

PERSONAL INFORMATION



**Name: Assoc. Prof. Ir. Dr. Mohd Shukry Abdul Majid**

**P.Eng, C.Eng, MIMechE, MIEM**

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**First appointment at UNIMAP: 11<sup>th</sup> Nov 2005**

**Appointment to current Grade: 1<sup>st</sup> Sept 2016**

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**Expertise:** Composite materials, Natural fibre composites, Composite piping, polymer composites, performance predictions of composites, NDT of composites, destructive and non-destructive damage detections, biodegradable composites, biomaterials, Outcome based Education (OBE).

**1. ACADEMIC QUALIFICATIONS**

- 2008-2011** Doctor of Philosophy (Ph.D.) in Mechanical Engineering, School of Mechanical and Systems Engineering, Newcastle University, United Kingdom  
Thesis title: **“Behaviour of composite pipes under multi-axial stress”**
- 2004-2005** Master of Science (M.Sc.) in Mechanical and Systems Engineering (Distinction) Dept. of Mechanical Engineering, University of Liverpool, United Kingdom  
Thesis title: **“Projectile ricochet of wood”**
- 1998-2001** Bachelor of Science BSc. (Hons) in Mechanical Engineering, Second class upper (2:1), School of Mechanical Engineering, University Manchester Institute Science and Technology (UMIST), Manchester, United Kingdom.

**2. PROFESSIONAL MEMBERSHIP**

- 1. **Professional Engineer, Board of Engineer Malaysia (BEM), 17193 (Mechanical)**
- 2. **Chartered Engineer from Engineering Council UK (611716)**
- 3. Member of the Institution of Mechanical Engineers, (MIMechE; 80185542)
- 4. Corporate Member of Institute of Engineer Malaysia since 2015 (MIEM; 27528)

**3. ADMINISTRATIVE POSTS**

- 1. Manager for Quality and Accreditation Unit (UniKA), Universiti Malaysia Perlis (1<sup>st</sup> Apr 2015 – 28<sup>th</sup> Feb 2017)
- 2. Chairperson for Diploma of Mechatronic Engineering Programme (1<sup>st</sup> Apr 2006 – Feb 2007 and Mac 2007- May 2008)
- 3. Management committee of School of Mechatronic Engineering (31<sup>st</sup> Jul 2006 – May 2008)
- 4. Academic committee of School of Mechatronic Engineering (1 Jul 2006 – May 2008)
- 5. Development and students relation committee of School of Mechatronic Engineering (1 Jul 2006 – May 2008)

**4. PUBLICATIONS**

No. of Papers, H-Index, Field-Weighted Citation Impact and Citations

	No. of papers	H-index	Field-Weighted Citation Impact	No. of citations
Scopus indexed	155	14	1.19	544
Google scholar	196	15	-	727

ISI Journal Papers and Cumulative Impact Factor (CIF)

Q1	Q2	Q3	Q4	Total	Category Normalized Citation Impact	Cumulative Impact Factor (CIF)
28	2	4	5	39 (28*)	1.05	123.679

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**Book/Chapter**

1. M.J.M. Ridzuan, **M.S. Abdul Majid** and K. Azduwin, Natural lightweight hybrid composites for aircraft structural applications, Woodhead Publishing Series in Composites Science and Engineering, pp 180-196, **2018**, 10.1016/B978-0-08-102131-6.00008-6
2. Trends and Applications in Mechanical Engineering. Trans Tech Pub Inc. 2015. ISBN-13: 978-3-03835-549-6. Editor: G.A. Quadir, K.S. Basaruddin, H. Idrus, **M.S. Abdul Majid**, M. Afendi, S.F. Khan and N.A.M. Amin.

**ISI Ranked Journal publications (CIF: 123,679)**

1. Ernie I. Basri, Mohamed T. H. Sultan\*, Faizal M., Adi A. Basri, Mohd. F. Abas, **M.S. Abdul Majid**, J.S. Mandeep, Kamarul A. Ahmad, Performance analysis of composite ply orientation in aeronautical application of Unmanned Aerial Vehicle (UAV) NACA4415 wing, Journal of Materials Research and Technology **2019**, (Q1, IF: 3.327) – **Accepted**
2. Naveen Raj Visvanathan, **Mohd Shukry Abdul Majid\***, Faisal Abrar Syamsul Bahri, Mohd Ridzuan Mohd Jamir and Mohd Afendi Rojan, Residual strength of fire-exposed glass-reinforced epoxy composite pipes, Materialpruefung/Materials Testing, 2019. (Q4, IF: 0.573) – **Accepted**
3. M.J.M. Ridzuan, **M.S. Abdul Majid**, E.H.D. Gan, A. Khasri, Z.M. Razlan, S. Syahrullail, Effect of Pineapple leaf (PALF), Napier, and Hemp fibres as filler on the scratch resistance of epoxy composites, Journal of Materials Research and Technology **2019**, (Q1, IF: 3.327) – **Accepted**
4. Nurul Fazreena Othman, Khairul Salleh Basaruddin\*, Mohd Hanafi Mat Som, **Mohd Shukry Abdul Majid**, Abdul Razak Sulaiman, The effect of leg length inequality on joint contact forces of lower limbs during walking, Acta of Bioengineering and Biomechanics, Vol. 21, No. 1, 2019. (Q4, IF: 1.112)
5. J. Naveen, M. Jawaid, E.S. Zainudin, Mohamed T. H. Sultan, R. Yahaya, **M.S. Abdul Majid**, Thermal degradation and viscoelastic properties of Kevlar/Cocos nucifera sheath reinforced epoxy hybrid composites, Volume 219, 1 July **2019**, Pages 194-202, 10.1016/j.compstruct.2019.03.079 (Q1, IF: 4.829)
6. M. Mariam, M. Afendi, **M.S. Abdul Majid\***, M.J.M. Ridzuan, M.T.H. Sultan, M. Jawaid, A.G. Gibson, Hydrothermal ageing effect on the mechanical behaviour and fatigue response of aluminium alloy/glass/epoxy hybrid composite single lap joints, Volume 219, 1 July **2019**, Pages 69-82, 2019, 10.1016/j.compstruct.2019.03.078 (Q1, IF: 4.829)
7. A.M.R. Azmi, M.T.H. Sultana, M. Jawaid, A.U.M. Shah, A.F.M. Nor, **M.S.A. Majid**, S. Muhamad, A.R.A. Talib, Impact Properties of Kenaf Fiber/X-ray Films Hybrid Composites for Structural Applications, j mater res technol. **2019**; 8(2):1982–1990, 10.1016/j.jmrt.2018.12.016 (2019) (Q1, IF: 3.327)
8. M. Mariam, M. Afendi\*, **M.S. Abdul Majid\*\***, M.J.M. Ridzuan, A.I. Azmi, M.T.H. Sultan, Influence of hydrothermal ageing on the mechanical properties of an adhesively bonded joint with different adherends, Composites Part B: Engineering, 10.1016/j.compositesb.2019.02.032 (2019) (Q1, IF: 6.864)
9. Aiman Akmal Abdul Nasir, Azwan Iskandar Azmi\*, Tan Chye Lih, **M.S. Abdul Majid**, Critical Thrust Force and Critical Feed Rate in Drilling Flax Fibre Composites: A Comparative Study of Various Thrust Force Models, Composites Part B: Engineering, Volume 165, 15 May 2019, Pages 222-232 (2019) (Q1, IF: 6.864)
10. M.J.M. Ridzuan\*, **M.S. Abdul Majid**, A. Khasri, K.S. Basaruddin, A.G. Gibson, Effect of moisture exposure and elevated temperatures on impact response of Pennisetum purpureum/glass-reinforced epoxy (PGRE) hybrid composites, Composites Part B 160 (2019) 84–93 (Q1, IF: 6.864)
11. E.M. Cheng, Z. Abbas, Mohamedfareq Abdulmalek, K.Y. You, K.Y. Lee, N.F. Mohd Nasir, **M.S. Abdul Majid**, S.F. Khor, Effect of Aspect Ratio and Frequency of an Open-Ended, Coaxial Line on Admittance for Determination of Moisture in Tenera Oil Palm Fruit Using Finite Difference Method, Applied Computational Electromagnetics Society Journal, Volume 33, Issue 11, November 2018, Pages 1308-1318 (2018) (Q4, IF: 0.584)
12. S. Aziz, N.A.M. Amin, **M.S.A. Majid**, F. Bruno and M. Belusko, Effectiveness-NTU correlation for a TES tank comprises a PCM encapsulated in sphere with heat transfer enhancement, Applied Thermal Engineering, Volume 143, October **2018**, Pages 1003-1010, (Q1, IF: 4.026)
13. S. Aziz, N.A.M. Amin, **M.S.A. Majid**, M. Belusko and F. Bruno, CFD simulation and experimental validation of a LHTES with thermal conductivity enhancement, Applied Thermal Engineering, Volume 143, October **2018**, Pages 1085-1092 (Q1, IF: 4.026)
14. J.Y. Ang, **M.S. Abdul Majid\***, A. Mohd Nor, S. Yaacob, M.J.M. Ridzuan, First-ply failure prediction of glass/epoxy composite pipes using an artificial neural network model, Composite Structures 200 (2018) 579–588, 10.1016/j.compstruct.2018.05.139 (Q1, IF: 4.829)
15. M. Mariam, M. Afendi, **M.S. Abdul Majid\***, M.J.M. Ridzuan, A.G. Gibson, Tensile and fatigue properties of single lap joints of aluminium alloy/glass fibre reinforced composites fabricated with different joining methods, Composite Structures 200 (2018) 647–658. 10.1016/j.compstruct.2018.06.003 (Q1, IF: 4.829)
16. M.A.A. Ahmad, **M.S. Abdul Majid\***, M.J.M. Ridzuan, M.N. Mazlee A.G. Gibson, Dynamic mechanical analysis and effects of moisture on mechanical properties of interwoven hemp/polyethylene terephthalate (PET) hybrid composites, Construction and Building Materials, Volume 179, 10 August **2018**, Pages 265–276. (Q1, IF: 4.046)
17. M.J.M. Ridzuan, **M.S. Abdul Majid\***, S.M. Hafis, K. Azduwin, The effects of alkali treatment on the mechanical and morphological properties of *Pennisetum purpureum*/glass-reinforced epoxy hybrid composites, Plast. Rubber Compos., Volume 46, Issue 10, 26 November **2017**, Pages 421-430. (Q3, IF: 0.848)
18. Revati R., **M.S. Abdul Majid\***, Ridzuan M.J.M.; K.S. Basaruddin, M.N. Rahman Y., Cheng E.M., A.G. Gibson, In vitro degradation of a 3D porous *Pennisetum purpureum*/PLA biocomposite scaffold, Journal of the Mechanical Behavior of Biomedical Materials, Volume 74, October **2017**, Pages 383-391 (Q1, IF: 3.239)
19. Revati R., **M.S. Abdul Majid\***, Ridzuan M.J.M., Normahira M., N.F. Mohd Nasir, M.N. Rahman Y., A.G. Gibson, Mechanical, thermal and morphological characterization of 3D porous *Pennisetum purpureum*/PLA biocomposites scaffold, Materials Science and Engineering: C, 75 (2017) 752–759 (Q1, IF: 5.080)
20. Maslinda A.B., **M.S. Abdul Majid\***, Ridzuan M.J.M, M. Afendi, A.G. Gibson, Effect of water absorption on the mechanical properties of hybrid interwoven cellulosic-cellulosic fibre reinforced epoxy composites, Compos. Struct. vol. 167 February **2017**, pp. 227 - 237. (Q1, IF: 4.101)

21. S.N. Fitriah, **M.S. Abdul Majid\***, M.J.M. Ridzuan, R. Daud, A.G. Gibson, T.A. Assaleh, Influence of hydrothermal ageing on the compressive behaviour of glass fibre/epoxy composite pipes, *Compos. Struct.*, vol. 159 January 2017, pp. 350–360. (Q1, IF: 4.101)
22. Pranesh Krishnan, **M.S. Abdul Majid\***, Ang Jia Yi, M. Afendi, S. Yaacob, A.G. Gibson, An Automated Portable Multiaxial Pressure Test Rig for Qualifications of Glass/Epoxy Composite Pipes, *Science and Engineering of Composite Materials*. 20160036, DOI: <https://doi.org/10.1515/secm-2016-0036>, August 2016. (Q4, IF: 0.480)
23. M.J.M. Ridzuan, **M.S. Abdul Majid\***, M. Afendi, M.N. Mazlee, A.G. Gibson, Thermal behaviour and dynamic mechanical analysis of Pennisetum purpureum/glass-reinforced epoxy hybrid composites, *Composite Structures* 152 (2016) 850–859, 2016 (Q1, IF: 3.858)
24. Pranesh Krishnan, **M.S. Abdul Majid\***, M. Afendi, S. Yaacob, A.G. Gibson, “Effects of hydrothermal ageing on the behaviour of composite tubes under multiaxial stress ratios”, *Compos. Struct.* vol. 148, pp. 1–11, July 2016. (Q1, IF: 3.858)
25. Hawa Ahmad, **Mohd. Shukry Abdul Majid\***, Mohd. Afendi Rojan, Fauziah Mat, Yakubu Dan-Mallam, Hydrothermal effects on the burst strength of impacted glass fibre/epoxy composite pipes. *Materialpruefung/Materials Testing*, 58, pp. 333–336, April 2016. (Q4, IF: 0.418)
26. M.S. Fartini, **M.S. Abdul Majid\***, M.J.M. Ridzuan · N.A.M. Amin, Geoff Gibson, Compressive properties of Napier (Pennisetum Purpureum) filled polyester composites. *Plastics, Rubber and Composites: Macromolecular Engineering, Plast. Rubber Compos.*, vol. 45, no. 3, pp. 136–146, April. 2016. (Q3, IF: 0.66)
27. A. Hawa, **M.S. Abdul Majid\***, M. Afendi, H.F.A. Marzuki, N.A.M. Amin, F. Mat, and A.G. Gibson, “Burst strength and impact behaviour of hydrothermally aged glass fibre/epoxy composite pipes,” *Mater. Des.*, vol. 89, pp. 455–464, Jan. 2016. (Q1, IF: 4.364)
28. M.J.M. Ridzuan, **M.S. Abdul Majid\***, M. Afendi, S.N. Aqmariah Kanafiah, J.M. Zahri, and A.G. Gibson, “Characterisation of natural cellulosic fibre from Pennisetum purpureum stem as potential reinforcement of polymer composites,” *Mater. Des.*, vol. 89, pp. 839–847, Jan. 2016. (Q1, IF: 4.364)
29. M. Haameem J.A., **M.S. Abdul Majid\***, M. Afendi, H.F.A. Marzuki, I. Fahmi, and A.G. Gibson, “Mechanical properties of Napier grass fibre/polyester composites,” *Compos. Struct.*, vol. 136, pp. 1–10, Feb. 2016. (Q1, IF: 3.858)
30. M.J.M. Ridzuan, **M.S. Abdul Majid\***, M. Afendi, K. Azduwin, N.A.M. Amin, J.M. Zahri, and A.G. Gibson, “Moisture absorption and mechanical degradation of hybrid Pennisetum purpureum/glass–epoxy composites,” *Compos. Struct.*, vol. 141, pp. 110–116, May 2016. (Q1, IF: 3.858)
31. N.I.E. Farhana, **M.S. Abdul Majid\***, M.P. Paulraj, E. Ahmadhlimi, M.N. Fakhzan, and A.G. Gibson, “A novel vibration based non-destructive testing for predicting glass fibre/matrix volume fraction in composites using a neural network model,” *Compos. Struct.*, vol. 144, pp. 96–107, Jun. 2016. (Q1, IF: 3.858)
32. M. Haameem J.A., **M.S. Abdul Majid\***, M. Afendi, H.F.A. Marzuki, E.A. Hilmi, I. Fahmi, and A.G. Gibson, “Effects of water absorption on Napier grass fibre/polyester composites,” *Compos. Struct.*, vol. 144, pp. 138–146, Jun. 2016. (Q1, IF: 3.858)
33. Y. Dan-mallam, T.W. Hong, and **M.S. Abdul Majid**, “Mechanical Characterization and Water Absorption Behaviour of Interwoven Kenaf/PET Fibre Reinforced Epoxy Hybrid Composite,” *Int. J. Polym. Sci.*, vol. 2015, p. 1–13, 2015. (Q2, IF: 1.2)
34. P. Krishnan, **M.S. Abdul Majid\***, M. Afendi, A.G. Gibson, and H.F.A. Marzuki, “Effects of winding angle on the behaviour of glass/epoxy pipes under multiaxial cyclic loading,” *Mater. Des.*, vol. 88, pp. 196–206, Dec. 2015. (Q1, IF: 3.997)
35. **M. S. Abdul Majid\***, M. Afendi, R. Daud, A.G. Gibson, T.A. Assaleh, J. M. Hale, and M. Hekman, “Acoustic emission monitoring of multiaxial ultimate elastic wall stress tests of glass fibre-reinforced epoxy composite pipes,” *Adv. Compos. Mater.*, vol. 24, no. 1, pp. 1–16, Jan. 2015. (Q3, IF: 1.03)
36. **M.S. Abdul Majid\***, A.G. Gibson, M. Hekman, M. Afendi, and N.A.M. Amin, “Strain response and damage modelling of glass/epoxy pipes under various stress ratios,” *Plast. Rubber Compos.*, vol. 43, no. 9, pp. 290–299, Nov. 2014. (Q3, IF: 0.69)
37. M. Afendi, **M.S. Abdul Majid**, R. Daud, A. Abdul Rahman, and T. Teramoto, “Strength prediction and reliability of brittle epoxy adhesively bonded dissimilar joint,” *Int. J. Adhes. Adhes.*, vol. 45, pp. 21–31, Sep. 2013. (Q1, IF: 2.27)
38. **M. S. Abdul Majid\***, T.A. Assaleh, A.G. Gibson, J.M. Hale, A. Fahrer, C. A. P. Rookus, and M. Hekman, “Ultimate elastic wall stress (UEWS) test of glass fibre reinforced epoxy (GRE) pipe,” *Compos. Part A Appl. Sci. Manuf.*, vol. 42, no. 10, pp. 1500–1508, Oct. 2011. (Q1, IF: 2.74)
39. A.G. Gibson, **M.S. Abdul Majid\***, T.A. Assaleh, J. M. Hale, A. Fahrer, C. A. P. Rookus, and M. Hekman, “Qualification and lifetime modelling of fibreglass pipe,” *Plast. Rubber Compos.*, vol. 40, no. 2, pp. 80–85, Mar. 2011. (Q3, IF: 0.69)

#### SCOPUS Indexed publications

40. Kazim, M.N.F.M., Rasani, R., Nuawi, M.Z., Harun, Z., Hau, Y.K., **Majid, M.S.A.**, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, Volume 55, Issue 2, 1 March 2019, Pages 249- 263
41. Abrar, F.S.B., **M.S. Abdul Majid\***, M.J.M. Ridzuan, M.K. Faizi, K.S. Basaruddin, N.A.M. Amin, E.M. Cheng, Behaviour of GRE composite pipes after fire exposure under dry and wet internal conditioning, *IOP Conf. Series: Materials Science and Engineering* 429 (2018) 012012 doi:10.1088/1757-899X/429/1/012012
42. M.K. Faizi, Shahrman A.B, **M.S.A Majid**, Shamsul B.M, I. Zunaidi , Ng Y.G., Z.M. Razlan, W.K. Wan, The Effect of Alkaline Treatments with Various Concentrations on Oil Palm Empty Fruit Bunch (OPEFB) Fibre Structure, *IOP Conf. Series: Materials Science and Engineering* 429 (2018) 012006 doi:10.1088/1757-899X/429/1/012006
43. M.K. Faizi, Shahrman A.B., **M.S.A Majid**, Shamsul B.M.T, A.S.M Nawawi , I.Zunaidi, Ng Y.G., Z.M. Razlan, W.K. Wan, The Effect of Multiple Surface Treatments on Oil Palm Empty Fruit Bunch (OPEFB) Fibre Structure, *IOP Conf. Series: Materials Science and Engineering* 429 (2018) 012005 doi:10.1088/1757-899X/429/1/012005
44. N. Atikah, M. Afendi, Shahrman A.B., I. Zunaidi, Z.M. Razlan, W.K. Wan, M.N. Mazlee **M.S.A. Majid**, Investigation of Adhesive Joint Strength for Dissimilar Metal Adherends by Using Taguchi Method, *IOP Conf. Series: Materials Science and Engineering* 429 (2018) 012098 doi:10.1088/1757-899X/429/1/012098

45. S.B.C Wanna, K.S. Basaruddin, M.H. Mat Som, A.R. Sulaiman, A. Shukrimi, S.F. Khan, **M.S. Abdul Majid**, M.J.M Ridzuan, Fracture risk prediction on children with Osteogenesis Imperfecta subjected to loads under activity of daily living, IOP Conf. Series: Materials Science and Engineering 429 (2018) 012004 doi:10.1088/1757-899X/429/1/012004
46. S. Aziz, N.A.M. Amin, M.T.A. Rahman, A. Rahman, A.R.A. Syayuthi, **M.S.A. Majid**, S. Suhaimi, Design and Analysis of an Operative Inlet, IOP Conf. Series: Materials Science and Engineering 429 (2018) 012075 doi:10.1088/1757-899X/429/1/012075
47. M.A.A. Ahmad, **M.S. Abdul Majid**, M.J.M. Ridzuan, and A.F. Ahmad Zaidi, Impact properties of interwoven hemp/polyethylene terephthalate (PET) hybrid composites, AIP Conference Proceedings 2030, 020037 (2018); doi: 10.1063/1.5066678
48. M.J.M. Ridzuan, **M.S. Abdul Majid**, K. Azduwin, M. H. Sulaiman, The effect of alkali treatment on the tensile properties of hybrid Napier/glass reinforced epoxy composites, AIP Conference Proceedings 2030, 020036 (2018); doi: 10.1063/1.5066677
49. M. Mariam, M. Afendi, **M.S. Abdul Majid**, and M.J.M. Ridzuan, Water ageing effect on the strength of adhesively bonded joints, AIP Conference Proceedings 2030, 020039 (2018); doi: 10.1063/1.5066680
50. M Mariam, M Afendi, **M.S. Abdul Majid**, M.J.M Ridzuan, Experimental Study on the Fatigue Strength of Bonded/Bolted Metal-Fibre, AIP Conference Proceedings 2030, 020040 (2018); doi: 10.1063/1.5066681
51. Rina Syazwani Zulkafli, Nasrul Amri Mohd Amin, Mohd Sani Mohamad Hashim, Mohd Hafif Basha, **Mohd Shukry Abdul Majid**, Ruslizam Daud, Izzuddin Zaman, A review on the methods to mitigate the challenges in photovoltaic system, MATEC Web of Conferences 225, 03019 (2018) <https://doi.org/10.1051/mateconf/201822503019>
52. Noor Syahirah Mohd Hussin, Nasrul Amri Mohd Amin, Muhammad Juhairi Aziz Safar, Rina Syazwani Zulkafli, **Mohd Shukry Abdul Majid**, Mohd Afendi Rojan, Izzuddin Zaman, Performance Factors of the Photovoltaic System: A Review, MATEC Web of Conferences 225, 03020 (2018) <https://doi.org/10.1051/mateconf/201822503020>
53. Aqilah Che Sulaiman, Nasrul Amri Mohd Amin, Mohd Hafif Basha, **Mohd Shukry Abdul Majid**, Nashrul Fazli bin Mohd Nasir, Izzuddin Zaman, Cooling Performance of Thermoelectric Cooling (TEC) and Applications: A review, MATEC Web of Conferences 225, 03021 (2018) <https://doi.org/10.1051/mateconf/201822503021>
54. Nursyazwani Abdul Aziz, Nasrul Amri Mohd Amin, **Mohd Shukry Abd Majid**, Izzudin Zaman, Thermal energy storage (TES) technology for active and passive cooling in buildings: A Review, MATEC Web of Conferences 225, 03022 (2018) <https://doi.org/10.1051/mateconf/201822503022>
55. Mohd Nasir, N.F., Sucinda, A., Cheng, E.M., **Abdul Majid, M.S.**, Amin, N.A.M., Rahim, R., Jusoh, M., Abdul Khalid, M.F., The study of brown rice starch effect PN hydroxyapatite composites, International Journal of Engineering and Technology(UAE), Volume 7, Issue 2.5 Special Issue 5, 2018, Pages 69-72
56. Mohd Hori, N.A.F., Mohd Nasir, N.F., Mohd Amin, N.A., Cheng, E.M., **Majid, M.S.A.**, Rahman, S.A., The mechanical characterization of dioscorea alata and plectranthus rotundifolius starch-HA composite, International Journal of Nanoelectronics and Materials, Volume 11, November 2018, Pages 17-22
57. Revati, R., **Abdul Majid, M.S.**, Yahud, S., Cheng, E.M., Ridzuan, M.J.M., Electromagnetic interference (EMI) shielding effectiveness (SE) of unsaturated polyester resin with carbon black fillers, Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-17, 2018, Pages 119-124
58. Jackie, T., Paulraj, M.P., Adom, A.H., **Abdul Majid, M.S.**, Kinesthetic motor imagery based brain-computer interface for power wheelchair manoeuvring, Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-15, 2018, Pages 23-27
59. Cheng, E.M., Shahrman, A.B., Rahim Samsuddin, H.A., Abdul Malek, M.F., Mohd Nasir, N.F., Abdulaziz, N., **Abdul Majid, M.S.**, Basaruddin, K.S., Microwave reflection based dielectric spectroscopy for moisture content in Melele mango fruit (*Mangifera Indica L.*), Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-14, 2018, Pages 1-6
60. Cheng, E.M., Lam, C.K., Rahim Samsuddin, H.A., Mohd Nasir, N.F., **Abdul Majid, M.S.**, Khor, S.F., You, K.Y., Lee, Y.S. Effect of moisture content in beef on reflection and dielectric measurement using coaxial reflection probes, Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-14, 2018, Pages 101-106
61. Cheng, E.M., Mohd Nasir, N.F., Shahrman, A.B., Baharuddin, S.A., **Abdul Majid, M.S.**, Leech, P.W., Tanner, P., Holland, A.S. Electromagnetic interference (EMI) analysis on surface roughness of 3c-silicon carbide (3C-SiC) deposited on silicon (Si) substrate, Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-17, 2018, Pages 73-77
62. Hussin, N.S.M., Amin, N.A.M., Safar, M.J.A., **Majid, M.S.A.**, Nasir, N.F.M., Smart hydroponic system with hybrid power source, Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-14, 2018, Pages 35-39
63. Zulkafli, R.S., Bawazir, A.S., Amin, N.A.M., Hashim, M.S.M., **Majid, M.S.A.**, Nasir, N.F.M. Dual axis solar tracking system in Perlis, Malaysia, Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-14, 2018, Pages 91-94
64. Khor, S.F., Cheng, E.M., Shahrman, A.B., Mohd Nasir, N.F., Rahim At Shamsuddin, H.A., **Abdul Majid, S.**, Zakaria, Z., Basaruddin, K.S., Microwave dielectric and reflection characterization on silver grunter (*Pomadasys hasta*) and tilapia (*Oreochromis niloticus*) fish scale for potential use as scaffold, Journal of Telecommunication, Electronic and Computer Engineering, Volume 10, Issue 1-17, 2018, Pages 79-84
65. Hanis, A.H.M., **Majid, M.S.A.**, Ridzuan, M.J.M., Fahmi, I., Single fibre strength of cellulosic fibre extracted from "belatlan roots" plant, AIP Conference Proceedings, Volume 1901, 4 December 2017, Article number 110003
66. Yi, A.J., **Majid, M.S.A.**, Nor, A.M., Yaacob, S., Ridzuan, M.J.M., Failure envelope modelling of glass/epoxy composite pipes using system identification method, AIP Conference Proceedings, Volume 1902, 7 November 2017, Article number 020063
67. Ridzuan, **M.J.M.**, **Majid, M.S.A.**, Afendi, M., Firdaus, A.Z.A., Azduwin, K., Effect of elevated temperature on the tensile strength of Napier/glass-epoxy hybrid reinforced composites, AIP Conference Proceedings, Volume 1902, 7 November 2017, Article number 020062.



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**Non-indexed Journal publications**

159. R. Revati, **M.S. Abdul Majid\***, M. Normahira, Biodegradable Poly (Lactic Acid) Scaffold for Tissue Engineering: A Brief Review, *Journal of Polymer Science and Technology* 1(1) 2015: 16-24.

160. I E N Farhana, **M.S. Abdul Majid\***, M P Paulraj, E A Helmi Determination of Volume Fraction of A Glass Fibre/Matrix Composite Plate Using Vibration Analysis, *Indian Journal of Science and Technology*, 2015 Vol 8(20), IPL0212.

161. **M.S. Abdul Majid\***, R. S. Birch, M.I. Jais, R.M.N. Arib, H. Zakaria. The Behavior of Projectile Ricochet off Various Wooden Target, *Journal of Engineering Research and Educations (KUKUM)* vol.3, 2006 pp.70-75

**International Conferences**

Over 70 local and international conferences publications

**5. RESEARCH GRANTS**

	E-Science, RM	FRGS, RM	PRGS, RM	RAGS, others, RM	Total Amount, RM
Research grants	610,500	921,750	252,000	269,600	2,052,850 ( <b>*921,000</b> )

*\*Main researcher*

- Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Numerical modelling of bicortical and Unicortical screw self-loosening and self-tightening mechanism for sideways fall hip fracture  
**Grant:** Fundamental research grant Scheme (FRGS), 9003-00651 – **RM94, 000 (on-going, Jan 2019 – Dec 2021)**
- Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Piezo-resistive behaviour and interfacial interaction between impregnated graphene based sensor and glass fibre/epoxy polymer composites  
**Grant:** Fundamental research grant Scheme (FRGS), 9003-00681 - **RM78, 820.00 (on-going, Jan 2019 – Dec 2020)**



3. **Head-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Elucidation of wear and frictional behaviour of Pennisetum purpureum fibre/epoxy composites during dry and wet sliding  
**Grant:** Fundamental research grant Scheme (FRGS – MRSA) - **RM211, 320.75(on-going,** Jan 2018 – Dec 2019)
4. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** A deployable antenna system for CubeSat applications  
**Grant:** Prototype research grant Scheme (PRGS), - 9013-00024- **RM107, 000 (on-going,** 1<sup>st</sup> Dec 2015 – 30<sup>th</sup> Nov 2017)
5. **Head-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Elucidating the interaction mechanisms between the E-glass-cellulosic Pennisetum purpureum fibre and matrix interface in hybrid polymer composites.  
**Grant:** Fundamental research grant Scheme (FRGS), - 9013-00515- **RM86, 000 (Completed,** 1st Nov 2015 – 31<sup>st</sup> Oct 2017)
6. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** New predictive modeling of fire behavior of composite pipes under internal pressure loading  
**Grant:** Fundamental research grant Scheme (FRGS), - 9013-00519- **RM115, 000 (Completed,** 1st Nov 2015 – 31<sup>st</sup> Oct 2017)
7. **Head-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Elucidating the crystallization behavior of porous PLA/Pennisetum Purpureum based tissue engineering scaffold  
**Grant:** Fundamental research grant Scheme (FRGS), - 9013-00566- **RM61, 000 (Completed,** 1st Nov 2015 – 31<sup>st</sup> Oct 2017)
8. **Head-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Prototype of Automated Cyclic/Static Multiaxial Pressure Testing Rig for Qualification of Composite Pipes  
**Grant:** Prototype research grant Scheme, - 9013-00019- **RM145, 000 (Completed,** 1st August 2014 – 31<sup>st</sup> July 2016)
9. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Characterisation of a new phase change thermal storage system integrated with matrix composite  
**Grant:** Fundamental research grant Scheme (FRGS), - 9013-00566- **RM129, 000 (Completed,** 1st Nov 2015 – 31<sup>st</sup> Oct 2017)
10. **Head-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Mechanical and Impact response behavior of Napier grass fibre reinforced polymer composites  
**Grant:** Dana Pembudayaan Penyelidikan (RAGS), - 9018-00072- **RM60, 000 (Completed,** 25th Nov 2014 – 24th Nov 2016)
11. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Effect of Adhesive Thickness on Strength of Adhesively Bonded T-Joint in Urea Granulator Fluidization Bed  
**Grant:** RACE Grant, - 9017-00018- **RM49, 800 (completed,** 10 Jan 2014 – 9 Jan 2016)
12. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Characterization of Overlapping Stress Shielding and Stress Amplification Effect on Fracture Behavior of Interacting Macro-Microcracks  
**Grant:** Fundamental research grant scheme (FRGS), 9003-00377 - **RM93, 110 (Completed,** Nov '13 – Nov '15)
13. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Study of electromagnetic wave absorption in recycled glass doped with conductive elements  
**Grant:** Dana Pembudayaan Penyelidikan (RAGS), 9018-00058 – **RM56, 300 (completed,** August '13 – August '15)
14. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** A Fundamental study on an optimal design of phase change material (PCM) encapsulated in sphere as a thermal storage energy system.  
**Grant:** Dana Pembudayaan Penyelidikan (RAGS), 9018-00067 – **RM46, 500 (completed,** August '13 – August '15)
15. **Head researcher: Mohd Shukry Abdul Majid**  
**Project title:** Performance envelope for glass fibre reinforced epoxy (GRE) composite pipes under multiaxial loadings.  
**Grant:** Geran Ministry of Science, Technology and Innovation (MOSTI – sciencefund: 9005-00057) **RM226,500, (Completed,** Feb '12 – Feb '15)
16. **Co-researcher: Mohd Shukry Abdul Majid**  
**Project title:** Durability and microwave non-destructive evaluations of composite/aluminium hybrid joints for lightweight automotive structure  
**Grant:** Dana Pembudayaan Penyelidikan (RAGS) – **RM47,000, (completed,** Dis '12 – Nov '14)
17. Excellence research grant award for **Mohd Shukry Abdul Majid**  
**Grant:** Universiti Malaysia Perlis (UniMAP) (9009-00004) – **RM10, 000, (completed,** Jun '12 –May '13)
18. **Head researcher: Mohd Shukry Abdul Majid**  
**Project title:** Detecting Structural Steel Damage Using Non-Destructive Vibration Testing - 9005-00019

**Grant:** Geran Ministry of Science, Technology and Innovation (MOSTi – sciencefund) – **RM179,000**, (completed, Oct '07 – Sept '09)

19. **Co-researcher:: Mohd Shukry Abdul Majid**

**Project title:** Development Of Ultrasonic Tomographic Imaging Instrument for Measuring Oxygen Transfer Rate in Bioreactor - 9005-00021

**Grant:** Geran Ministry of Science, Technology and Innovation (MOSTi – sciencefund) – **RM205,000**, (completed, Oct '07 – Sept '09)

20. **Co-researcher:: Mohd Shukry Abdul Majid**

**Project title:** Studies of acoustics characteristics for the control of automatic pouring of molten into spin casting molding machine - 9003-00065

**Grant:** KPT Penyelidikan Fundamental (FRGS) – **RM40, 000 (completed, Oct '07 – Sept '09)**

21. **Head reseacher: Mohd Shukry Abdul Majid**

**Project title:** 'Studies of a Classroom Acoustic for Teaching Facilities' - 9003-00065

**Grant:** KPT Penyelidikan Fundamental (FRGS) – **RM13, 500 (completed, Ogos '06 – Jan '08)**

## 6. TEACHING/SUPERVISIONS

### Teaching – undergraduate course

1. ENT 242/3 Solid Mechanics I (Semester 2 2018/19)
2. ENT 141/3 Engineering Statics (Semester 1 2018/19)
3. ENT 246/3 Solid Mechanics II (Semester 2 2017/18)
4. ENT 242/3 Solid Mechanics I (Semester 1 2017/18)
5. EUT 443/3 Engineering Management (Semester 2/2016/17)
6. ENT 320/3 Mechanics of Materials (Semester 1/2016/17)
7. ENT 242/3 Solid Mechanics II (Semester 1 2015/16)
8. ENT 242/3 Solid Mechanics I (Semester 1 2014/15)
9. ENT 246/3 Solid Mechanics II (Semester 2, 2013/14)
10. ENT 242/3 Solid Mechanics I (Semester 1, 2013/14)
11. ENT 445/446 Final Year Project (Semester 1, 2013/14)
12. ENT 242/3 Solid Mechanics I (Semester 2, 2012/13)
13. ENT 414/4 Strength of Materials (Semester 2, 2012/13)
14. ENT 354/3 Solid Mechanics II Semester 1 2012/13
15. ENT 151/4 Statics (total of teaching time: 4 semesters)
16. ENT 251/4 Solid Mechanics (total of teaching time: 4 semesters)
17. ENT 482/4 Mechanical Design Project I and II (total of supervision time: 10 semesters)
18. ENT 444/6 Final Year Project (total of supervision time: 14 semesters)

	No. Ph.D. students	No. M.Sc. students	Total students	Completed
Postgrad supervision	11 (6*)	24 (17*)	35 (23*)	20 (13*)

*\*main supervisor*

-updated from GAMIS Jan 2019

### Doctor of Philosophy

1. Doctor of Philosophy (Mechanical) by Research, **2014: (Completed, 22<sup>nd</sup> Nov 2016): Main supervisor: Mohd Ridzuan bin Mohd Jamir**, “Development and Characterization of Novel Hybrid Napier/Glass fibre Reinforced Composites” School of Mechatronic Engineering, UniMAP
2. Doctor of Philosophy (Mechanical) by Research, **2013: (Completed, 14<sup>th</sup> Sept. 2017): Main supervisor: Pranesh Krishnan**, “Performance Envelope for Glass Fibre Reinforced Epoxy composite pipes under multiaxial loadings” School of Mechatronic Engineering, UniMAP
3. Doctor of Philosophy (Mechanical) by Research, **2013 (Completed, 21<sup>st</sup> Sept 2018): Main supervisor: Ang Jia Yi**, “Development of modelling for a liquid pressurised system based on system identification approach” School of Mechatronic Engineering, UniMAP
4. Doctor of Philosophy (Mechanical) by Research, **2015: (Completed, 1<sup>st</sup> Nov 2018): Co-supervisor: Mariam binti Majid**, “Static and Fatigue Analysis of Hybrid Joints for Lightweight Vehicle Structure” School of Mechatronic Engineering, UniMAP
5. Doctor of Philosophy (Mechanical) by Research, **2010: (Completed 30<sup>th</sup> April 2019): Main-supervisor: Ahmad Syayuthi bin Abdul Rahman**, “Crack behaviour of glass/epoxy composites under fatigue loadings” School of Mechatronic Engineering, UniMAP
6. Doctor of Philosophy (Mechanical) by Research, **2014: (On-going): Co-supervisor: Nursyazwani Binti Abdul Aziz**, “Damage Characterisation of Glass/Carbon Fibre Reinforced Composites Laminates Using Vibration Techniques” School of Mechatronic Engineering, UniMAP

7. Doctor of Philosophy (Mechanical) by Research, **2016:** (On-going): **Co-supervisor:** Mohd Khairul Faizi Abdul Rahman, "Energy absorption behaviour under low velocity impact for head and neck injury protection" School of Mechatronic Engineering, UniMAP.
8. Doctor of Philosophy (Mechanical) by Research, **2017:** (On-going): **Co-supervisor:** Izzawati Basirom, "Osseointegration of bone-orthodontic implant screw based on anatomical osteons strain energy interaction" School of Mechatronic Engineering, UniMAP.
9. Doctor of Philosophy (Mechanical) by Research, **2017:** (On-going): **Co-supervisor:** Zaimi bin Zainal Mukhtar, School of Marine Engineering, Universiti Malaysia Terengganu (UMT).
10. Doctor of Philosophy (Biomedical Engineering) by Research, **2018:** (On-going): **Main-supervisor:** Revati A/P Radakisnin, "Biocompatibility and bioactivity of Pennisetum Purpureum Reinforced Biodegradable Polylactic Acid (PLA) for Tissue Engineering" School of Mechatronic Engineering, UniMAP.
11. Doctor of Philosophy (Mechanical Engineering) by Research, **2018:** (On-going): **Main-supervisor:** Siti Salmi Binti Samsudin "Synergistic mechanisms of hybrid nano-fillers for thermally conductive and electrically insulating hybrid polymeric nanocomposites materials" School of Mechatronic Engineering, UniMAP.

#### Master of Science/Engineering (By Research/Dissertation)

1. Master of Science (Biomedical Engineering) by Research, **2018:** (On-going): **Main supervisor:** Sucinda a/p Eh Po, "Pennisetum Purpureum based nanowhiskers as reinforcement in polymer matrix composites" School of Mechatronic Engineering, UniMAP
2. Master of Science (Mechanical) by Research, **2017:** (On-going): **Main supervisor:** Muhammad Zikri bin Zakariya, "Thermal and fire behavior of Napier/Epoxy Composite" School of Mechatronic Engineering, UniMAP
3. Master of Science (Mechanical) by Research, **2017:** (On-going): **Main supervisor:** Faisal Abrar bin Syamsul Bahri, "Residual Strength of GRE Composite Pipe after fire exposure" School of Mechatronic Engineering, UniMAP
4. Master of Science (Mechanical) by Research, **2016:** (On-going): **Main supervisor:** Mohd Hanis bin Abd Hamid, "Characterisation of natural fibre from Belatlan root" School of Mechatronic Engineering, UniMAP
5. Master of Science (Mechanical) by Research, **2014:** (On-going): **Co-supervisor:** Ku Hafizan bin Ku Bahaudin, "Durability and Microwave Non-destructive Evaluation of Composites/Aluminium Hybrid Joints for Lightweight Automotive Structures" School of Mechatronic Engineering, UniMAP
6. Master of Science (Mechanical) by Research, **2014:** (On-going): **Co-supervisor:** Nurul Amira binti Azmi, "Effect of Heat treatment on Strength of Adhesive Bonding" School of Mechatronic Engineering, UniMAP
7. Master of Science (Mechanical) by Research, **2016:** (On-going): **Main supervisor:** Fatinah Syafiqah binti Tajudin, "Fatigue strength evaluation and dynamic mechanical analysis of Napier/epoxy composites" School of Mechatronic Engineering, UniMAP
8. Master of Science (Mechanical) by Research, **2014:** (On-going): **Main supervisor:** Fahmi Bin Idris, "Low Impact Response of A Novel Napier Grass Fibre Composite" School of Mechatronic Engineering, UniMAP
9. Master of Science (Mechanical) by Research, **2017:** (On-going): **Main supervisor:** Wan Mohammad Adlan bin Wan Ramli, "Impact Strength Of Napier Reinforced Composites with Nano Modified Epoxy" School of Mechatronic Engineering, UniMAP
10. Master of Science (Mechanical) by Research, **2013 (Completed, 26<sup>th</sup> Mac 2019):** **Main supervisor:** Siti Nazirah Binti Zamri "Modelling and Analysis of Filament Wound Glass Reinforced Epoxy (GRE) Composite Pipes under Multiaxial Loading of Ultimate Elastic Wall Stress (UEWS) Test" School of Mechatronic Engineering, UniMAP.
11. Master of Science (Mechanical) by Research, **2015: (Completed, 5<sup>th</sup> Nov 2018):** **Co-supervisor:** Nur Hafizah binti Zunaidi "Mechanism of sound absorption for micro-perforated panel backed with natural fibre" School of Mechatronic Engineering, UniMAP
12. Master of Science (Mechanical) by Research, **2017: (Completed 27<sup>th</sup> August 2018):** **Main supervisor:** Mohammad Asraf Alif bin Ahmad, "Mechanical and thermal properties characterization of hybrid HEMP/PET epoxy composites" School of Mechatronic Engineering, UniMAP
13. Master of Science (Mechanical) by Research, **2013: (Completed, 9th July 2018):** **Co-supervisor:** Nor Bakyah Binti Abu, "Effects Of Bond Thickness On Interfacial Fracture Toughness Of T-Joints In Fluidization Bed" School of Mechatronic Engineering, UniMAP
14. Master of Engineering (Mechatronics) by Research, **2013 (Completed, 23<sup>rd</sup> August 2017):** **Co-supervisor:** Jackie Teh, "Design and development of emphatic service robot using EEG and EMG signal" School of Mechatronic Engineering, UniMAP
15. Master of Science (Mechanical) by Research, **2015: (Completed 20<sup>th</sup> April 2017):** **Main supervisor:** Revati A/P Radakisnin, "Biodegradable Napier/PLA composites for Biomedical Applications" School of Mechatronic Engineering, UniMAP
16. Master of Science (Mechanical) by Research, **2013: (Completed April 2017):** **Co-supervisor:** Nur Athirah binti Mat Nawi, "Closed-form solutions and stress analysis of adhesively bonded dissimilar joint" School of Mechatronic Engineering, UniMAP.
17. Master of Science (Mechanical) by Research, **2015: (Completed 3<sup>rd</sup> April 2017):** **Main supervisor:** Maslinda bin Abu Bakar@Yahaya, "Effect of water absorption on the mechanical properties of hybrid interwoven cellulosic-cellulosic fibre reinforced epoxy composites" School of Mechatronic Engineering, UniMAP
18. Master of Science (Mechanical) by Research, **2013: (Completed 1<sup>st</sup> June 2016):** **Main supervisor:** Nurul Fitriah Binti Suhaimi "Experimental and Modelling Analysis of Crushing Behaviour of Glass Fibre Reinforced Epoxy Pipe: The Effects of Winding Angles, Aging and Temperature" School of Mechatronic Engineering, UniMAP.

19. Master of Science (Mechanical) by Research, 2013-2016: **(Completed, 7<sup>th</sup> Mac 2016)**: *Main supervisor: Fartini Binti Mohd Suhut*, "The Effect Of Nano-clay And Carbon Black On Thermo-mechanical Properties of Epoxy/Composite Laminate" School of Mechatronic Engineering, UniMAP.
20. Master of Science (Mechanical) by Research, 2013-2016: **(Completed, 3<sup>rd</sup> Mac 2016)**: *Main supervisor: Nur Farhana Izwani Bt Mohamad Ezani* "Determination Of Composite's Fibre/Matrix Composition Using Non- Destructive Vibration Technique." School of Mechatronic Engineering, UniMAP.
21. Master of Science (Mechanical) by Research, 2013-2016: **(Completed, 24<sup>th</sup> Feb 2016)**: *Main supervisor: Hawa binti Ahmad*, "Effects Of Aging On Ultimate Elastic Wall Stress (UEWS) Test Of Glass Fibre Reinforced Epoxy (GRE) Pipes Subjected To Impact Loading" School of Mechatronic Engineering, UniMAP.
22. Master of Science (Mechanical) by Research, 2013-2016: **(Completed, 18<sup>th</sup> Feb 2016)**: *Main supervisor: Muhammad Haameem bin Jameel Ahmad*, "Mechanical Properties Characterization of a Novel Napier Grass Fibre Reinforced Epoxy Composites Laminates" School of Mechatronic Engineering, UniMAP.
23. Master of Science (Mechanical) by Research, 2010-2014 **(Completed, 24<sup>th</sup> Feb 2014)**: *Co-supervisor: Mohd Hilman bin Akil Tan*, "Study of composition and structural properties of materials by vibration technique and neural network" School of Mechatronic Engineering, UniMAP.
24. Master of Science (Mechanical) by Research, 2008-2011 **(Completed, 2010)**: *Co-supervisor: Pranesh Krishnan*, "Structural Damage Detection in Steel Plates using Artificial Neural Network" School of Mechatronic Engineering, UniMAP

#### B. Engineering (Dissertation)

1. B.Eng. (Mechanical Engineering), Khor Kok Him, "Impact response performance of hybrid PALF/carbon reinforced epoxy composites." 2018/19.
2. B.Eng. (Mechanical Engineering), Halizat bin Noor Kaman, "Development of Pennisetum Purpureum nanowhisker reinforced Poly(lactic acid) (PLA) composites." 2018/19.
3. B.Eng. (Mechanical Engineering), Nashuha bt shamshudeen, "Mechanical properties characterisation of Pennisetum Purpureum nanocelulose reinforced Poly(lactic acid) (PLA) composites." 2018/19.
4. B.Eng. (Mechanical Engineering), Muhammad Naqib Aliuddin bin Rezuwan, "Mechanical characterization of oil palm empty fruit bunch (OEFB) fibre reinforced composites." 2018/19.
5. B.Eng. (Mechanical Engineering), Naveen Raj A/L S.Visvanathan, "Residual strength of glass reinforced epoxy (GRE) composite pipe after fire exposure." 2017/18.
6. B.Eng. (Mechanical Engineering), Ahmad Syamim Bin Mohd Nawawi, "The effect of surface treatment on the empty fruit bunch of palm oil fibre (OPEFB)." 2017/18.
7. B.Eng. (Mechanical Engineering), Mohd Amirul Salimi Bin Mohammad Sayuti, "Mechanical characterization of pineapple leaf fibre (PALF) epoxy composites." 2017/18.
8. B.Eng. (Mechanical Engineering), Mohd El Mustafa Salih Ibrahim Salih, "Effects of stress ratio R, on the fatigue performance of Napier/Epoxy composites" 2017/18.
9. B.Eng. (Mechanical Engineering), Norfaizah Binti Shukur, "Mechanical Properties of Coated-CNT Filled Napier/Epoxy Composites" 2017/18.
10. B.Eng. (Mechanical Engineering), Zharul Amri Bin Ahmad, "Effect of soaking time in alkaline treatments of oil palm empty fruit bunch (OEFB) fibre." 2016/17
11. B.Eng. (Mechanical Engineering), Nor Aimie Suhada Binti Ghazali, "Effect of concentration levels in alkaline treatments of oil palm empty fruit bunch (OEFB) fibre." 2016/17
12. B.Eng. (Mechanical Engineering), Puteri Noordiana Binti Imran, "Impact response of interwoven hemp/kenaf epoxy composites." 2016/17
13. B.Eng. (Mechanical Engineering), Nurafifah Binti Othman, "Effects of moistures in interwoven Kenaf/epoxy composites." 2016/17
14. B.Eng. (Mechanical Engineering), Lim Kean Hou, "Effect of nanoclay filler on mechanical and morphological properties of Napier reinforced epoxy composites." 2016/17
15. B.Eng. (Mechanical Engineering), Ahmad Khairul Izzahar B Ahmad Zaki, "Fatigue behaviour of Napier/epoxy composites." 2016/17
16. B.Eng. (Mechanical Engineering), Nor Mazawati Binti Mamat, "Mechanical properties characterisation of Kenaf/Jute interwoven composites." 2015/16
17. B.Eng. (Mechanical Engineering), Mohammad Farhan Bin Abu Hassan, "Low velocity impact response of Napier grass fibre reinforced composite effect of moisture." 2015/16
18. B.Eng. (Mechanical Engineering), Kwan Ju Hern, "Impact response of glass/Napier epoxy hybrid composites." 2015/16
19. B.Eng. (Mechanical Engineering), Nor Syuhada Bt Ismail, "Effect of moisture absorption on Impact response of Kenaf/Jute interwoven composites." 2015/16
20. B.Eng. (Mechanical Engineering), Mohamad Azman bin Rojan, "Determination of Composite's Fibre/Matrix Composition Using Non- Destructive Vibration Technique." 2014/15
21. B.Eng. (Mechanical Engineering), Muhammad Loqman bin Adam, "Tensile strength of a novel hybrid Napier/glass fibre." 2014/15
22. B.Eng. (Mechanical Engineering), Muhammad NorHafiz bin Mat Isa, "Flexural strength of a novel hybrid Napier/glass fibre." 2014/15
23. B.Eng. (Mechanical Engineering), Tuan MOhd Hafizuddin bin Tuan Zainol, "Effects of moisture on the tensile and flexure strength of Napier grass fibre reinforced composites." 2014/15
24. B.Eng. (Mechanical Engineering), Zuraidah binti Mohamad Dahurai, "Effects of elevated temperatures on the tensile and flexure strength of Napier grass fibre reinforced composites." 2014/15



25. B.Eng. (Mechanical Engineering), Siti Norsyahira bt Awang, "Effects of Napier grass fibre filler on the thermo-compressive properties of epoxy resin." 2014/15
26. B.Eng. (Mechanical Engineering), Saifullah Bin Jalaludin, "Effects of nanoclay on thermo-mechanical properties of unsaturated polyester resin" 2013/14
27. B.Eng. (Mechanical Engineering), Dayang Norhafizah Binti Abd Rahman, "The study of ply thickness configuration of composite panel and their thickness issue" 2013/14
28. B.Eng. (Mechanical Engineering), Chim Chern Hong, "Chemical composition and structural characterization of Napier grass fibres" 2013/14
29. B.Eng. (Mechanical Engineering), Tang Keng Tiam, "Mechanical properties characterisation of a novel Napier grass fibre reinforced composites" 2013/14
30. B.Eng. (Mechanical Engineering), Mohammad Hafnizam Bin Suhaimi, "Effects of carbon black on thermo-mechanical properties of unsaturated polyester resin" 2013/14
31. B.Eng. (Mechanical Engineering), Noralfitri Bin Omar, "CFD analysis of bodywork for UniART formula student car" 2013/14
32. B.Eng. (Mechanical Engineering), Pang Weng Loong, "Dielectric properties characterisation of a novel Napier grass fibre reinforced composites" 2013/14
33. B.Eng. (Mechanical Engineering), Nur Adiba Binti Mohd Hassan, "Effect of moisture on interlaminar shear stress (ILSS) test of glass fibre reinforced epoxy (GRE)" 2013/14
34. B.Eng. (Mechanical Engineering), Siti Khalijah Bt Ahmad Shariffuddin, "Effect of elevated temperature on interlaminar shear stress (ILSS) test of glass fibre reinforced epoxy (GRE)" 2013/14
35. B.Eng. (Mechanical Engineering), Azhar Bin Rahmat, "Design, modelling and analysis of a small satellites" 2013/14
36. B.Eng. (Mechanical Engineering), Shahrizat Huzani bin Maula Husain, "Shear response modelling of glass fibre reinforced epoxy (GRE) laminates" 2012/13
37. B.Eng. (Mechanical Engineering), Muhamad Alif bin Mohd Noor, "Damage cumulative model of multiaxial ultimate elastic wall stress (UEWS) test using Miner's Law" 2012/13
38. B.Eng. (Mechanical Engineering), Mohd Faiz bin Abdul Halim, "Interlaminar shear stress (ILSS) test of glass fibre reinforced epoxy (GRE) under elevated temperatures" 2012/13
39. B.Eng. (Mechanical Engineering), Som Thop a/l Emai, "Effects of aging in interlaminar shear stress (ILSS) test of GRE laminate" 2012/13
40. B.Eng. (Mechanical Engineering), Muhammad Izzat bin Ismail, "Effects of curing level on elastic behaviour of pure epoxy resin" 2012/13
41. B.Eng. (Mechanical Engineering), Muhammad Haameem bin Jameel Ahamad, "Effects of elevated temperatures and strain rates on compression properties of polyester resin" 2012/13
42. B.Eng. (Mechatronic Engineering), Mohd Ikhwan Hafizi Bin Yahya, "Design And Analysis Of Go-Kart Chassis Using Solidwork" 2007/08
43. B.Eng. (Mechatronic Engineering), Abdul Fadzil bin Abdul Latib, "Studies Of A Classroom Acoustic For Teaching Facilities" 2006/07
44. B.Eng. (Mechatronic Engineering), Lim Poh Tean, "Design Of A Classroom Acoustic Facility For Teaching" 2006/07

## 7. AWARDS

### Academic

1. *Anugerah Perkhidmatan Cemerlang (Excellent Awards) 2012*
2. Awarded 'Skim latihan Akademik' to pursue PhD in Mechanical Engineering at Newcastle University, **2008**
3. Anugerah Khas Perkhidmatan Cemerlang bagi kategori Penyelidik Cemerlang **2009** – for 'An Intelligent Embedded system for motorbike fault diagnosis' product
4. Anugerah Khas Perkhidmatan Cemerlang bagi kategori Penyelidik Cemerlang **2007** – for 'Heart Caring Handy' product
5. Awarded 'Skim latihan Akademik' to pursue M.Sc. in Mechanical Engineering at Liverpool University, **2004**

### Research

1. **Economic Impact Researcher, Malaysia's Research Star Award (MRSA) 2017, 5<sup>th</sup> Oct 2017**
2. UniMAP's Young Scientist Award, Universiti Malaysia Perlis **2017**
3. **Gold** medal at Ekspo Rekacipta, UniMAP **2016**, *Napier Fibre Decorticator Machine*
4. **Gold** medal at Ekspo Rekacipta, UniMAP **2016**, *A Portable Automatic Multiaxial Internal Pressure Testing Rig for Glass/Epoxy Composite Pipes.*
5. **Bronze** medal at PECEPTA 2015, 6-9 Dec **2015**, *A Novel Napier/Glass Fibre Hybrid Reinforced Polymer Composites*
6. **Silver** medal at Malaysia Technology Expo (MTE '15), 12-14 Feb **2015** - *An Automatic Multiaxial Pressure Testing Rig*
7. **Gold** medal at Ekspo Rekacipta, UniMAP **2015**, 6 Feb- *A Novel Napier/Glass Fibre Hybrid Reinforced Polymer Composites*
8. **Silver** medal at Ekspo Rekacipta, UniMAP **2015**, 6 Feb- *Determination Of Glass Fibre/Matrix Volume Fraction Using Non-Destructive Technique Via Neural Network System*
9. **Silver** medal at Ekspo Rekacipta, UniMAP **2015**, 6 Feb- *Fabrication of a car fender using interwoven fibre reinforced hybrid composite.*
10. **Silver** medal at Ekspo Rekacipta, UniMAP **2015**, 6 Feb- *Compact Flexural Fatigue Machine for Small Specimen*
11. **Silver** medal at Ekspo Rekacipta, UniMAP **2015**, 6 Feb- *Two-Wheel Drive Compact Oil Palm Transporter (OPTRA-1)*
12. **Silver** medal at Ekspo Rekacipta, UniMAP **2015**, 6 Feb- *Uniaxial Hinge External Fixator*
13. **Bronze** medal at Ekspo Rekacipta, UniMAP **2015**, 6 Feb- *Development of numerical physical and thermal testing model of new reinforced Mg<sub>2</sub>Si with Al-Si-Cu-Mg-Ni-Fe piston material*

14. **Silver** medal at ITEX **2014**, 8-10 May - *An Automatic Portable Pressure Testing Rig To Determine The Performance Of GRE Composite Pipes Under Various Stress Ratios*
15. **Silver** medal at ITEX **2014**, 8-10 May - *Prototype Of Compact Micro-Flexural Fatigue Testing Machine*
16. **Gold** medal at Ekspo Rekacipta, UniMAP **2014**, 7 Jan - *An Automatic Portable Pressure Testing Rig To Determine The Performance Of Gre Composite Pipes Under Various Stress Ratios*
17. **Gold** medal at Ekspo Rekacipta, UniMAP **2014**, 7 Jan - *Prototype Of Compact Micro-Flexural Fatigue Testing Machine*
18. **Silver** medal at Ekspo Rekacipta, UniMAP **2014**, 7 Jan - *A Novel Naper Grass Fibere Reinforced Epoxy Composites Laminates*
19. **Bronze** medal at i-ENVEX, UniMAP 16<sup>th</sup>-19<sup>th</sup> April **2013** - *Prototype Of Compact Micro-Flexural Testing Machine*
20. **Silver** medal at Ekspo Rekacipta, UniMAP **2013**, 6 Jan - *Prototype Of Compact Micro-Flexural Testing Machine*
21. **Bronze** medal at 9<sup>th</sup> Malaysia Technology Expo (MTE '10) 2010 - *An Intelligent Non Destructive Damage Detection System.*
22. **Gold** Medal at Ekspo Rekacipta, UniMAP 2009, Jan 7, **2010** - *An Intelligent Non Destructive Damage Detection System*
23. **Silver** medal at 8<sup>th</sup> Malaysia Technology Expo (MTE '08), **2008** - *An Intelligent Embedded system for motorbike fault diagnosis*
24. **Gold** medal at Ekspo Rekacipta dan Pameran Penyelidikan UniMAP **2007** - *An Expert System For Motorbike Engine Fault Diagnosis*
25. **Bronze** medal at Pameran ITEX **2006** - *Heart Caring Handy*

## 8. REVIEWERS/ EXTERNAL EXAMINER/ SPEAKERS

### Reviewer

1. Regular Reviewer for Composite Structures, an ISI ranked journal; ISSN: 1359-8368. (**Q1, IF: 4.829**).
2. Regular Reviewer for Composite Part B, an ISI ranked journal; ISSN: 1359-8368. (**Q1, IF: 6.864**).
3. Regular Reviewer for Materials and Design (JMAD), an ISI ranked journal; ISSN: 0264-1275. (**Q1, IF: 4.364**).
4. Regular Reviewer for Polymer composites, an ISI ranked journal; ISSN: 1548-0569. (**Q2, IF: 2.03**)
5. Regular Reviewer for Materials Research Express, an ISI ranked journal; ISSN: 2053-1591. (**Q3, IF: 1.06**)
6. Regular Reviewer for Plastics, Rubber and Composites, an ISI ranked journal; ISSN: 1465-8011 (**Q4, IF: 0.66**)
7. Regular Reviewer for Polymer Testing, an ISI ranked journal; ISSN: 0142-9418 (**Q1, IF: 2.35**)
8. Reviewer for PLOS ONE, an ISI ranked journal; ISSN: 1932-6203 (**Q1, IF: 2.806**)
9. Reviewer for Engineering Failure Analysis, an ISI ranked journal; ISSN: 1350-6307. (**Q2, IF: 1.03**)
10. Reviewer for Journal of Adhesion Science and Technology; ISSN: 1568-5616. (**Q3, IF: 1.073**)
11. Reviewer for Engineering Structures and Technologies, A Taylor Francis publication; ISSN: 2029-8838.

### External Examiner

1. **External Examiner** for PhD candidate; **Mr. M.Karthikeyan A, Education and Research Institute**, India, Mei 2019.
2. **External Examiner** for MSc candidate; **Mohammad Nor Khasbi bin Jarkoni, Universiti Malaysia Terengganu (UMT)**, 20<sup>th</sup> Sept 2018
3. **External Examiner** for MSc candidate; **Lee Shing Chuan, Universiti Teknikal Malaysia Melaka (UTeM)**, 10<sup>th</sup> July 2018
4. **External Examiner** for PhD candidate; **Mr. Vetrivel Kumar, K, Anna University**, India, April 2018
5. **External Examiner** for MSc candidate; **Yew Chee Hong@Takahiro from Universiti Malaya (UM)**, April 2018
6. **External Examiner** for PhD candidate; **Mrs. Norazean Binti Shaari @ Md. Noh, Universiti Teknologi MARA**, 28<sup>th</sup> March 2018
7. **External Examiner** for MSc candidate; **Muhamad Norkhizan bin Abdullah, Universiti Teknologi Malaysia (UTM)**, 6<sup>th</sup> April 2017
8. **External Examiner** for MSc candidate; **NurNaziha bt Aris, Universiti Teknologi Malaysia (UTM)**, 17<sup>th</sup> Dec 2015

### Academic Accreditation Panel/Audit/Advisor

1. **Ministry of Education (MOE) Research grants evaluator**, Universiti Malaysia Perlis, 23<sup>rd</sup>-26<sup>th</sup> April 2019.
2. **EAC Panel** for Bachelor of Engineering (Hons) (Biological & Agricultural), Universiti Putra Malaysia (UPM), 10-11<sup>th</sup> October 2018.
3. **ETAC Panel** for Diploma Kejuruteraan Mekanikal, Politeknik Tuanku Syed Sirajuddin (PTSS), 26-29<sup>th</sup> Sept 2018.
4. **Internal Audit Panel**, Bachelor Degree of Engineering (Hons) (Product Design), Universiti Malaysia Perlis, 31<sup>st</sup> July 2018.
5. **ETAC Panel** for Bachelor of Engineering Technology (Hons) in Mechatronics (Automotive), Universiti Kuala Lumpur-Malaysian Spanish Institute (UniKL-MSI), 19-20<sup>th</sup> March 2018.
6. **Curriculum Assessor** for German-Malaysia Institute (GMI) Programme Evaluation & Curriculum Verification, 11-12 October 2017
7. **EAC Panel** for Bachelor of Engineering (Mechanical Engineering), Taylor's University, 6-7<sup>th</sup> September 2017.
8. **Academic Advisor** for Industry Machining Technology Programme, Vocational Collage, Kangar, April 2017
9. **Internal Audit Panel** for Bachelor Degree of Mechanical Engineering Technology (Honours) (Product Development), Universiti Malaysia Perlis, 25 January 2017.
10. **Observer for Engineering Accreditation Council (EAC)** for Accreditation visit at Faculty of Engineering, Technology & Built Environment UCSI University Kuala Lumpur, 17-18<sup>th</sup> May 2016.
11. **Internal Audit Panel** for Engineering Technology Programme, Faculty of Engineering Technology (FTK), Universiti Malaysia Perlis, Unicity Campus, Sg. Chuchuh, Perlis, 31<sup>st</sup> March 2016.

### Keynote/Invited/Guess speaker/Judge

1. **Speaker** "Publishing in Q1/Q2 Journals", Universiti Kuala Lumpur Malaysia Spanish Institute (MSI), 24<sup>th</sup> October 2018.
2. **Speaker** "Workshop on effectiveness of Outcome Based Education (OBE)", Universiti Malaysia Perlis, 29<sup>th</sup> August 2018.

3. **Guest Speaker** for “What it takes to publish in Q1/Q2 journals” School of Mechatronic Engineering, Universiti Malaysia Perlis, 13<sup>th</sup> August 2018.
  4. **Guest Speaker** for “Assisting students with publications” Centre of Graduate Studies, 15<sup>th</sup> May 2018.
  5. **Guest Speaker** for Microelectronic Postgraduate Programme, “Graduate on time (GoT)” 23<sup>rd</sup> Mac 2018.
  6. **Keynote Speaker** of " International Conference on Emerging Trends in Engineering and Technology (ICETET '18)" on 9 & 10<sup>th</sup> of March 2018
  7. **Speaker** Online Workshop on “Awareness on Outcome Based Education in Engineering” Sri Ramakrishna Institute of Technology, Coimbatore (SRIT), 3<sup>rd</sup> January, 2018
  8. **Invited Speaker** for International Conference on Applications and Design in Mechanical Engineering (ICADME 2017), “Natural Fibres for Technical Applications: Napier Grass Fibre for Kenaf?” 21 – 22 August 2017
  9. **Judge**, The 1<sup>st</sup> International Malaysia-Indonesia-Thailand Symposium on Innovation and Creativity (iMIT SiC 2017), UiTM Arau, Perlis, 26<sup>th</sup> – 27<sup>th</sup> July 2017
  10. **Speaker** for “Workshop on Effectiveness of Outcome Based Education (OBE), Academic Management, Department, Deputy Vice Chancellor Office, Universiti Malaysia Perlis (UniMAP), 11<sup>th</sup> July 2017
  11. FRGS IPT evaluation panels for Technology and Engineering cluster, 2017.
  12. **Guest Speaker** for “Workshop on the PEOs, POs and LOs for Postgraduate research Programme” 2<sup>nd</sup> March 2017
  13. **Speaker** for BEM Mandatory Engineering Management workshop, 25-26 July 2016, Anjung UniMAP, Universiti Malaysia Perlis.
  14. **Speaker** for Postgraduate Supervision Workshop, 30-31<sup>st</sup> May 2016, Centre for Graduate Studies (CGS), Universiti Malaysia Perlis.
  15. **Speaker** for “**Implementation of OBE**” at School of Diploma Studies, Kampus Uniciti Sg. Chuchuh, Universiti Malaysia Perlis, 26<sup>th</sup> May 2016.
  16. **Panel iCompEx 2016** di Politeknik Sultan Abdul Halim Mua'zam Shah (POLIMAS), 23 March 2016.
  17. **Speaker** for “Understanding Bloom Taxonomy” at School of Material Engineering, Universiti Malaysia Perlis, 1<sup>st</sup> March 2016.
  18. **Speaker** for “**OBE Implementation**” at Institute of Engineering Mathematics (IMK), Universiti Malaysia Perlis 1-2<sup>nd</sup> Feb 2016.
  19. **Speaker** for OBE implementation at Faculty of Technology (FTK), Universiti Malaysia Perlis. Nov 2015
  20. **Speaker** for “**Outcome Based Education workshop**” at School of Electric Systems, Universiti Malaysia Perlis, 19 August 2015.
  21. **Judge** for Malaysian International Robot Competition (MIRoC 2014), 11<sup>th</sup> -13<sup>th</sup> April 2014.
  22. **Speaker** for Thesis Writing Workshop di Anjung UniMAP, Kulim Hi-Tech Park, 25 Jan 2014
9. **INTERNATIONAL/NATIONAL/UNIVERSITY/SCHOOL COMMITTEES**
1. **Editorial board** of the Journal of Engineering and Technology (JET), (ISSN 2180-3811; E-ISSN: 2289-814X). **2019.**
  2. **Head of Division** Applied Mechanics, School of Mechatronic Engineering, Universiti Malaysia Perlis, 1 Sept 2017 – 31<sup>st</sup> August 2019
  3. **Chairman**, International Conference on Applications and Design in Mechanical Engineering (ICADME 2019), August 2019
  4. **Organizing committee**, 17<sup>th</sup> **World Conference on Applied Science Engineering and Technology (WCASET - 18)**, 15<sup>th</sup> -16<sup>th</sup> March 2019.
  5. **Technical Committee**, 3<sup>rd</sup> International Sciences, Technology & Engineering Conference (ISTEC 2018), 18-20<sup>th</sup> April 2018.
  6. **Associate Editor**, Journal of Engineering Research and Education, Universiti Malaysia Perlis Publisher, 16<sup>th</sup> July 2018 – 15<sup>th</sup> July 2020.
  7. **Mentor** for AKEPT Young Scholars Programme 2017/18, Ministry of Education Malaysia
  8. **Editorial board** SM Journal of Polymer Science 2017
  9. **Editorial board IJMME**, International Journal of Mechanical and Mechatronics Engineering, 2016
  10. **Best Paper Selection Committee**, Malaysian Technical Universities Conference on Engineering and Technology, 6-7<sup>th</sup> Dec 2017
  11. **Conference committee member** of 2017 International Conference on Mechanical Engineering and Applied Composite Materials (MEACM) , Hong Kong, China Sep. 23-24, 2017
  12. **Advisory Committees** of 2017 International Conference on Applications and Design in Mechanical Engineering (ICADME 2017), 21 – 22 August 2017
  13. **Technical Committee** Member of the 3rd International Conference on Ocean, Mechanical and Aerospace for Scientists and Engineers (OMASE), Universiti Malaysia Terengganu (UMT), 7-8 November 2016.
  14. **General Secretary** for Joint Conference ICoMMs/ICADMe/ICoBE, 30-31<sup>st</sup> March 2015.
  15. Outcome Based Education (OBE) Team leader in ensuring the accreditation of Mechanical ,Mechatronic and Biomedical Electronics Engineering programs by Engineering Accreditation Council (EAC)
  16. **Program Technical Director** for Formula UniMAP 13-15 Sept. 2013
  17. **Technical Advisor** for UniART Racing Team 2012-present - Participate in EIMA, IPMA, Youth and Formula Varsity racing.
  18. Asset Officer for School of Mechatronic Engineering, Julai 2012-Dis 2013
  19. Oral session chairman, International Conference On Sustainable Materials (ICoSM 2013), Penang 26<sup>th</sup> -28<sup>th</sup> March 2013
  20. Location Manager, Program Baktisiswa (7 Pillars) , 7-8 Dis 2012
  21. Committee member 'Projek Menghijaukan Kampus UniMAP', 9<sup>th</sup> November 2012
  22. Secretary for National Space Colloquium 2012 (NSC '12) , 1-2 November 2012
  23. Publicity and Fundraising committee, Conference on Applied and Design in Mechanical Engineering (CADME'07). 2007
  24. Committee member in organizing, 1st International Conference on Man-Machine Systems 2006 (ICoMMs '06)
  25. Committee of ROBOCON 2006 competition organized by PPK Mechatronic.
  26. Committee of Design Competition Chancellor Cup, KUKUM 14-16 July 2004

**10. TRAININGS/WORKSHOPS**

1. ETAC New Panel Evaluators Workshop, Engineering Accreditation Council (EAC) Kelana Park View, 7-9<sup>th</sup> Feb 2018.
2. Workshop on High Impact Journals: Writing and Publishing, Laboratory of Biocomposites Technology, Universiti Putra Malaysia, 9-10 August 2017
3. Southeast Asian Higher Education Summit 2016, Higher Education Leadership Academy (AKEPT), Malaysia, 28-29<sup>th</sup> November 2016
4. New EAC Panel Workshop, Dorsett Hotel, Subang by Engineering Accreditation Department (EAD), 14-16 Dec 2015.
5. BEM Mandatory Course - Engineering Management Practice, Bilik Seminar Tun Mahathir, Seriab, 1st – 2<sup>nd</sup> Oct 2014
6. BEM Mandatory Course – Code of Ethics & Regulations, Bilik Seminar Tun Mahathir, Seriab, 28<sup>th</sup>-29<sup>th</sup> April 2014
7. Malaysia-India Education Strategic Planning Workshop, Universiti Sains Malaysia (USM) 15<sup>th</sup> -16<sup>th</sup> April 2014
8. "Outcome Based Education (OBE)" Workshop, 14 April 2014.
9. Workshop on Re-alignment of PO-CO mapping and OBE implementation at UniMAP 10-11<sup>th</sup> Feb 2014
10. BEM Mandatory Course – Safety And Health At Works, Bilik Seminar Tun Mahathir, Seriab, 22-23 October 2013
11. Forum Pasca PRU 13 vs Merdeka raya, UniMAP, 29<sup>th</sup> Ogos, 2013
12. Seminar "CDIO Framework for Re-thinking Engineering Education" 8<sup>th</sup> July 2013
13. Seminar Pemikiran Islam & Nasional (SPIN), 21<sup>th</sup> Jan 2013
14. Workshop on quality academic for engineering programme towards 2013 accreditation visit, 27-28<sup>th</sup> August 2012
15. PPK Mekatronik Research Camp, 26 July 2012
16. Program Kepimpinan Inovatif dan transformasi pensyarah muda 2012, 9-11 July 2012
17. Program Latihan Transformasi 1Malaysia (Pensyarah Muda) 2-4 July 2012
18. Seminar Akademik Antarabangsa, 28<sup>th</sup> June 2012
19. Bengkel 'Green Campus' UniMAP, 12<sup>th</sup> June 2012
20. Kursus Pendek Pengajaran & Pembelajaran PPK Mekatronik, 18<sup>th</sup> April 2012
21. Kursus Kenegaraan Sistem Saraan Malaysia PTK1 22-26 November 2007
22. Seminar Silicon Rubber Mould & room temperature vulcanizer (RTV) mould, 21-25 August 2007
23. Introduction to Fatigue 30-31 July 2007
24. Computational Fluid Dynamics software, EFD Lab V7, 11-12 July 2007
25. Kursus Induksi Umum, Kumpulan Pengurusan dan Profesional serta Sokongan 1, 23 Mei – 8 June 2007
26. Kursus Kaedah Penyelidikan, 17-18 April 2007
27. Kursus Pengajaran dan Pembelajaran 4-15 December 2006
28. CosmosWorks Professional with Motion course in SolidWorks 2005, 3-7 July 2006
29. SolidWorks Office Professional course in SolidWorks 2005, 12-16 June 2006
30. Kursus Kemahiran Kaunseling II Staf Akademik UniMAP, 30 Mei – 1 June 2006.
31. Kursus Kemahiran Kaunseling I Staf Akademik UniMAP, 12-14 December 2005.
32. Basic PLC Training (CPM1A) 12 July 2004
33. Kursus Kenegaraan Sistem Saraan Malaysia PTK1 8-12 Mei 2004

**11. INTELLECTUAL PROPERTIES**

1. End cap design for composite pipes, - **MY 15-E0048-0101**
2. Patent Application for Multiaxial pressure test rig, - **PI 2015 700298**

**12. INDUSTRIAL COLLABORATIONS/CONSULTATIONS**

1. Free The Seed Sdn Bhd, Biodegradable Food Packaging, MESTECC grant, **2018**
2. Tubex Sdn. Bhd. (176946-D) (A Member of EPIC Group), Kawasan Perindustrian Baru KSB, Kemaman Terengganu. – Development of High-Pressure Hydrostatic Testbed and Control Management System, 2019
3. Nusapetro Sdn Bhd. – Composite pipe repairs 2016
4. Advanced Materials Research Centre (AMREC), SIRIM Kulim High Tech, "A novel Napier grass fibre reinforced polyester composites", 18 Feb 2014 - 2016
5. Advanced Materials Research Centre (AMREC), SIRIM Kulim High Tech, Performance Investigation of Glass Fibre Reinforced Epoxy (GRE) Pipe under Multiaxial loadings'.
6. Asian Composite Manufacturing Sdn. Bhd. (ACMSB), Project title: A Study of Relationship between the Behaviour of CPT (Cure Ply Thickness) Reading to the Actual Ply Thickness Configuration of Composite Wing Panel. 8<sup>th</sup> October 2013 - 2014
7. Fuji Electric (M) Sdn Bhd, Kulim High Tech, The project entitled 'Investigation of lubricant optimization applied on magnetic disk media surface' July 2013 - 2015
8. Future Pipe Industries BV, Netherlands - The project entitled 'Performance Envelopes for Glass Fibre Reinforced Epoxy (GRE) Pipe 1st October 2008 - 22nd December 2011.



### 13. Bio-Statement

Ir. Dr Mohd Shukry Abdul Majid was born in Taiping, Perak on 26<sup>th</sup> Feb 1978. He received his early education at Sekolah Kebangsaan Long Jaafar, Kamunting, Taiping and his secondary education at MARA Junior Science College Taiping, Perak. Upon achieving excellent results in Malaysian Certificate of Education (GCSE O-levels equivalent), he was offered a full scholarship for A-level study and subsequently undergrad study in Engineering. He received his Bachelor of Engineering in Mechanical Engineering from University Manchester Institute of Science and Technology (UMIST) in 2001. Upon his return to Malaysia, he worked as a research and development (R&D) engineer at a semiconductor industry before joining Universiti Malaysia Perlis (UniMAP) as a lecturer in 2004. He completed his M.Sc. in Mechanical Systems Engineering from the University of Liverpool in 2005 and his PhD in Composite Engineering from Newcastle University, United Kingdom in 2011. Currently, he is serving Universiti Malaysia Perlis as an Associate Professor at School of Mechatronic Engineering after being promoted in 2016. An advocate of interdisciplinary research, his research interests lie in the strength of material's area with emphasis on the composite piping, looking at the performance of composite structures, NDE's of composites and natural fibre/green composites, hybrid reinforced/filled polymer composites, lignocellulosic reinforced/filled polymer and biodegradable composites. Though considered junior in the research world, his aptitude for high-quality research of international standing has been supported by his **155 Scopus indexed** publications with **39 (29 Q1) publications in ISI-ranked Journals having a cumulative impact factor (CIF) of 123.679**. His research findings have been published in the prestige "**Composite Structures**", (**Q1, 5% percentile**) journal where there are **12 of his papers** from a total of 68 papers written by researchers from across Malaysia. In addition, he is also a regular reviewer for several high-impacts ISI ranked journals. To date, Ir. Dr Mohd Shukry has **successfully supervised 5 PhD and 15 MSc students** and is currently supervising further 6 PhD and 9 MSc students. He received his professional engineer qualification (Ir.) from Board of Engineer Malaysia (BEM) in Mac 2016 and has been a Chartered Engineer (C.Eng) from the Engineering Council, United Kingdom since 2014. Ir. Dr Mohd Shukry Abdul Majid is a qualified evaluating panel for Engineering Accreditation Council (EAC) and Engineering Technology Accreditation Council (ETAC) which provides quality assurance in engineering higher education in Malaysia. Ir. Dr Mohd Shukry has been honoured with numerous local and international awards for his achievements including ITEX, MTE and PECIPTA. He is the first recipient from Technical University Network (MTUN) to have been awarded **Malaysia's Research Star Award 2017, as one of Malaysia's most promising and influential researchers** by the Ministry of High Education Malaysia (MOHE).

### 14. Referees

#### **Prof Dr. Abdul Hamid bin Adom**

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