated Leadersip Excellent Series (Tales)	Universiti Teknologi MARA	-	University
1-3 Jun, 2016	Sijil Penyertaan: Sumbangan dan kerjasama dalam MeTPI- 2016, Port Dickson, Negeri Sembilan	Universiti Teknologi MARA, FKM		University
4/8/2016	Ucapan penghargaan dan terima kasih: Koordinator Myra, Research, Publication and Consultancy	Fakulti Kejuruteraan Mekanikal		Faculty
9/12/2016	Certificate of Appreciation: Talk bertajuk CAD & FE Modeling in Biomedical Engineering in the IOS Colloquium Series (19/26), IOS Seminar Room, UiTM Shah Alam, Selangor	Institute of Science(IOS), UiTM		University
21-22 November, 2016	Certificate of participation: Academic Governance and leadership, Higher Education Ledership Academy(AKEPT), MOHE, Malaysia	Higher Education Ledership Academy(AKEPT), MOHE, Malaysia		National
2016	Sijil Penghargaan - Ketua Kumpulan 7: Hasil, Dokumen AKNC	DATC, Universiti Teknologi MARA, Shah Alam	-	University
13/2/2017	Ucapan perhargaan dan terima kasih: Pembentang dalam Pameran Penyelidikan Research Summit Day(RSD 2017)	Universiti Teknologi MARA, FKM		University
12/11/2017	Certificate of attendance: Workshop of Engineering Education Innovation for Industry 4.0	Universiti Teknologi Malaysia, Kuala Lumpur		National
20/3/2017	Ucapan Penghargaan dan Terima Kasih: Panel Penilai Kertas Cadangan Skim Geran Penyelidikan Fundamental (FRGS) peringkat universiti Cawangan Pulau Pinang	UiTM, Cawangan Pulau Pinang		University

28/4/2017	Ucapan Penghargaan dan Terima Kasih sebagai Panel Penilai: Kertas Cadangan Skim Geran Penyelidikan LESTARI 2017 dan Geran Inisiatif Penyelidikan (GIP) 2017 peringkat UiTM	Universiti Teknologi Mara		University
16 - 18 Aug 2017	Certificate - Presenter " The Design of reusable endosurgical Grasper using Compliant Mechanism"	2017 International Conference on Advance in Mechanical Engineering (ICAME 2017), Universiti Teknologi MARA	-	International
7/6/2017	Certificate of Participation: Training of Trainer workshop for UiTM Thesis Template.dotx	Institute of graduate Studies, UiTM, Shah Alam, Selangor		University
14/2/2018	Sijil penghargaan: Sesi perkongsian oleh ketua projek geran TRGS yang berjaya dan Pemurnian Deraf permohonan Penyelidik	IRMI, Universiti Teknologi Mara		University
20/2/2018	Ucapan Penghargaan dan Terima Kasih: Panel Penilai Kertas Cadangan Skim Geran Penyelidikan Prototaip(PRGS) 1/2018	Universiti Teknologi Mara		University
10/3/2018	Certificate of participation: Permata STEM Mentoring Workshop	Permata STEM Mentoring Workshop, Pusat Permatapintar Negara, UKM, Selangor		National
5-6- May, 2018	Certificate of appreciation: Technical Reviewer	2nd International Conference Business, Tourism, and Technology (2nd ICBB, 2018), Melaka, Malaysia		International
27/9/2018	Sijil Penghargaan: sebagai Panel Hakim IIDEX 2018.	Timbalan Naib Canselor (P&I),UiTM		University
25-27 October, 2018	Sijil Penghargaan: Sumbangan dan kerjasama menjayakan Mesyuarat IPSis bersama KPPS/Koordinator (MIKePPS) ke 22, Port Dickson, Negeri Sembilan	Institute of graduate Studies, UiTM, Shah Alam, Selangor		University
29-30 Oct, 2018	Certificate of participation: Conflict Management & managing high performance team	Universiti Teknologi MARA, FKM		University
22 - 23 Nov 2018	Certificate of Participation: Impact Leadership: Moving from Good to Great	Universiti Teknologi MARA	-	University
4/6/2018	Letter of appreciation: ASM Associate	Academy of Sciences Malaysia(ASM)		National
17-19 Dec. 2018	Certificate of Appreciation: Strategic planning Workshop	Faculty of Mechanical Engineering, Universiti Teknologi MARA		Faculty
4/9/2018	Certificate - Presenter " Design and Analysis of High Flexion Femoral Component for TKA"	Seminar of Frontier Materials and Industrial Applications 2018(SFMIA2018), Seminar Hall IBE, UiTM	-	National
1/2/2019	Ucapan penghargaan dan terima kasih: Resource person(RP) MEC412 Engineering Statics	Faculty of Mechanical Engineering, Universiti Teknologi MARA		Faculty
2/5/2019	Surat Ucapan Penghargaan dan Terima Kasih: Pengerusi Viva-voce	Universiti Teknologi MARA, FKM	-	University
25/2/2019	Ucapan Penghargaan dan Terima Kasih: Panel Penilai Kertas Cadangan Skim Geran Penyelidikan Prototaip(PRGS) 1/2019	Universiti Teknologi Mara		University

29/8/2019	Award certificate: Biomechanical & Clinical Research Engineering(BIOMECE) Research Group, for 5 Star, EK Tier 5 performance score 2018	Symposium on Frontier Materials and Industrial Applications 2019(SFMIA2019), Grand BlueWave Hotel, Shah Alam, Selangor		National
29/8/2019	Certificate - Presenter " Determination of joint load of human lowr limb using 2D Inverse Dynamics modeling"	Symposium on Frontier Materials and Industrial Applications 2019(SFMIA2019), Grand BlueWave Hotel, Shah Alam, Selangor		National
27-29 Sept. 2019	Certificate - Presenter " The Effectiveness of seat belts during car crash: Preliminary analysis of car occupant seatbealt and inury level during crash event"	1st Research Colloquium 2019(RC2019), DRB-Hicom University of Automotive Malaysia, Pekan, Pahang		National
24-25 October, 2019	Certificate of Appreciation: Conference Keynote speaker	5th International Exchange and Innovation Conference on Engineering & Sciences (IEICES 2019), Kyushu University, Fukuoka, Japan		International
4/11/2019-8/11/2019	Certificate of attendance: Technology and Innovation Support Center(TISC) Patent Drafting Workshop	MyIPO, Intellectual Property Corporation of Malaysia, Kuala Lumpur		National
6/2/2020	Thank you: QS Glocal Academic Survey 2020	Qs World University Ranking		International
11/3/2020	Sijil penghargaan: Anugerah Geran penyelidikan Produktif	Majlis Apresiasi FKM tahun 2020, Dewan Seri Impian, Hotel UiTM, Shah Alam, Selangor		University
11/3/2020	Sijil penghargaan: Anugerah Penerbitan Berimpak Tinggi 2018	Majlis Apresiasi FKM tahun 2020, Dewan Seri Impian, Hotel UiTM, Shah Alam, Selangor		University
19/3/2020	Thank you: Reviewing papers for Springer Nature	Springer Nature		International
13/12/2018	Surat Ucapan Penghargaan dan Terima Kasih: Panel Penilai, Pembentangan Projek Tahun Akhir Sesi Mac 2018 - Jun 2018, FYP I dijalankan pada 6/6/2018 dan FYP II pada 9-10 Jun, 2018	Universiti Teknologi MARA, FKM	-	University
11/6/2018	Surat Ucapan Penghargaan dan Terima Kasih: Panel Penilai, Pembentangan Projek Tahun Akhir Sesi Sep 2018 - Jan 2019, FYP dijalankan pada 8-9/12/2018 dan FYP II pada 12 Dis, 2018	Universiti Teknologi MARA, FKM	-	University
17/6/2019	Surat Ucapan Penghargaan dan Terima Kasih: Panel Penilai, Pembentangan Projek Tahun Akhir Sesi Mac 2018 - Jun 2018, FYP I dijalankan pada 12/6/2019 dan FYP II pada 15-16 Jun, 2019	Universiti Teknologi MARA, FKM	-	University
26/2/2021	Ucapan tahniah dan penghargaan bagi warga FKM atas pencapaian 6 bintang UITM2025 pencapaian prestasi universiti tahun 2020	Universiti Teknologi MARA, FKM		University
2020	Anugerah cemerlang: pasukan npenyelidikan cemerlang, BIOMECE	Universiti Teknologi MARA, FKM		University
2019	Anugerah 5-STAR EK Rating year 2019, BIOMECE	Universiti Teknologi MARA, FKM		University

REFERENCES

Prof. Sr. Ir. Dr. Haji Suhaimi Abdul Talib

Assistant Vice Chancellor, College of Engineering
Universiti Teknologi MARA,
40450 Shah Alam, Selangor, MALAYSIA
Tel.: +603 5543 5161
E-mail: ecsuhaimi@uitm.edu.my

Professor Ir. Dr. Hj. Muhammad Azmi bin Ayub,

School of Mechanical Engineering, College of Engineering
Universiti Teknologi MARA,
40450 Shah Alam, Selangor, MALAYSIA
Tel.: +603 5543 5161
E-mail: muhammadayub@uitm.edu.my