CURRICULUM VITAE

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Education

1. Doctor of Philosophy (Mechanical Engineering), University of Sheffield, U.K. – 2011
2. MSc in Aerospace Engineering, Universiti Putra Malaysia – 2007
3. B Eng. (Hons) Mechanical Engineering, Universiti Tun Hussein Onn Malaysia – 2004
4. Diploma in Mechanical Engineering, Universiti Teknologi Malaysia – 2001
5. Certificate in Architectural Drafting, Industrial Training Institute, Kuala Lumpur – 1996

Areas of interest

1. Structural Health Monitoring (SHM)
2. Damage Detections and Repairs
3. Impact Studies
4. Composite and Bio composite Materials
5. Signal Processing and Instrumentations
6. Non-Destructive Testing and Destructive Testing

Professional Qualification/Membership/Affiliation

1.	Graduate Engineer	Board of Engineers Malaysia (BEM)	2005
2.	Member	The British Society of Strain Measurement (BSSM)	2010
3.	Member	American Institute of Aeronautics and Astronautics (AIAA)	2011
4.	Member	Society of Experimental Mechanics (SEM)	2011
5.	Member	American Society of Mechanical Engineers (ASME) (Membership Number: 100116692)	2011
6.	Member	AKEPT Young Researchers Circle (AYRC)	2011
7.	Member	Associate of ASEAN Engineers (AAE)	2012
8.	Member	Malaysia Society of Structural Health Monitoring (MSSHM)	2013
9.	Member	Malaysian Society of Non Destructive Testing (MSNDT)	2014
10.	Member	Institute of Engineers Malaysia (IEM) Membership Number: 25175	2015
11.	Ir. (Professional Engineer)	Board of Engineers Malasyia (BEM) PEng (Registration Number: 16954) – Mechanical Division PEng with Practicing Certificate (Registration Number: C116954) – Mechanical Division	2015

12.	Charted Engineer (CEng)	Institute of Mechanical Engineers (ImechE) (Registration Number: 632790)	2016
13.	Member	The Institution of Mechanical Engineers (ImechE), United Kingdom (Membership Number: 80088582	2016
14.	Member	Institute of Science and Technology (IScT) (Membership Number: 15647	2016
15.	Member	Malaysian Society For Engineering & Technology (MySET) (Membership Number: 1535)	2016
16.	Member	Malaysian Board of Technologist (MBOT) Professional Technologist, PTech (PT17120026)	2018
17.	Member	Majlis Profesor Negara (Membership Number: MPN04214)	2022

Administrative Work Listing

No.	Position	Duration
1.	**Draughtsman, Mechanical and Electrical** SSM Associates	1996-1997
2.	**Part Time Tutor** Program Pengajian Diploma (UTM)	1999-2004
3.	**Site Engineer, Mechanical and Electrical** SSM Associates	2004-2005
4.	**Assistant Lecturer** Department of Aerospace Engineering, UPM	2005-2011
5.	**Deputy Director/Special Administrative Officer** Industrial Relation Division, Ministry of Higher Education (MOHE), Malaysia	20 Sept 2011-20 Sept 2013
6.	**Senior Lecturer** Department of Aerospace Engineering, UPM	2013-2016
7.	**Deputy President** Malaysian Society of Structural Health Monitoring (MSSHM)	2013-2016
8.	**Guest Lecture/Trainer** Department of Mechanical and Manufacturing, UMP	2013
9.	**Guest Lecture/Trainer** ADMAL Aviation College, Nilai	29 July 2013- 2 Aug 2013
10.	**Directore/Head** Aerospace Manufacturing Research Centre (AMRC), UPM	1 Oct 2013- 30 Sept 2015
11.	**Non-Executive Independent Scientific Advisor** Aerospace Malaysia Innovation Centre (AMIC)	2014 to date
12.	**Main Researcher** Aerospace Manufacturing Research Centre (AMRC), UPM	1 July 2014- 1 July 2017
13.	**Research Associates** Institute of Tropical Forestry and Forest Product (INTROP)	2 March 2015-2 March 2017
14.	**Co-opted Member** Engineering Education Technical Division (E2TD), The Insitution of Engineer Malaysia (IEM)	2016-2018
15.	**Assoc. Professor** Department of Aerospace Engineering, UPM	2016- 30 Nov 2019
16.	**Secretary** Malaysian Society of Structural Health Monitoring (MSSHM)	2016 to date
17.	**Engineering Technology Accreditation Council (ETAC) Task Force** Institution of Engineer Malaysia (IEM)	2016 to date

18.	**Director/Head** Aerospace Manufacturing Research Centre (AMRC), UPM	23 May 2016-22 May 2018
19.	**Acting Head Department** Department of Aerospace Engineering, UPM	1 Nov 2016- 22 Jan 2017
20.	**Council Member** Defence and Safety Engineering Sub Cluster	Jan 2017 to date
21.	**International Advisory Panel** Kalasalingam University, India	1 May 2017 to date
22.	**Head, Laboratory of Biocomposite Technology (BIOCOMPOSITE)** Institute of Tropical Forestry and Forest Product (INTROP)	15 Aug 2017-14 Aug 2020
23.	**PhD Guide** Manipal Academy of Higher Education, India	9 Sept 2017 to date
24.	**Chairman of Engineering Education Technical Division (E2TD)** The Institution of Engineer Malaysia (IEM)	2018 to date
25.	**Main Reference Officer** Collaboration beteween UPM-Proton	2018
26.	**Associate Senior Fellow** Institute of Climate Change (IPI), UKM	1 Jan 2018- 31 Dec 2019
27.	**Visiting Professor** Bharath Institute of Higher Education and Research	20 July 2018-19 July 2019
28.	**Associate Researcher** Aerospace Manufacturing Research Centre (AMRC)	1 Oct 2018- 30 Sept 2019
29.	**Main Officer** Collaboration between UPM-Saveetha College	2019
30.	**Visiting Professor** Bharath Institute of Higher Education and Research	20 July 2019-19 July 2020
31.	**Professor** Universiti Putra Malaysia (UPM)	Dec 2019 to date
32.	**Associate Principle Fellow** Institute of Climate Change (IPI), UKM	1 Jan 2020- 1 Jan 2023
33.	**Director** UPM Press, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan	1 Feb 2020 to date
34.	**Program Head** Laboratory of Biocomposite Technology (BIOCOMPOSITE), UPM	1 Feb 2020 – 1 Feb 2021
35.	**External Assessor of Academic Promotion** Universiti Malaysia Terengganu (UMT)	18 May 2020-31 Dec 2023
36.	**Member of Research Fund Evaluation Committee** Ministry of Higher Education	1 March 2020-31 Dec 2021
37.	**External Examiner for School of Engineering** Asia Pacific University of Technology and Innovation (A.P.U)	1 Sept 2020- 1 Sept 2022
38.	**Chairman of Engineering Education Technical Division (E2TD)** The Institution of Engineer Malaysia (IEM)	Oct 2020- July 2021
39.	**Board Member** Koperasi Kebuniti Selangor Berhad	March 2020
40.	**Board Member** KOBUNITI Training and Consultancy Sdn Bhd	Nov 2020
41.	**Chairman of Annual Report Committee** Universiti Putra Malaysia (UPM)	Jan 2021 to date
42.	**Section Editor ASM Science Journal** Academic of Sciences Malaysia (ASM)	2021-2022

43. **MySET Auditor** 2021-2022
Registration of Society Malaysia (RoS)
44. **Penyelaras** 2021
Festival of Ideas
45. **Member** 2021-2022
Research Grant Application Evaluation Committee, Universiti Putra Malaysia

Teachings

Undergraduate Programme

1. ECC 3011 Engineering Mathematics I 3(3+0)
2. ECC 3002 Engineering Mathematics II 3(3+0)
3. EAS 4401 Finite Element Analysis 3(3+0)
4. ECC 3001 Engineering Mathematics I 3(3+0)
5. EAS 3102 Numerical Methods 2(2+0)
6. ECC 3003 Engineering Mathematics III 3(3+0)
7. EAS 3123 Management of Aerospace Industry 3(3+0)
8. EAS 3100 Management of Aerospace and Agriculture Industry 3(3+0)
9. ECV 3011 Engineers and Society 3(2+1)

Postgraduate Programme

1. EAB 5100 Research Methodology 3(3+0)
2. EAS 5701 Global Design 3(3+0)
3. KBP 5900 Research Methodology 3(3+0)
4. EAS 5001 Advanced Engineering Mathematics 3(3+0)
5. EAS 5104 Finite Element Analysis 3(3+0)2022
6. EAS 5955 Special Topic 3(3+0)
7. EAS 5108 Aerosapce Quality and Project Management 3 (3+0)
8. EAS 5408 Aerospace Structures 3(3+0)

Publications

Journals

2009

Cited Journals (2009)

1. **M.T.H. Sultan**, K. Worden, W.J. Staszewski, S.G. Pierce, J.M. Duliue-Barton, A. Hodzic. Impact damage detection and quantification in CFRP laminates: A precursor to machine learning. (2009) Structural Health Monitoring 2009: From System Integration to Autonomous Systems - Proceedings of the 7th International Workshop on Structural Health Monitoring, IWSHM 2009, 2, pp. 1528-1537. (SCOPUS)

2010

Cited Journals (2010)

2. K.S.M. Ho, S.G. Pierce, M.H. Li, G. Hayward, **M.T.H. Sultan**. Improved C-scan imaging using a Bayesian approach. (2010) Proceedings - IEEE Ultrasonics Symposium, art. no. 5935517, pp. 1813-1816. (SCOPUS)
3. N. Yidris, R. Zahari, D.L. Majid, F. Mustapha, **M.T.H. Sultan**, A.S.M. Rafie. Crush simulation of woven c-glass/epoxy unmanned ariel vehicle fuselage section. (2010) International Journal of Mechanical and Materials Engineering, 5 (2), pp. 260-267. (SCOPUS)
4. **M.T.H. Sultan**, A. Hodzic, W.J. Staszewski, K. Worden. A SEM-based study of structural impact damage. (2010) Applied Mechanics and Materials, 24-25, pp. 233-238. (SCOPUS)

2011

Cited Journals (2011)

5. **M.T.H. Sultan**, K. Worden, S.G. Pierce, D. Hickey, W.J. Staszewski, J.M. Dulieu-Barton, J.M., A. Hodzic. On impact damage detection and quantification for CFRP laminates using structural response data only. (2011) Mechanical Systems and Signal Processing, 25 (8), pp. 3135-3152. (Q1, IF: 5.005)

6. **M.T.H. Sultan**, K. Worden, W.J. Staszewski. Impact damage characterisation using a statistical approach. (2011) Structural Health Monitoring 2011: Condition-Based Maintenance and Intelligent Structures - Proceedings of the 8th International Workshop on Structural Health Monitoring, 1, pp. 1274-1282. (SCOPUS)

7. **M.T.H. Sultan**, K. Worden, W.J. Staszewski. Damage identification in CRFP laminates using a statistical method. (2011) Conference Proceedings of the Society for Experimental Mechanics Series, 6, pp. 91-101. (SCOPUS)

Non-Cited Journals (2011)

8. **M.T.H. Sultan**, F. Mustapha, A.S.M. Rafie, D.L. Majid, R. Ajir. Impact Damage Detection and Quantification for CFRP Laminates Subjected To Low Velocity Impact Damage – A NDT Approach. (2011) Journal of Malaysian Society for Non-Destructive Testing (NDT Spectra). Issue 5, pp. 15-20.

2012

Cited Journals (2012)

9. M.Z Zainol, F. Mustapha, **M.T.H. Sultan**, N. Yidris. Implementation of extreme low power micro-controller for a wireless structural health monitoring (SHM) system. (2012) Applied Mechanics and Materials, 225, pp. 344-349. (SCOPUS)

10. N. Yidris, J. Loughlan, **M.T.H. Sultan**, A.S.M. Rafie. Failure mechanics of uniformly compressed thin-walled box-section struts. (2012) Applied Mechanics and Materials, 225, pp. 172-177. (SCOPUS)

11. X.H. Cheong, A.S. Mohd Rafie, F.I. Romli, **M.T. Hameed Sultan**, N. Yidris. A study on the effect of upstream square blockage of a rotating cylinder. (2012) Applied Mechanics and Materials, 225, pp. 13-17. (SCOPUS)

12. Majid, D.L., Sani, M.N.A., Mustapha, F., Hanafi, H., **Sultan, M.T.H**. Modal properties of a cantilevered laminated woven composite plate as affected by stacking sequence and fiber orientation: An experimental study. (2012) Applied Mechanics and Materials, 225, pp. 132-137. (SCOPUS)

13. Majid, D.L., Mustapha, F., **Sultan, M.T.H**., Abdullah, E.J., Hanafi, H. Dynamic analysis of a cantilevered woven composite plate like wing. (2012) Procedia Engineering, 50, pp. 453-462. (SCOPUS)

14. Barthorpe, R., Worden, K., **Sultan, M.T.H**., Eaton, M., Pullin, R., Holford, K. The effect of attenuation on the identification of impact damage in CFRP laminates. (2012) Proceedings of the 6th European Workshop - Structural Health Monitoring 2012, EWSHM 2012, 1, pp. 698-706. (SCOPUS)

15. Mustapha, F., Mohd Aris, K.D., Wardi, N.A., **Sultan, M.T.H**., Shahrjerdi, A. Structural health monitoring (SHM) for composite structure undergoing tensile and thermal testing. (2012) Journal of Vibroengineering, 14 (3), pp. 1342-1353. (SCOPUS)

16. **Sultan, M.T.H**., Worden, K., Staszewski, W.J., Hodzic, A. *Erratum to " Impact damage characterisation of composite laminates using a statistical approach" [Compos. Sci. Technol. 72 (2012) 1108-1120*]. (2012) Composites Science and Technology, 72 (12), pp. 1477. (Q1, IF: 6.309)

17. **Sultan, M.T.H**., Worden, K., Staszewski, W.J., Hodzic, A. Impact damage characterisation of composite laminates using a statistical approach. (2012) Composites Science and Technology, 72 (10), pp. 1108-1120. (Q1, IF: 6.309)

18. **Sultan, M.T.H.,** Yidris, N., Mustapha, F., Rafie, A.S.M., Majid, D.L. *Damage identification and classification in CFRP laminates - A SEM based study.* (2012) Applied Mechanics and Materials, 225, pp. 138-143. (SCOPUS)

19. **Sultan, M.T.H**., Rafie, A.S.M., Yidris, N., Mustapha, F., Majid, D.L. *Damage classification in*

CFRP laminates using principal component analysis (PCA) approach. (2012) Applied Mechanics and Materials, 225, pp. 189-194. (SCOPUS)

20. **Sultan, M.T.H**., Basri, S., Rafie, A.S.M., Mustapha, F., Majid, D.L., Ajir, M.R. *High velocity impact damage analysis for glass epoxy - Laminated plates*. (2012) Advanced Materials Research, 399-401, pp. 2318-2328. (SCOPUS)

Non-Cited Journals (2012)

21. R. Zahari, F. Mustapha, D.L. Majid, A.S.M. Rafie and **M.T.H.Sultan**. Geometric Non-Linear Analysis of Composite Laminated Plates Using Higher Order Finite Strip Element. (2012) Applied Mechanics and Materials, 225, pp. 165-171. doi: 10.4028/www.scientific.net/AMM.225.165.

2013

Cited Journals (2013)

22. Annuar, A.N.M., Mohd Rafie, A.S., **Sultan, M.T.H**. *The study of blockages effect at leadingedge on rectangular cavity in subsonic flow using particle image velocimetry (PIV).* (2013) Applied Mechanics and Materials, 300-301, pp. 781-784. (SCOPUS)

Non-Cited Journals (2013)

23. **M.T.H.Sultan,** A.S.M.Rafie, N. Yidris, F. Mustapha and R. Zahari. Damage Classification in CFRP Laminates Using the NDT/E Approach. (2013) Journal of Malaysian Society for Non- Destructive Testing (NDT Spectra). Issue 7, pp. 217-224.

2014

Cited Journals (2014)

24. Zakikhani, P., Zahari, R., **Sultan, M.T.H**., Majid, D.L. Extraction and preparation of bamboo fibre-reinforced composites. (2014) Materials and Design, 63, pp. 820-828. (SCOPUS, IF:4.525)

25. Zakikhani, P., Zahari, R., **Sultan, M.T.H.** Simulation of low velocity impact on composite hemispherical shell. (2014) Applied Mechanics and Materials, 564, pp. 406-411. (SCOPUS)

26. Muda, M.K.H., Mustapha, F., Mohd Aris, K.D.**, Sultan, M.T.H**. Fabrication technique for bio-composite patch repair on laminated structures of CFRP plate. (2014) Applied Mechanics and Materials, 564, pp. 366-371. (SCOPUS)

27. Yidris, N., **Sultan, M.T.H.,** Harmin, M.Y., Rafie, A.S.M. *Local-overall flexural interaction of pinned-ended thin-walled I-section columns.* (2014) Applied Mechanics and Materials, 564,pp. 444-448. (SCOPUS)

28. Jamal, Q.M., Majid, D.L., Haris, M.Y., Yidris, N., **Sultan, M.T.H**. *Quasi static analysis of a biocomposite aircraft radome.* (2014) Applied Mechanics and Materials, 629, pp. 78-81. (SCOPUS)

29. Razali, N., **Sultan, M.T.H.,** Safri, S.N.A., Basri, S., Yidris, N., Mustapha, F. *High velocity impact test on glass fibre reinforced polymer (GFRP) using a single stage gas gun (SSGG) - An experimental based approach.* (2014) Applied Mechanics and Materials, 564, pp. 376-381. (SCOPUS)

30. Hamdan, A., Mustapha, F., Ahmad, K.A., Rafie, A.S.M., **Sultan, M.T.H**., Ishak, M.R. *A review on the self-energize structural health monitoring (SHM) in vertical axis wind turbine (VAWT) system.* (2014) Applied Mechanics and Materials, 564, pp. 157-163. (SCOPUS)

31. Safri, S.N.A., **Sultan, M.T.H**., Razali, N., Basri, S., Yidris, N., Mustapha, F. *The effect of layers and bullet type on impact properties of Glass Fibre Reinforced Polymer (GFRP) usinga Single Stage Gas Gun (SSGG).* (2014) Applied Mechanics and Materials, 564, pp. 428-433. (SCOPUS)

32. **Sultan, M.T.H.,** Basri, S., Rafie, A.S.M., Yidris, N., Mustapha, F., Zahari, R., Ajir, M.R. *Impact damage analysis for glass reinforced epoxy laminated plates using single stage gasgun.* (2014) Applied Mechanics and Materials, 564, pp. 382-387. (SCOPUS)

33. Razali, N., **Sultan, M.T.H.,** Aminanda, Y. *The study of impact behaviour of two types of glass fibre reinforced polymer (GFRP) subjected to low velocity impact.* (2014) Advanced Materials Research, 1044-1045, pp. 153-157. (SCOPUS)

34. Safri, S.N.A**., Sultan, M.T.H.,** Aminanda, Y. *Impact characterisation of Glass Fibre Reinforced Polymer (GFRP) type C-600 and E-800 using a drop weight machine.* (2014) Applied Mechanics and Materials, 629, pp. 461-466. (SCOPUS)

Non-Cited Journals (2014)

35. S.N.A. Safri, T.Y.Chan and **M.T.H.Sultan**. A Novel Method for Detecting And Characterizing Low Velocity Impact (LVI) In Commercial Composite. (2014) International Journal of Research in Engineering and Technology, 3(8), pp. 101-106.
36. N.Razali and **M.T.H.Sultan**. A Novel Approach for Detecting, Localising And Characterising Damages In Glass Fibre Reinforced Polymer (GFRP) Using The Drop Weight Impact Tester. (2014) International Journal of Research in Engineering and Technology, 3(8), pp. 295-306.
37. L.K.Teek, R.Zahari, F.Mustapha and **M.T.H.Sultan**. Experimental Assessment of Collapse Behavior and Energy Absorption of Composite and Hybrid Composite Square Tube Subjected to Oblique Loads. (2014) The International Journal of Engineering and Science, 3(3), pp. 13-29.
38. N.Razali, **M.T.H.Sultan**, F.Mustapha, N.Yidris and M.R.Ishak. Impact Damage on Composite Structures – A Review. (2014) The International Journal of Engineering and Science, 3(7), pp. 8-20.
39. S.N.A.Safri, T.Y.Chan and **M.T.H.Sultan**. An Experimental Study of Low Velocity Impact (LVI) On Fibre Glass Reinforced Polymer (FGRP). (2014) The International Journal of Engineering and Science, 3(8), pp. 1-10.
40. N.Razali, S.S.Sazali and **M.T.H.Sultan**. The Study of Impact Damage on C-Type and E- Type of Fibreglass Subjected to Low Velocity Impact. (2014), The International Journal of Engineering and Science, 3(8), pp. 11-25.
41. S.N.A.Safri, **M.T.H.Sultan**, N.Yidris and F.Mustapha. Low Velocity and High Velocity Impact Test on Composite Materials – A Review. (2014). The International Journal of Engineering and Science, 3(9), pp. 50-60.
42. P. Zakikhani, R. Zahari, **M. T. H. Sultan** and D. L. Majid. Bamboo Fibre Extraction and Its Reinforced Polymer Composite. (2014) International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering, 8(4), pp. 315-318.

2015

Cited Journals (2015)

43. Salman, S.D., Leman, Z., **Sultan, M.T.H**., Ishak, M.R., Cardona, F. Influence of resin system on the energy absorption capability and morphological properties of plain woven kenaf composites. (2015) IOP Conference Series: Materials Science and Engineering, 100 (1), art. no. 012053. (SCOPUS)
44. Sharba, M.J., Leman, Z., **Sultan, M.T.H**., Ishak, M.R., Hanim, M.A.A. Monotonic and fatigue properties of kenaf /glass hybrid composites under fully reversed cyclic loading. (2015) IOP Conference Series: Materials Science and Engineering, 100 (1) (SCOPUS)
45. Safri, S.N.A., **Sultan, M.T.H**., Cardona, F. Impact damage evaluation of Glass-Fiber Reinforced Polymer (GFRP) using the drop test rig - An experimental based approach. (2015) ARPN Journal of Engineering and Applied Sciences, 10 (20), pp. 9916-9928. (SCOPUS)
46. Cardona, F., **Sultan, M.T.H**., Talib, A.R.A., Ezzah, F., Derahman, A. Interpenetrating polymer network (IPN) with epoxidized and acrylated bioresins and their composites with glass and jute fibres. (2015) BioResources, 11 (1), pp. 2820-2838. (SCOPUS, IF: 1.334)
47. Salman, S.D., Leman, Z., **Sultan, M.T.H**., Ishak, M.R., Cardona, F. Kenaf/synthetic and Kevlar®/cellulosic fiber-reinforced hybrid composites: A review. (2015) BioResources, 10 (4), pp. 8580-8603. (SCOPUS, IF: 1.334)
48. Sharba, M.J., Salman, S.D., Leman, Z., **Sultan, M.T.H**., Ishak, M.R., Azmah Hanim, M.A. Effects of processing method, moisture content, and resin system on physical and mechanical properties of woven kenaf plant fiber composites. (2015) BioResources, 11 (1), pp. 1466-1476. (SCOPUS, IF: 1.334)
49. Khajeh, A., Mustapha, F., **Sultan, M.T.H**., Bánhegyi, G., Karácsony, Z., Baranyai, V. The Effect of Thermooxidative Aging on the Durability of Glass Fiber-Reinforced Epoxy. (2015) Advances in Materials Science and Engineering, 2015, art. no. 372354. (SCOPUS, IF: 1.372)
50. Salman, S.D., Sharba, M.J., Leman, Z., **Sultan, M.T.H.,** Ishak, M.R., Cardona, F. Physical, Mechanical, and Morphological Properties of Woven Kenaf/Polymer Composites Produced Using a Vacuum Infusion Technique. (2015) International Journal of Polymer Science, 2015, art. no. 894565. (SCOPUS, IF: 1.718)

Non-Cited Journals (2015)

51. Elias Randjbaran, Rizal Zahari, Dayang Laila Majid, **Mohamed Thariq Hameed Sultan** and Norkhairunnisa Mazlan, Effects of Carbon Nanotube on Mechanical Properties of Composite plates – A Review Paper, (2015) Matrix Academic International Online Journal of Engineering and Technology, 3(2), pp. 9-16.
52. Razali, N., & **Sultan, M. T. H**.. The Study of Damage Area and Non-Destructive Testing On Glass Fibre Reinforce Polymer after Low Velocity Impact Event. (2015) Applied Mechanics & Materials, 754, pp. 874-880. doi: 10.4028/www.scientific.net/AMM.754-755.874
53. Salman, S. D., Leman, Z., **Sultan, M. T. H**., Ishak, M. R., & Cardona, F.. Mechanical and morphological properties of 45/− 45 woven kenaf reinforced PVB-phenolic resin produced using a hot press technique. (2015) In Malaysia Polymer International Conference, pp. 1- 10.

<u>2016</u>

Cited Journals (2016)

54. Shah, A.U.M., **Sultan, M.T.H.,** Jawaid, M., Cardona, F., Talib, A.R.A. A review on the tensile properties of bamboo fiber reinforced polymer composites. (2016) BioResources, 11 (4), pp. 10654-10676. (SCOPUS, IF: 1.334)
55. Razali, N., **Sultan, M.T.H**., Cardona, F. An experimental study of non-destructive testing on glass fibre reinforced polymer composites after high velocity impact event (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), art. no. 012045. (SCOPUS)
56. Mohammed, I., Talib, A.R.A., **Sultan, M.T.H**., Saadon, S. Temperature and heat flux measurement techniques for aeroengine fire test: A review. (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), art. no. 012036. (SCOPUS)
57. Arumugaprabu, V., Uthayakumar, M., Cardona, F., **Sultan, M.T.H**. Mechanical characterization of coir/palmyra waste fiber hybrid composites (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), art. no. 012054. (SCOPUS)
58. Balasubramanian, K., **Sultan, M.T.H**., Cardona, F., Rajeswari, N. Machining analysis of natural fibre reinforced composites using fuzzy logic. (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), art. no. 012051. (SCOPUS)
59. Jayakrishna, K., Balasubramani, K., **Sultan, M.T.H**., Karthikeyan, S. Investigations of the mechanical properties of bi-layer and trilayer fiber reinforced composites. (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), art. no. 012050. (SCOPUS)
60. Jeyakumar, S., Yuvaraj, K.A., Jayaraman, K., Cardona, F., **Sultan, M.T.H**. Effect of cavity fore wall modifications in supersonic flow. (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), art. no. 012002. (SCOPUS)
61. Pandian, A., Veerasimman, A.P., Vairavan, M., Francisco, C., **Sultan, M.T.H**. A study on the crushing behavior of basalt fiber reinforced composite structures. (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), (SCOPUS)
62. Shanmugavel, R., Jayamani, M., Nagarajan, R., Irullappasamy, S., Cardona, F., **Sultan, M.T.H**. *Processing and characterization of redmud reinforced polypropylene composites*. (2016) IOP Conference Series: Materials Science and Engineering, 152 (1), art. no. 012053. (SCOPUS
63. Senthilkumar, K., Siva, I., Jappes, J.T.W., Amico, S.C., Cardona, F., **Sultan, M.T.H**. Effect of inter-laminar fibre orientation on the tensile properties of sisal fibre reinforced polyester composites. (2016) IOP Conference Series: Materials Science and Engineering, 152 (1). (SCOPUS)
64. Mostafa, N.H., Ismarrubie, Z.N., Sapuan, S.M., **Sultan, M.T.H**. The influence of equi- biaxially fabric prestressing on the flexural performance of woven E-glass/polyester- reinforced composites. (2016) Journal of Composite Materials, 50 (24), pp. 3385-3393. (SCOPUS, IF: 1.613)
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20. **Mohamed Thariq Hameed Sultan**, M. Rajesh, K. Jayakrishna. Repair of Advanced Composites for Aerospace Applications. (1st ed.). CRC Press. ISBN: 1000550044, 97810005500472022, 2022.
21. **Mohamed Thariq Hameed Sultan**, Herzadawati Mohd Amjah. Kuala Langat Selangor Precious. Penerbit Universiti Putra Malaysia, Serdang, Selangor. ISBN: 978-967-2989-43-1, 2022.
22. Mohd Roslan Sulaiman, Mohd Ekhwan Toriman, Md Amin Md Taff, Mohd Izani Mohd Zain, **Mohamed Thariq Hameed Sultan**, Azmawani Abd. Rahman. KPT bersama Rakyat. Penerbit Universiti Putra Malaysia, Serdang, Selangor. ISBN: 978-967-0035-15-4, 2022.
23. **Sultan MTH**, Abd-Aziz S, and Napathorn SC. Pineapple and Its Wastes Utilisation Towards Circulat Bioeconomy and Sustainability. Penerbit Universiti Putra Malaysia, Serdang, Selangor. 2022.
24. M. Uthayakumar, S. Bathrinath, **Mohamed Thariq Hameed Sultan**, Adam Slota, M.B. Nidhi. Advances In Sustainable Manufacturing- A Catalyst for Processes and Systems for Next Generation Manufacturing. Penerbit Universiti Putra Malaysia, Serdang, Selangor. 2022.

Journal Editor

1. Lead Guest Editor, Special Issue "Thermoset-based natural composites", International Journal of Polymer Science, June 2021
2. Topic Editors, Research Topic "Impact Damage on Natural Fiber Composites – An Experimentaland Numerical Approach", Frontiers in Materials – Polymeric and Composite Materials

Article in Magazine

1. **Mohamed Thariq.** *Professor on Duty @ Bijak Matematik in Masjid Nurul Iman, Kampung Batu 10, Kebun Baharu*. BERNAMA, 2017.
2. **Mohamed Thariq.** Mandeep Singh Jit Singh, Ali Ahmad Mazlan, Imran Najeeb. *Engineers of the Future.* Jurutera, The Institution of Engineer Malaysia (IEM), December 2018. ISSN:0126-9909
3. **Mohamed Thariq.** Mandeep Singh Jit Singh, Ain Umaira Md Shah. *Professor on Duty – Organised by E2TD in Collaboration with Universiti Putra Malaysia & Universiti Kebangsaan Malaysia*. Jurutera, The Institution of Engineer Malaysia (IEM), December 2018. ISSN: 0126-9909
4. **Mohamed Thariq.** *Professor on Duty @ Bijak Matematik in Masjid Nurul Iman, Kampung Batu 10, Kebun Baharu*. Jurutera, The Institution of Engineer Malaysia (IEM), No. 10, October 2018. ISSN: 0126-9909
5. **Mohamed Thariq.** *Kerjasama UPM-AHM dalam industri aeroangkasa.* Utusan Malaysia, January 18, 2018.
6. **Mohamed Thariq.** *UPM wins big at R&D and Innovation Expo.* New Straits Times, November 4, 2019.
7. **Mohamed Thariq.** *Penyelidik upm cipta dron daun nanas miliki daya rintangan elektrik.* Dagang News, July 23, 2020.
8. **Mohamed Thariq.** *RE-INVENTING THE FACE OF AGRICULTURE: Transforming Waste into Wealth with UPM's Prof. Ir. Ts. Dr. Mohamed Thariq Bin Haji Hameed Sultan.* Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA), 2021.
9. **Mohamed Thariq.** *Penyelidik UPM cipta dron daripada daun nanas.* Astro Awani, July 23, 2021.
10. Noraini Ahmad, **Mohamed Thariq.** *Pandemik tuntut IPT sentiasa siap siaga.* Berita Harian, October 5, 2021.
11. **Mohamed Thariq.** *Malaysian team turns pineapple waste into disposable drone parts.* Reuters, January 5, 2021.
12. **Mohamed Thariq.** *Malaysian team turns pineapple waste into disposable drone parts.* The Star, March 11, 2022.

Keynotes/Invited Presentations

International

1. **Guest Lecture**, The University of Sheffield, March 2010.
2. **Module Lecture,** The University of Sheffield, March 2011.
3. **Invited Speaker,** International Conference on Advancements in Polymeric Materials, India,12-14 February 2016.
4. **Keynote Speaker,** 2nd International Conference on Thermal, Energy and Environment (INCOTEE 2016), India, 25-26 March 2016.
5. **Keynote Speaker,** International Conference on Emerging Trends in Engineering and Technology (ICETET 2016), India, 7th April 2016.
6. **Keynote Speaker,** 3rd International Conference on Computational Methods in Engineeringand Health Sciences (ICCMEH-2016), Japan, 17-18 December 2016.
7. **Invited Speaker,** 3rd Malaysia Super Satellite Campus (MSSC) International Workshop on Engineering & Health Science 2017 Collaboration for Bioengineering, Mechanics & Nano-Materials, Malaysia, 31st January 2017.

8. **Keynote Speaker,** International Conference on Automotives systems, Agricultural Equipments and Manufacturing (ICAAM 2017), India, 24-25 March 2017.
9. **Invited Speaker,** International Workshop on Advanced Composites and Its Manufacturing, Malaysia, 10-13 April 2017.
10. **Keynote Speaker,** International Symposium on Composite and Nanocomposite Materials 2019 (Isymposite I, 2019), Morocco, 8th – 10th April 2019.
11. **Distinguish Speaker/Keynote Speaker,** International Conference on Emerging Trends in Engineering and Technology (ICETET 19), India, 29th May 2019.
12. **Keynote Speaker,** 5th Joint International Conference on Mechatronic, Mechanical and Biomedical Engineering (JICOMMBE 2019), Penang, Malaysia, 26th – 27th August 2019.
13. **Keynote Speaker,** 3rd International Conference on Technological Advances in Mechanical Engineering (ICTAME 2019), India, 19th – 20th September 2019.
14. **Keynote Speaker,** 2nd International Conference on Recent Innovations and Developments in Mechanical Engineering (ICRIDME 2K19), Department of Mechanical Engineering, BIHER, Chennai, 15th November 2019.
15. **Keynote Speaker,** International Conference on Futuristic Trends in Mechanical, Materials & Manufacturing (ICMMM2020), Tamil Nadu, India, 2nd - 3rdApril 2020.
16. **Keynote Speaker,** Faculty Development Program (FDP); "The Composite During Lockdown", Centre of Composite Materials, Department of Mechanical Engineering, Kalasalingam University, India, 21st May 2020.
17. **Speaker,** Faculty Development Programme on 'Drone View of Hotspots in Mechanical Engineering', Department of Mechanical Engineering, St' Peters Institute of Higher Education and Research, India, 25-29 May 2020.
18. **Speaker,** "Step by Step procedure for Writing Research article", International Seminar on Art of Writing Scientific Articles, Funding Proposal and Patent, Chennai Institute of Technology, India, 26th -27th May 2020.
19. **Speaker,** The art of writing a research paper, Webinar Session, Bannari Aman Institute of Technology Santhayamangalam, 13th June 2020.
20. **Inaugural,** International e-Conference on Futuristic Trends In Mechanical, Materials & Manufacturing (ICMMM 2020), St' Peters Institute of Higher Education and Research, India,16th June 2020.
21. **Keynote,** First International Virtual Conference On Advanced Materials And Manufacturing And Process (IVCAMMP 2020), Kalasalingam University, India, 20th June 2020
22. **Keynote Speaker,** Virtual International Conference on Innovation in Interdisciplinary Research 2020, Kalasalingam Academy of Research and Education, India, 23rd – 24th June2020
23. **Keynote Speaker,** "Embracing IR4.0", INTI's 3rd International Conference on Innovation and Technopreneurship 2020 (ICIT 2020), Malaysia, 24th – 25th September 2020.
24. **Invited Speaker,** "Emergent Materials for the future", Qatar University Conference, 15th – 17th March 2021.
25. **Keynote Speaker,** Virtual International Conference on Product Design, Development and Deployment, VIT India, 11th – 12th September 2021.
26. **Inaugural,** International Conference on Engineering Research (ICER 2022), P.S.R. Engineering College, India, 22nd April 2022.
27. **Keynote Speaker,** International Innovation ARSVOT Malaysia 2022 (IAM 2022), Malaysia, 25th – 26th June 2022.
28. **Keynote Speaker,** International Conference on Linguistics, Digital Creative, Economy, Management, Social Sciences, and Technology (ICoLEMST), Widyatama University, Indonesia, 12th October 2022.

National

1. **Invited Speaker,** Composite Material Preparation Course Seminar, 29 Oct 2013
2. **Invited Speaker,** An Overview of Skill Based Education vs Academic Based Education,Kuala Lumpur, 27 February 2015.
3. **Invited Speaker,** Project Design and Exhibition 2016 (ProDEX2016), 23rd August 2016
4. **Invited Speaker,** ETAC Self-Assessment Report (SAR) and Accreditation Workshop for IHL, Putrajaya, 8-9 October 2016.
5. **Invited Speaker,** ETAC Evaluation Panel Members Workshop, Putrajaya, 3-4 November2016.
6. **Invited Speaker,** ETAC Evaluation Panel Members Workshop, Putrajaya, 5-6 November2016.
7. **Invited Speaker,** Bengkel Pemurnian 'Self-Assessment Report' (SAR), Putrajaya, 15-16November 2016.
8. **Invited Speaker,** IEM Corporate Member Application Form Filling Workshop,UKM, 14 February 2017.
9. **Invited Speaker,** Teen Camp, Malaysia, 20 May 2017.
10. **Invited Speaker,** On The Route to Become a Chartered Engineer (CEng) and ProfesionalEngineer (Peng), Universiti Putra Malaysia (UPM), 22 August 2017.
11. **Invited Speaker,** BEM Application Form Filling Workshop, UKM, 17 October 2017.
12. **Invited Speaker,** How to Become Professional Engineers and Professional Technologies,UTHM Pagoh, 28 December 2017.
13. **Invited Speaker,** How to Become Professional Engineers and Professional Technologies,UTHM Pagoh, 28 February 2018.
14. **Invited Speaker,** Briefing on Routes to Professional Engineer (PE) Through MySET,IIUM, 26 April 2018.
15. **Invited Speaker,** Technology Program Curriculum Development Workshop for Energy Engineering, Universiti Malaysia Kelantan, 26 Jun 2018.
16. **Invited Speaker,** Project Design and Exhibition 2019 (ProDEX2019), 3 Jan 2019.
17. **Invited Speaker,** 6th International Conference on Space Science & Communication(ICONSPACE 2019), Johor, Malaysia 28th – 30th July 2019.
18. **Invited Speaker (Public Lecture Session Speaker),** National Science Week 2019 Phase 2 Melaka State Level, Melaka, Malaysia, 15 August 2019.
19. **Speaker,** Technical Workshop: Waste – Natural Fiber Application for Green Composite,INTROP, UPM, 11 February 2020.
20. **Webinar Session Speaker,** Intervention program for problematic students in graduate studies, Universiti Malaysia Pahang, 30th June 2020.
21. **Invited Speaker**, "How to Publish In High Impact Journal: An Eagle Eye View.", 25th May 2021, Universiti Pendidikan Sultan Idris (UPSI)
22. **Invited Speaker**, Publication in Scopus Cited Journal, 29th June – 1st Julai 2021, Malaysian Nuclear Agency.
23. **Speaker AMRC Talk,** Working Towards Uplifting the Revenue For Farmers: From Waste to Wealth

    1st June 2021, Aerospace Malaysia Research Centre (AMRC), Faculty of Engineering, Universiti Putra Malaysia (UPM).
24. **Speaker,** "Penulisan Journal Saintifik dari Peringkat Idea hingga ke Penerbitan", in Seminar Dan Bengkel Penulisan & Penerbitan Saintifik, 28th – 30th June 2022, Melaka, Malaysia.
25. **Invited Speaker,** Safety and Health Towards IR4.0, School of Engineering, UOW Malaysia KDU, Utropolis Glenmarie,27th July 2022.

Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund

1.	Operational Modal Analysis of An AeroelasticallyInduced Composite Wind Tunnel Model **(Co-Researcher)-*Completed***	218,200	2011 - 2013	E-Science Fund, MOSTI
2.	A Novel Methods of Impact Damage Detection and Characterisation in Composite Materials **(Principal Researcher)-*Completed***	30,000	14 Oct 2011 - 3 Oct 2013	RUGS (5) (UPM)
3.	Structural Health Monitoring Benchmark Problem Using Monitored Data From Non-Damage And Damaged Composite Structures – An Experimental Based Approach **(Principal Researcher)- *Completed***	50,000	1 Nov 2013 - 31 Oct 2015	GP-IPM (UPM)
4.	The Post-Buckled Coupled Mode Interaction Behaviour of Aircraft Aluminium Stiffened Panels in Compression **(Co-Researcher)- *Completed***	59,000	2013 - 2015	FRGS (MoE)
5.	A Novel Method For Detecting (Low Velocity, High Velocity and Ballistic Impact) In Commercial Composite As Well As Bio-Composite Material Using Advanced Signal Processing Methods **(Principal Researcher)- *Completed***	166,000	2014 - 2015	GP-IPB (UPM)
6.	Upstream Fundamental Research in Bamboo – Determining the Characterization of Different Species of Bamboo Found in Peninsular Malaysia as Reinforced Composite Material **(Principal Researcher)- *Completed***	79,000	2014 - 2016	FRGS (MoE)
7.	Determination Of Low And High Velocity Impact Properties Of Kenaf-Kevlar Reinforced Hybrid Composites **(Co-Researcher)-*Completed***	15,000	17 Nov 2014 – 17 Nov2016	GP-IPS(UPM)
8.	Impact Resistance, Penetration Behaviour and Vibration Analysis of Glass/Sugar Palm Fibre Reinforced Polyurethane Hybrid Composite for AntiRoll Bar (ARB) Applications **(Principal Researcher)- *Completed***	88,200	1 Jan 2015 – 30 June2017	GP-IPB (UPM)
9.	Mechanical characterization, effect of hygrothermal conditioning and failure analysis research on carbon/flax fibre based epoxy Al metal laminate (FML) for future use in Aircrafts **(Co-Researcher)-*Completed***	113,800	2 Nov 2015 – 1 Nov 2018	FRGS(MoE)
10.	Mechanical Properties and Impact Behavior Of Glass/Sugar Palm Fibre Reinforced Hybrid Composite **(Principal Researcher)-*Completed***	20,000	1 Apr 2016 – 1 Apr 2018	GP-IPS (UPM)
11.	Impact Characterization and Thermal Analysis Of Flax/Kenaf/Epoxy Composites With The Hybridization Of Different Types OF Woven Glass Fibre Reinforced Polymer (GFRP) **(Principal Researcher)-*Completed***	20,000	1 June 2016 – 1 June 2018	GP-IPS (UPM)
12.	Safe Biodegradable Packaging **(Collaborator) – *On Going***	5,334,351	1 Nov 2016 – 31 Dec 2019	Newton-Ungku Omar Fund (6300873)
13.	Production of thermoplastic biopolymer **(Principal Researcher) – *On Going***	600,000	1 Jan 2018 – 31 Dec 2019	Newton-Ungku Omar Fund (6300896)
14.	Leaders in Innovation Fellowship (Newton Grant)	100,000	Dec 2017	Newton Ungku

	(Principal Researcher) – *On Going*			Omar Fund (Royal Academic of Engineering)
15.	Development of high-performance bio based sandwich panel structured composite for automotive applications **(Co-Researcher)- *On-Going***	230,000	1 March 2017 – 28 Feb 2020	HiCoE
16.	Design and fabrication of Crash Box and Food Tray Table from Bamboo/Roselle Hybrid Composites **(Principal Researcher)-*Completed***	152,300	1 July 2016 – 1 July 2018	GP-IPB (UPM)
17.	Investigation on Physical, Mechanical and Thermal Properties of New Hybrid Kenaf/Pineapple Leaf Fibre Composites for Structural Applications **(Principal Researcher)-*On-Going***	80,000	1 Jan 2018 – 31 Dec 2019	HiCoE
18.	Damage Model and Simulation Process Of FRP Composite Materials For Aerospace Composite Structures **(Co-Researcher)- *On-Going***	50,000	2 Apr 2018 – 2 March 2022	Geran Putra (UPM)
19.	Development of Novel Pineapple leaf fibre extraction machine for villagers from waste to wealth **(Principal Researcher)-*On-Going***	25,000	1 March 2018 - 1 March 2019	KTGS(UPM)
20.	Investigation of Shape Memory Nanocomposite forMorphong Wing Skin Application **(Principal Researcher)-*Completed***	25,000	2 Apr 2018 – 2 July 2020	GP-IPS (UPM)
21.	A Study of Physical, Mechanical and Thermal Properties on Napier Grass/Fiber Hybrid Fiber Reinforced Epoxy Hybrid Composites for Aerospace Industry **(Principal Researcher)-*Completed***	25,000	2 Apr 2018 – 2 July 2020	GP-IPS (UPM)
22.	Development of multi-role unmanned aerial system wing using Fluid Structure Interaction **(Co-Researcher)- *On-Going***	50,000	1 May 2019 – 30 April 2021	GP-IPM(UPM)
23.	Development of Advanced Commercial Composite Materials with Malaysian Palm Oil Fibres **(Principal Researcher)-*On-Going***	150,000	1 Dec 2018 – 30 March 2022	GP-IPB (UPM)
24.	Isolation and Characterization of Bamboo Nanocellulose as Reinforcement in Bioplastics **(Principal Researcher)-*On-Going***	90,200	1 Sept 2019 – 30 Nov 2022	FRGS (MoE)
25.	Fund for Community Project Development at Kebun Baru, Telok Panglima Garang **(Principal Researcher)-*On-Going***	50,000	24 Mei 2019	Community Grant (YB Dr Xavier, Minister of Water, Land and Natural Resources)
26.	Knowledge Transfer: An Industry Level Perspective **(Principal Researcher)-*On-Going***	5,000 Pound	6 Oct 2020 – 31 March2021	LIF Community Grant 2020-2021, Royal Academy of Engineering,

				United Kingdom
27.	Pineapple Leaves Fibre Extraction Machine **(Principal Researcher)-*On-Going***	15,000	19 Nov 2020 – 19 Mei 2021	Dana Geran Khas Harta Intelek, Yayasan Inovasi Malaysia
28.	Risk Communication to Protect Public Health **(Co-Researcher)- *On-Going***	90,000	1 Nov 2020 – 31 May 2021	COVID-19 Supplementary Fund, Malaysia One Health University Network
29.	Fostering Technical Entrepreneurship in Research Communities through Localised Content and Industrial Experts **(Co-Researcher)- *On-Going***	5,000 Pound	6 Oct 2020 – 6 April 2021	LIF Community Grant 2020-2021, Royal Academy of Engineering, United Kingdom
30.	Characterization of Nanoclay Wood Hybrid Polyamide Biocomposite Profiles via Extrusion Technique for Type-I Railway Sleeper **(Co-Researcher)- *On-Going***	120,000	15 Oct 2020 – 15 Nov 2023	Geran Putra Berimpak (GPB)
31.	Pineapple Leaves Fibre Extraction Machine **(Principal Researcher)-*On-Going***	50,000	1 Jan 2021 – 30 Jun 2021	Dana Pembangunan Projek Inovasi
32.	Pineapple Leaves Fiber Extraction Blade for Extractor Machine **(Principal Researcher)- *On-Going***	30,000	8 March 2021 – 7 March 2022	Geran Innohub
33.	Intravenous Cannular Protector (IVC Protector) **(Co-Researcher)- *On-Going***	60,000	7 Dec 2021 – 6 Dec 2022	Geran Innohub
34.	Development of multi-role unmanned aerial Systems wing using Fluid Structure Interaction **(Co-Researcher)- *On-Going***	50,000	1 May 2019 – 30 Aug 2022	GP-IPM - Geran Putra Inisiatif Putra Muda
35.	Peneraju Program/Ketua Penjana KPT - Career Advancement Program (KPT-CAP) **(Principal Researcher)- *On-Going***	1,056,000	2021	KPT dan KOBUNITI
36.	Structural Application from Pineapple Leaf Fiber **(Principal Researcher)- *On-Going***	21,025	2021 - 2022	SEARCA Regional Professorial Chair Grant

Awards/Recognition (Current) – Inside and Outside UPM

No.	Name of Awards	Title	Award Authority	Award Type	Year
1.	Award for Architectural Drafting	Best Trainee	Industrial Training Institute, Award for Architectural Drafting	National	1996
2.	Dean's List	Best Student Award	University Technology Tun Hussien Onn Malaysia (UTHM)	National	2004
3.	Chancellor's Award	Best Student in Mechanical Engineering	University Technology Tun Hussien Onn	National	2004

			Malaysia (UTHM)		
4.	Space Publishing Prize 2010	Professional Paper in the field of space application (presentation at the conference), Third Place	State Space Agency	National	2010
5.	Malaysian Space Publication Award	Professional Paper in the Field of Space Application (Presentation at the International Conference), Third Prize	Ministry of Science and Technology, Malaysia (MOSTI)	International	2011
6.	Excellent Award	Excellent Service 2011 (97.34)	Universiti Putra Malaysia	University	2011
7.	Outstanding Graduate Award	Best Graduate Award	Ministry of Human Resources (MOHR) Malaysia	National	2012
8.	Excellent Award	Excellent Service2012 (96.33)	Universiti Putra Malaysia	University	2012
9.	Excellence in Teaching Award	Excellence in Teaching Award	Faculty of Engineering, UPM	Faculty/ University	2012
10.	Excellent Award	Excellent Service2013 (92.50)	Universiti Putra Malaysia	University	2013
11.	Appreciation Ceremony INTROP	Best Lab Award; Biocomposite Technology Laboratory	INTROP, UPM	Research Institute	2014
12.	Excellent Award	Excellent Service2014 (97.75)	Faculty of Engineering, UPM	Faculty/ University	2014
13.	Postgraduate Symposium on Biocomposite Technology 2015	Best Manuscript	Universiti Putra Malaysia	University	2015
14.	Book of Success of ITI Graduate, Industrial Training Institutions (ITI's)	Student's Icon	Department Of Manpower, Ministry of Human Resources Malaysia	National	2015
15.	Excellent Award	Excellent Service2015 (97.75)	Universiti Putra Malaysia	University	2015
16.	Excellent Award	Excellent Service2016 (99)	Universiti Putra Malaysia	University	2016
17.	Excellence in Teaching Award	Excellence in Teaching Award	Faculty of Engineering, UPM	Faculty/ University	2016
18.	Exhibition of Inventions, Research and Innovations	Silver Medal for Protective BallisticHelmet	Universiti Putra Malaysia	University	2016
19.	Elsevier Reviewer	Recognized Award	CompositeStructures	International	2017

	Recognition				
20.	Excellent Award	Excellent Service2017	Universiti Putra Malaysia	University	2017
21.	Special Lecturer Award 2017	Research and Innovation Category	Faculty of Engineering, UPM	Faculty/ University	2017
22.	Excellence in Teaching Award	Excellence in Teaching Award	Faculty of Engineering, UPM	Faculty/ University	2017
23.	Presidential Award of Excellence	Most Improved Technical Division	The Institution of Engineers Malaysia (IEM)	International	2018
24.	Leaders in Innovation Fellowship (LIF) Newton Fund	Third Place in final international pitch session	Royal Academy of Engineering's Leaders in Innovation Fellowships	International	2018
25.	International MED Conference 2018	Silver Medal	Massive Open Online Course (MOOC)	International	2018
26.	Excellent Service Award	Excellent Service Award	Universiti Putra Malaysia (UPM)	University	2018
27.	29th International Invention, Innovation & Technology Exhibition 2018	Silver Medal for Briquette/Biofuel Pellet from Napier Grass Fiberand Organic Substance	ITEX 2018	International	2018
28.	High Impact Industry and Community Network Award 2018	High Impact Industrial Project: MOU between UPM and AIRBUS Helicopters	Universiti Putra Malaysia (UPM)	University	2018
29.	High Impact Industry and Community Network Award 2018	High Impact Industrial Project: Mathematics Enrichment Program with Malaysian National News Agency (BERNAMA)	Universiti Putra Malaysia	University	2018
30.	Putra Innocreative Award	Best Putra MOOC	Putra Innocreative Carnival in Teaching and Learning 2018	University	2018
31.	Best Paper Award	Best Students PaperAward	International Conference on Aeronautics Astronautics & Aviation (ICAAA 2018)	International	2018
32.	Innovation and Appreciation Program 2018	Excellence in Teaching Award (Postgraduate) Semester 12018/2019 Department of Aerospace	Faculty of EngineeringUniversiti Putra Malaysia	Faculty/ University	2018

33.	Innovation and Appreciation Program 2018	Excellence in Teaching Award (Undergraduate) Semester 12018/2019 Department of Aerospace	Faculty of EngineeringUniversiti Putra Malaysia	Faculty/ University	2018
34.	Innovation and Appreciation Program 2018	Excellence in Teaching Award (Postgraduate) Semester 22017/2018 Department of Aerospace	Faculty of EngineeringUniversiti Putra Malaysia	Faculty/ University	2018
35.	Innovation and Appreciation Program 2018	Excellence in Teaching Award (Postgraduate) Semester 2 2017/2018 Department of Biology and Agriculture Engineering	Faculty of EngineeringUniversiti Putra Malaysia	Faculty/ University	2018
36.	Innovation and Appreciation Program 2018	Excellence in Teaching Award (Undergraduate) Semester 22017/2018 Department of Aerospace	Faculty of EngineeringUniversiti Putra Malaysia	Faculty/ University	2018
37.	Innovation and Appreciation Program 2018	Research and Innovation Excellence Award 2018	Faculty of EngineeringUniversiti Putra Malaysia	Faculty/ University	2018
38.	Elsevier Reviewer Recognition	Recognized Award	Journal of Composites Part B	International	2018
39.	Elsevier Reviewer Recognition	Outstanding Award	Measurement	International	2018
40.	Elsevier Reviewer Recognition	Recognized Award	Polymer Testing	International	2018
41.	Poster Exhibition (Community Project) JINM Showcase 2019	Certificate of Participation	Universiti Putra Malaysia	University	2019
42.	Elsevier Reviewer Recognition	Recognized Award	Composites Communications	International	2019
43.	SIRIM Invention, Innovation & Technology Expo 2019	Bronze Medal: Foot/Ankle Rehabilitation Actuatedby Shape Memory Alloy(SMA)	SIRIM	National	2019
44.	SIRIM Invention, Innovation & Technology Expo 2019	Bronze Medal: Hand/Finger Rehabilitation using Shape Memory Alloy(SMA)	SIRIM	National	2019
45.	SIRIM Invention, Innovation & Technology Expo 2019	Bronze Medal: Low Cost Hand/Finger Rehabilitation Device using Body Ergonomics for Physiotherapy	SIRIM	National	2019

46.	Elsevier Reviewer Recognition	Recognized Award	Chemical Engineering Journal	International	2019
47.	Elsevier Reviewer Recognition	Recognized Award	Journal of Materials Research and Technology	International	2019
48.	Elsevier Reviewer Recognition	Recognized Award	International Journal of Mechanical Sciences	International	2019
49.	Innovation Technology Expo 2019 (INTEX 2019)	Gold Award Project: Putra UAV: Bio- degradable Natural FiberComposite Material	INTEX 2019	National	2019
50.	Innovation Technology Expo 2019 (INTEX 2019)	Gold Award Project: Innovative Pineapple leaves Fiber ExtractionBlade for Extraction Machine	INTEX 2019	National	2019
51.	Elsevier Reviewer Recognition	Recognized Award	Materials Today Communications	International	2019
52.	Elsevier Reviewer Recognition	Recognized Award	Defence Technology	International	2019
53.	Elsevier Reviewer Recognition	Recognized Award	Composites Science and Technology	International	2019
54.	Elsevier Reviewer Recognition	Recognized Award	Materials Today: Proceedings	International	2019
55.	2nd Digitalised International Invention, Innovation and Design Johor, 2019 (DIID JOHOR 2019)	Gold Medal for Project: Putra UAV: SustainableMaterial Recreational UAV	Johor 2019: Digitalising The Malaysian Innovation	National	2019
56.	2nd Digitalised International Invention, Innovation and Design Johor, 2019 (DIID JOHOR 2019)	Gold Medal for Project: Advance Pineapple Leaves Fiber ExtractionMachine	Johor 2019: Digitalising The Malaysian Innovation	National	2019
57.	Elsevier Reviewer Recognition	Recognized Award	Mechanics of Materials	International	2019
58.	Elsevier Reviewer Recognition	Recognized Award	Engineering Structures	International	2019
59.	INDES 2019	Gold Medal for Project:Putra UAV: Novel Bio- Degradable Natural Fiber Composite Material	Ipoh International Summit on Professionalism, Research and Education 2019	International	2019

			(INSPIRED)		
60.	INDES 2019	Diamond Award for Project: Innovatory Pineapple Leaves Fiber Extraction Blade for Fiber Extraction Machine	Ipoh International Summit on Professionalism, Research and Education 2019 (INSPIRED)	International	2019
61.	INDES 2019	Best of The Best Award (Category B; Students of Higher Learning Institution) for Project: Innovatory Pineapple Leaves Fiber Extraction Blade for Fiber Extraction Machine	Ipoh International Summit on Professionalism, Research and Education 2019 (INSPIRED)	International	2019
62.	INDES 2019	Best of The Best Award (Science, Engineering & Technology) for Project: Innovatory Pineapple Leaves Fiber ExtractionBlade for Fiber Extraction Machine	Ipoh International Summit on Professionalism, Research and Education 2019 (INSPIRED)	International	2019
63.	INDES 2019	Best in Theme (Science, Engineering & Technology) for Project: Innovatory Pineapple Leaves Fiber Extraction Blade for Fiber Extraction Machine	Ipoh International Summit on Professionalism, Research and Education 2019 (INSPIRED)	International	2019
64.	INDES 2019	Gold Medal for Project: Innovatory Pineapple Leaves Fiber ExtractionBlade for Fiber Extraction Machine	Ipoh International Summit on Professionalism, Research and Education 2019 (INSPIRED)	International	2019
65.	INDES 2019	Gold Medal (Science, Engineering & Technology) for Project:Innovatory Pineapple Leaves Fiber ExtractionBlade for Fiber Extraction Machine	Ipoh International Summit on Professionalism, Research and Education 2019 (INSPIRED)	International	2019
66.	Karnival Inovasi UTEMEX 2019	Gold Award Winner for project: Innovatory Pineapple Leaves FiberExtraction Blade	Universiti Teknikal Melaka	National	2019
67.	Karnival Inovasi UTEMEX 2019	Special Award Winner for project: Putra UAV: Novel Bio-Degradable Natural Fiber Composite	Universiti Teknikal Melaka	National	2019
68.	Karnival Inovasi UTEMEX 2019	Gold Award Winner for project: Putra UAV: Novel Bio-Degradable Natural Fiber Composite	Universiti Teknikal Melaka	National	2019
69.	Selangor Research, Development and Innovation Expo	Top winner of the Machines & Equipment Cluster (University / College Category) whichentailed a prize worth RM10,000 for project: Innovatory Pineapple	Kerajaan Negeri Selangor	National	2019

		Leaves Fiber Extraction Blade for Fiber Extraction Machine			
70.	Engineering Innovation & Exhibition	Innovation Awards" Silver Award for Innovatory Pineapple Leaves Fiber ExtractionBlade for Fiber Extraction Machine	Universiti Putra Malaysia	National	2019
71.	Engineering Innovation & Exhibition	Innovation Awards" Silver Award for PutraUAV: Novel Bio- Degradable Natural Fiber Composite Material	Universiti Putra Malaysia	National	2019
72.	Excellent Service Award	Excellent Service Award	Universiti Putra Malaysia (UPM)	University	2019
73.	Reviewer Recognition	Star Reviewer	Defence Technology	International	2020
74.	Malaysia Technology Expo 2020 (MTE2020)	Invention and Innovation Silver Award for Category "Machinery, Equipment and Tools Heavy Equipment's, Industrial Machinery" for project "Innovatory Pineapple Leaves Fiber Extraction Blade for Fiber Extraction Machine"	The 19th International Expo on Inventions and Innovations	International	2020
75.	Malaysia Technology Expo 2020 (MTE2020)	Invention and Innovation Bronze Award for Category "Aviation and Transportation" for project "Putra UAV: Novel Bio-Degradable Natural Fiber CompositeMaterial"	The 19th International Expo on Inventions and Innovations	International	2020
76.	Elsevier Reviewer Recognition	Recognized Award	Ceramics International	International	2020
77.	Elsevier Reviewer Recognition	Recognized Award	Composites Science and Technology	International	2020
78.	Elsevier Reviewer Recognition	Recognized Award	Engineering Failure Analysis	International	2020
79.	Elsevier Reviewer Recognition	Recognized Award	Polymer Testing	International	2020
80.	Elsevier Reviewer Recognition	Recognized Award	Engineering Science and Technology, an International Journal	International	2020
81.	Elsevier Reviewer Recognition	Recognized Award	Engineering Structures	International	2020
82.	Elsevier Reviewer Recognition	Recognized Award	Solid State Sciences	International	2020
83.	Elsevier Reviewer	Recognized Award	Materials Letters	International	2020

	Recognition				
84.	5th International Invention Innovation Competition In Canada, Ican 2020	Philippine Gold Award for Invention for project: Innovative Pineapple Leaves Fiber Extraction Blade For Fiber Extraction Machine fromManila Young Inventors Association	5th International Invention Innovation Competition In Canada, Ican 2020	International	2020
85.	5th International Invention Innovation Competition In Canada, Ican 2020	Special Award for project: Innovative Pineapple Leaves FiberExtraction Blade For Fiber Extraction Machine; from Toronto International Society of Innovation & AdvancedSkills (TISIAS)	5th International Invention Innovation Competition In Canada, Ican 2020	International	2020
86.	5th International Invention Innovation Competition In Canada, Ican 2020	Gold Medal for project: Innovative Pineapple Leaves Fiber ExtractionBlade For Fiber Extraction Machine	5th International Invention Innovation Competition In Canada, Ican 2020	International	2020
87.	5th International Invention Innovation Competition In Canada, Ican 2020	Special Award for project: Putra UAV: Novel Bio-Degradable Natural Fiber CompositeMaterial for Unmanned Aerial Vehicle Mainframe; from Toronto International Society of Innovation & Advanced Skills (TISIAS)	5th International Invention Innovation Competition In Canada, Ican 2020	International	2020
88.	5th International Invention Innovation Competition In Canada, Ican 2020	Jurys Choice Award for project: Putra UAV: Novel Bio-Degradable Natural Fiber CompositeMaterial for Unmanned Aerial Vehicle Mainframe	5th International Invention Innovation Competition In Canada, Ican 2020	International	2020
89.	5th International Invention Innovation Competition In Canada, Ican 2020	Gold Medal for project:Putra UAV: Novel Bio- Degradable Natural Fiber Composite Material for UnmannedAerial Vehicle Mainframe	5th International Invention Innovation Competition In Canada, Ican 2020	International	2020
90.	Reviewer Recognition	Reviewer Recognition	Tribology in Industry	International	2020
91.	31st International Invention & Innovation Exhibition 2020 (ITEX 2020)	Gold Medal for project: Pineapple Leaves Fiber Extraction Blade for Extractor Machine	31st International Invention & Innovation Exhibition 2020 (ITEX 2020)	International	2020

92.	31st International Invention & Innovation Exhibition 2020 (ITEX 2020)	Silver Medal for project: Putra UAV: Novel Bio-degradable Natural Fiber Composite Material for Unmanned Aerial Vehicle Mainframe	31st International Invention & Innovation Exhibition 2020 (ITEX 2020)	International	2020
93.	Top Research Scientists Malaysia (TRSM)	Top Research Scientists Malaysia (TRSM)	The Academy of Sciences Malaysia (ASM)	National	2020
94.	10th World Invention Creativity Olympic (WICO 2021)	Special Award for project: Putra UAV: Bio-degradable Natural Fiber Composite Material,	Toronto International Society of Innovation and Advanced Skill	International	2021
95.	10th World Invention Creativity Olympic (WICO 2021)	Gold Medal for project: Putra UAV: Bio-degradable Natural Fiber Composite Material	Korea University Invention Association	International	2021
96.	Penang International Invention, Innovation and Design (PIID 2021)	Gold Medal for project: Pineapple Leaves Fiber Extraction Blade for Extractor Machine	-	International	2021
97.	10th World Invention Creativity Olympic (WICO 2021)	Gold Medal for project: Pineapple Leaves Fiber Extraction Blade for Extractor Machine	Korea University Invention Association	International	2021
98.	10th World Invention Creativity Olympic (WICO 2021)	Special Award for project: Pineapple Leaves Fiber Extraction Blade for Extractor Machine	World Invention Intellectual Property Associations (WIIPA)	International	2021
99.	4th Defence, Security and Sustainability Exhibition 2022 (DSS 2022)	Gold - Pineapple Leaves Fiber Extraction Blade for Extractor Machine	National Defence University of Malaysia (UPNM)	National	2022
100.	4th Defence, Security and Sustainability Exhibition 2022 (DSS 2022)	Gold – Putra UAV: Bio-degradable Natural Fiber Composite Material	National Defence University of Malaysia (UPNM)	National	2022
101.	Anugerah Buku Negara	Kategori Perdana: Kepimpinan Penerbit Pengajian Tinggi	Yayasan Pembangunan Buku Negara	National	2022
102.	National Invention & Innovation Competition	Gold - Pineapple Leaves Fiber Extraction Blade for Extractor Machine	Universiti Tun Hussein Onn Malaysia	National	2022

	Exhibition 2022 (Niice 2022)				
103.	National Invention & Innovation Competition Exhibition 2022 (Niice 2022)	Gold – Putra UAV: Bio-degradable Natural Fiber Composite Material	Universiti Tun Hussein Onn Malaysia	National	2022
104.	National Invention & Innovation Competition Exhibition 2022 (Niice 2022)	Special award - Pineapple Leaves Fiber Extraction Blade for Extractor Machine	Universiti Tun Hussein Onn Malaysia	National	2022
105.	National Invention & Innovation Competition Exhibition 2022 (Niice 2022)	Special award – Putra UAV: Bio-degradable Natural Fiber Composite Material	Universiti Tun Hussein Onn Malaysia	National	2022

Professional Services/Consultation/Collaboration

No.	Year	Title	Authority	Amount
1.	2012	Single Stage Gas Gun for Engineering Material Laboratory, Faculty of Process and Manufacturing, Universiti Malaysia Pahang	ZKK Sdn. Bhd.	RM413,000
2.	2014	Centre for Aerospace Design Sdn. Bhd.	UniKL, MIAT	RM3,000
3.	2014	Railway Wheel Crack Detection	MASDAR Technologies	RM 300,000
4.	2014	Bamboo Slicer Machine	ZKK Sdn. Bhd.	RM 30,000
5.	2015	Innovative Structural Health Monitoring (SHM) System Capable of Detecting, Localizing and Characterizing Damages InBio-Based Composite Aircraft Structures	ZKK Sdn. Bhd.	RM 150,000
6.	23 Nov 2015 – 2 Dec 2015	Experimental & Computational Analysis of Composite Structures	Aeronautical Research Centre (ARC) Sudan	RM 60,000
7.	2015	Non-Destructive Testing Facilities Between AMRC and CUAT Algeria	Centre Universitaire Ain Temouchent – CUAT	RM 10,000
8.	2015	Non-Disclosure Agreement (NDA) Between UPM and PROTON	Universiti Putra Malaysia (UPM) and PROTON (In Kind)	RM 556,800
9.	2016	Collaboration and Utilization of Bio Composite Laboratory & Testing	Centre for Composite (CfC),	RM 5,000

		Facility for University Research at AMRC UPM	UTM	
10.	24 Apr 2017	Mathematics Enrichment Program	BERNAMA News Channel	RM100,000
11.	26 Apr 2017	MoU with Airbus Helicopter Malaysia Sdn Bhd	Universiti Putra Malaysia	Aircraft piston engine worth USD 30000 + RM50,000 = RM176,000
12.	1 July 2017-30 June 2020	Collaboration for project 'Modelling and Analysis of Lap Joints of Basalt-Carbon/Epoxy Hybrid Composite Laminates Subjected to Impact Loading' Institute of Technology PETRONAS Sdn Bhd	Universiti Teknologi Petronas (UTP)	RM 4,800
13.	2017	Mathematics Enrichment Program	BERNAMA Radio	RM50,000
14.	11 June 2018	Natural fibre panel for MUDAS	MUDAS	RM4,000
15.	18 Nov 2019	Industrial Contribution	Eco Premium Packaging	RM2,720,000
16.	January 2021	Non-Disclosure Agreement (NDA) Between UPM and Penchem Technologies Sdn. Bhd	Penchem Technologies Sdn. Bhd	-
17.	February 2022	Letter of Acceptance (LoA)	AECA Solutions Sdn Bhd	-
18.	March 2022	Non-Disclosure Agreement (NDA) Between UPM and Eminence Five Aquaponics Sdn Bhd	Eminence Five Aquaponics Sdn Bhd	-
19.	2020-2022	Geran Penjana HRDS: Program Latihan Pertanian Bandar	UPM & Koperasi KEBUNITI Selangor Berhad	RM1,250,000

Student Supervisions, Post-Graduates (MSc and PhD)

Doctor of Philosophy

No.	Name of Students	Status (Completed/Ongoing)	Year Graduated
1.	Parnia Zaki Khani	Completed	2016
2.	Nawras Haidar Mostafa Al-Said Haidar	Completed	2017
3.	Mohaiman Jaffar Kashkol	Completed	2017
4.	Suhad Dawood Salman	Completed	2017
5.	Ibrahim Mohammed	Completed	2018
6.	Umran bin Abdul Rahman	Completed	2018
7.	Ain Umaira binti Md. Shah	Completed	2018
8.	Syafiqah Nur Azrie Bt Safri	Completed	2019
9.	Naveen Jesu Arockiam	Completed	2019
10.	Lau Kia Kian	Completed	2019
11.	Siti Madiha binti Muhammad Amir	Completed	2019
12.	Tabrej Khan	Completed	2020
13.	Chee Siew Sand	Completed	2020
14.	Nik Syamsul Bahari bin Che Yusof	Completed	2020
15.	Ernnie Illyani binti Basri	Completed	2020
16.	Noor Azammi b. Abd Murat	Completed	2020
17.	Noorshazlin binti Razali	Completed	2021
18.	Muhamad Hasfanizam bin Mat Yazik	Completed	2021

19.	Al Behadili Ali Kareem Hilo	Completed	2021
20.	Albuhamdan Sadeq Salman Abed	Completed	2021
21.	Tamil Moli a/p Loganathan	Completed	2022
22.	Farah Syazwani binti Shahar	Completed	2022
23.	Muhammad Imran Bin Najeeb	Completed	2022
24.	Suhas Yeshwant Nayak (*Manipal University)*	Completed	2022
25.	Elias Randjbaran	Ongoing	-
26.	Murniwati binti Anwar	Ongoing	-
27.	Farah Hanan binti Abd Malek	Ongoing	-
28.	Nur Marini binti Zainal Abidin	Ongoing	-
29.	Nor Izaida binti Ibrahim	Ongoing	-
30.	Tai Jan Lean	Ongoing	-
31.	Xiao Hanyue	Ongoing	-
32.	Norrahim bin Abu Bakar	Ongoing	-
33.	Thinesh Sharma a/l Balakrishnan	Ongoing	-
34.	Safdari Zahra	Ongoing	-
35.	Abotbina Walid A. M.	Ongoing	-
36.	Ho Choon Sin *(Universiti Tun Hussien Onn Malaysia)*	Ongoing	-
37.	Mohd Fairuz Bin Alias (*Universiti Tun Hussien Onn Malaysia)*	Ongoing	-

MSc with Thesis

No.	Name of Students	Status (Completed/Ongoing)	Year Graduated
1.	Ahsan Nur Mubarak Zahari @ Annuar	Completed	2013
2.	Lim Keng Teek	Completed	2015
3.	Syafiqah Nur Azrie bt Safri	Completed	2015
4.	Noorshazlin binti Razali	Completed	2015
5.	Qistina binti Mohd Jamal	Completed	2017
6.	Khairul Izwan bin Ismail	Completed	2018
7.	Ariff Farhan bin Mohd Nor	Completed	2018
8.	Ahmad Mustafa bin Rayney Azmi	Completed	2018
9.	Ahmad Safwan bin Ismail	Completed	2019
10.	Tay Chai Hua	Completed	2019
11.	Muhammad Faizzuddin bin Ismail	Completed	2019
12.	Muhammad Fitri bin Mohd Zulkeple	Completed	2020
13.	Ali Ahmad bin Mazlan	Completed	2021
14.	Seri Nur Zumaimi Binti Zainal Abidin	Completed	2021
15.	Yasir Khaleel Ibrahim Kermasha	Completed	2021
16.	Nur Nabillah binti Mohd Kamal	Ongoing	-
17.	Mohammad Azeem *(Universiti Malaysia Pahang)*	Ongoing	-

MSc without Thesis

No.	Name of Students	Remarks	Year Graduated
1.	Muhammad Nor Hakim Bin Mohd Arif	Main Supervisor	2016
2.	Nadhira Fathiah Binti Kamarulzaman	Main Supervisor	2017
3.	Farah Syazwani Binti Shahar	Main Supervisor	2018
4.	Ismail A M Alfarra	Main Supervisor	2019

Student Supervisions, Undergraduates

Bachelor Degree

No.	Name of Students	Remarks	Year Graduated

1.	Noorshazlin Bt. Razali	Main Supervisor	2012
2.	Khairina Hafizah Bt. Ramlan	Main Supervisor	2013
3.	Chan Teng Yan	Main Supervisor	2014
4.	Syafiq Syahmi B. Sazali	Main Supervisor	2014
5.	Muhammad Faizzuddin Bin Ismail	Main Supervisor	2015
6.	Ariff Farhan Bin Mohd Nor	Main Supervisor	2016
7.	Ahmad Mustafa Bin Rayney Azmi	Main Supervisor	2016
8.	Muhammad Hafizal Bin Hamidon	Main Supervisor	2017
9.	Ali Ahmad Mazlan	Main Supervisor	2018
10.	Abeeb Fajobi Olamilekan	Main Supervisor	2019
11.	Nurul Amirah	Main Supervisor	2019
12.	Vikneswari Sanmuham	Main Supervisor	2020
13.	Tevendrant Chandran	Main Supervisor	2021
14.	Thinesh Sharma Balakrishnan	Main Supervisor	2021
15.	Muhammad Izham bin Mohd Mokhtar	Main Supervisor	Ongoing
16.	Previndran A/L Guinda Rajoo	Main Supervisor	Ongoing
17.	Navaneetha Krishna Chandran	Main Supervisor	Ongoing

Student Examination (Internal/External Examiner/Chairman)

Doctor of Philosophy

No.	Name of Students	Title	Year
1.	Mr. R. Kamalakannan *(Anna University - India)* ***International Level***	Cell Formation With Real Time Production FactorsUsing Swarm Intelligence (EXTERNAL EXAMINER)	2017
2.	Prenesh Krishnan Ragunathan *(Universiti MalaysiaPerlis – UniMAP)* ***National Level***	Performance of Glass Fibre Reinforced Epoxy (GRE)Composite Pipes Under Various Stress Ratios, Winding Angles and Aging Conditions (EXTERNAL EXAMINER)	2017
3.	Mr. S. Sundararajan *(Anna University - India)* ***International Level***	Investigation on Tribological Characteristics of Self Lubricated Copper Hybrid Composites by Solid StateBlending Technique (EXTERNAL EXAMINER)	2018
4.	Mr. T. Amuthan *(Anna University -India)* ***International Level***	Performance Analysis on Electrical and Mechanical Properties of Various Natural Fibre ReinforcedComposite Materials (EXTERNAL EXAMINER)	2018
5.	Mr. N. Vijay Ponraj *(Anna University - India)* ***International Level***	Processing, Characterization and Experimental Investigation on Mechanical and Wear Behaviour of Graphene Nanosheet Reinforced Copper Composite (EXTERNAL EXAMINER)	2018
6.	Mr. Subramani P *(Vellore Institute ofTechnology – India)* ***International Level***	Studies on Welding Processes on Metallurgical, Mechanical and Hot Corrosion Behavior of Aerospace 80A Grade Alloy (EXTERNAL EXAMINER)	2019
7.	Mr. T Prem SinghInbaraj *(Anna University -India)* ***International Level***	A Study on Green Supply Chain Practices and Performance of Third Party Logistics (3PL) Industry in India (EXTERNAL EXAMINER)	2019
8.	Ahmad Syayuthi BinAbdul Rahman *(Universiti Malaysia Perlis – UniMAP)* ***National Level***	Fatigue Analysis of GFRE Composites And Aircraft Flat Panel Under Various Stress Ratios And Notch Design	2019

		(EXTERNAL EXAMINER)	
9.	Munerah A B S Faraj *(Universiti Putra Malaysia)* ***National Level***	Study on air Ventilation Syatem Based on CFD Simulation for the Hospital Operation Theater in Kuwait (INTERNAL EXAMINER)	2019
10.	Chandrasekar Muthukumar *(Universiti PutraMalaysia)* ***National Level***	Experimental Investigation on the Mechanical Properties of Fibre Metal Laminates with Carbon, Flax and Sugar Palm Fibre Based Composites for Aerospace Applications (INTERNAL EXAMINER)	2019
11.	Sujith Bobba *(Universiti Putra Malaysia)* ***National Level***	Mechanical Properties Of S-Glass And E-Glass Reinforced Epoxy Composite Elbow Pipe Joints Submerged In Sea Water (INTERNAL EXAMINER)	2019
12.	Ahmad A H S Shirazi *(Universiti Putra Malaysia)* ***National Level***	Application Of Wireless Structural Health MonitoringSystem On Oil And Gas Pipelines (INTERNAL EXAMINER)	2019
13.	Giddaluri RanjithKumar *(Vellore Institute Of Technology, VIT)* ***International Level***	Characterization and Corrosion Studies of TI6AL4V Through Simulation Based Optimized Laser PeeningProcess (EXTERNAL EXAMINER)	2020
14.	Sabah Salim Hamzah (*Universiti Tun Hussein Onn Malaysia)* ***National Level***	Crashworthiness Characteristic of Jute and Hybrid Jute-Glass Fibres Reinforced Epoxy 2Tubes Under Quasi Static Loading Condition (EXTERNAL EXAMINER)	2020
15.	Nur Liyana BintiMohamad Hafiz *(Universiti Putra Malaysia)* ***National Level***	Hybrid Woven Kenaf/Kevlar Reinforced with TanninPhenolic Adhesive as Matrix (INTERNAL EXAMINER)	2020
16.	Abubakar Bala *(Universiti Teknologi Petronas)* ***National Level***	Metaheuristic Algorithm based Optimization of Echo State (EXTERNAL EXAMINER)	2021
17.	Chua Yaw Long *(Universiti Pendidikan Sultan Idris)* ***National Level***	Network for fault Prediction in Aircraft Engines Development of Creative Thinking Module for Mechanical Design Process (EXTERNAL EXAMINER)	2021
18.	Nur Hidayah bt Ahmad Zaidi *(Universiti Malaysia Perlis)* ***National Level***	The Aging Behavior of Mg-AL-Zn (AZ91) and AZ91 Reinforced Carbon Nanotube (EXTERNAL EXAMINER)	2021
19.	K.M. John *(Kalasalingam Academy of Research and Education)* ***International Level***	Strategy To Produce Damage-Free Drilling In CFRP Composite (EXTERNAL EXAMINER)	2021
20.	Prem Shankar Kumar *Indian Institute of Technology (Indian School of Mines), Dhanbad* ***International Level***	Condition Monitoring, Intelligent Health Assessment and Residual Life Estimation of Rolling Element Bearing (EXTERNAL EXAMINER)	2021
21.	Intan Irieyana Binti Zulkepli *(International Islamic University-IIUM)* ***National Level***	Study On Impact Behaviour Of Empty Fruit Bunch (Efb) Composite Fabricated Using Light Resin Transfer Molding (LRTM) (EXTERNAL EXAMINER)	2021
22.	Tuan Nurain binti Tuan Rohadi (Universiti Malaysia Perlis)	Development of Characterization of Biodegradable Cellulose Based Plastic Incorporation of *Pennisetum Purpureum*,	2021

	National Level	Chitosan and Gelatine (EXTERNAL EXAMINER)	
23.	Mohd Na'im Bin Abdullah (Universiti Putra Malaysia) ***National Level***	Optimizing Rice Husk Ash Based Aluminosilicate Fire Retardant Additive as a Passive Fire Protection Material (INTERNAL EXAMINER)	2021
24.	Anton Savin Lewise K. *Noorul Islam Centre for Higher Education* ***International Level***	Investigation On Process Parameters for Friction Stir Spot Welding Of Dissimilar Alloys in Aerospace Applications (EXTERNAL EXAMINER)	2022
25.	Che Ku Eddy Nizwan Bin Che Ku Husin *(Universiti Malaysia Perlis)* ***National Level***	Health Monitoring on Composite Structure: A Structural Dynamic Approach (EXTERNAL EXAMINER)	2022
26.	Premkumar T (Kalasalingam Academy of Research and Education) ***International Level***	Investigation on the Basalt Fibre Hybridization on the Mechanical and Tribological Properties of *Caraua* and Basalt Fibre Polyester Composites (EXTERNAL EXAMINER)	2022
27.	Dhilip Kumar T *(Vellore Institutre of Technology)* ***International Level***	Investigation On Design And Development Of Multiscale Reinforced Polymer Composite Lap Joints (EXTERNAL EXAMINER)	2022

MSc

No.	Name of Students	Title	Year
1.	Hayder Abdullah Luaibi Alrazen *(Universiti PutraMalaysia)* ***National Level***	Numerical Simulation of The Effect of Combination of CNG.H2 and Diesel Usage on the 4 Stroke Engine (CHAIRMAN)	2016
2.	Norzarina Binti Ma'at *(Universiti Tun Hussien Onn Malaysia)* ***National Level***	Modeling Dynamic Behavior Including Shockwave Propagation And Spall Failure In Orthotropic Materials (EXTERNAL EXAMINER)	2017
3.	Nurhazwani Binti Othman *(Universiti Putra Malaysia)* ***National Level***	Physical, Mechanical and Morphological Propertiesof Hybrid Particleboard made from Bamboo VeneerWastes (Dendrocalamus Asper) and Rubber Wood (CHAIRMAN)	2017
4.	Nurhanisah bt Mohd Hawari *(Universiti PutraMalaysia)* ***National Level***	Design And Fabrication Of Eco-Friendly Prosthetic Leg Socket Made From Woven Kenaf-Glass Fibre Hybrid Composites (INTERNAL EXAMINER)	2017
5.	Nurul Reffa Azyan Bt Nasrudin *(Universiti PutraMalaysia)* ***National Level***	Effects Of Nanoclay Addition On The Properties Of Rice Husk Ash/Kaolin Based Geopolymer Coating Composite (INTERNAL EXAMINER)	2017
6.	Mohd Nizam Bin Hassan *(Universiti PutraMalaysia)* ***National Level***	The Influence of Stiffener Aluminum PerforatedPlates Subjected to In-Plane Shear Loading (INTERNAL EXAMINER)	2017
7.	Mohd Saffuan Bin Yaakob *(Universiti Putra Malaysia)* ***National Level***	Applications of Auxetic Cell Structure As ImpactAbsorbing Material in Bio-Composite Aero Helmet	2017

		(CHAIRMAN)	
8.	Shahrul Nizam Md Saleh *(Universiti TeknologiPetronas)* ***National Level***	Tensile, Physical and Chemical Characterization ofOleic Acid Post Spinning Treatment on PAN Fibre (EXTERNAL EXAMINER)	2018
9.	Rao Muhammad Shahroze Ali *(Universiti Putra Malaysia)* ***National Level***	Effect of Nanoclay and Silica Aerogel on Mechanical, Thermal and Physical Properties ofSugar Palm Fibre Reinforced Unsaturated PolyesterComposite (INTERNAL EXAMINER)	2018
10.	Afiqah Musa *(Universiti PutraMalaysia)* ***National Level***	Scanning Laser Thermographic Imaging System forNon-Destructive Evaluation of Incipent ThermalDamages in Aerospace Composite Material (INTERNAL EXAMINER)	2018
11.	Farid bin Bajuri *(Universiti PutraMalaysia)* ***National Level***	Impregnation of Nanosilica Into Kenaf Natural Fibreto Reinforce Epoxy Thermoset Resin (CHAIRMAN)	2018
12.	Wan Mohd Azlan BinWan Mohd Nowalid *(Universiti Malaysia Pahang)* ***National Level***	Integration of Chatter Avoidance and Minimum Quantity Lubrication Condition In MachiningProcessing (EXTERNAL EXAMINER)	2019
13.	Mohammed Ragab Ahmed *(Universiti MalaysiaPahang)* ***National Level***	Development of adjustable valve of semi-active damper for improving ride comfort in a passenger car (EXTERNAL EXAMINER)	2019
14.	Muhammad Jabir Bin Suleiman @ Ahmad *(Universiti Putra Malaysia)* ***National Level***	Development of Inconel 718 Parts Produced byMetal Injection Molding (MM) Technique for Aerospace Applications (INTERNAL EXAMINER)	2019
15.	Gan Chia Seng *(Universiti PutraMalaysia)* ***National Level***	Statistically Threshold Anomaly Mapping of Lightning Damages in Glass Fibre Composite Materials for Aerospace Applications (INTERNAL EXAMINER)	2019
16.	Zulkifli Bin Mat Daud *(Universiti Putra Malaysia)* ***National Level***	Conceptual Design of Hoverwing Dragon Fly DF2Control Stick (INTERNAL EXAMINER)	2019
17.	Faris Syahiran Bin Ismail *(Universiti PutraMalaysia)* ***National Level***	Characterisation of Oil Palm Empty Fruit BunchFibres Microcrystalline Cellulose (EFB-MCC) For Potential High Mechanical Strength Paper (INTERNAL EXAMINER)	2019
18.	Awang Hadi Ifwat bin Awang Bujang *(Universiti Islam Antarabangsa Malaysia)* ***National Level***	Investigation of Fizoelectric Actuator Effect on Fracture Toughness of Isotropic Materials (EXTERNAL EXAMINER)	2020
19.	Nur Aqeela Binti Mohd Yussof *(Universiti PutraMalaysia)* ***National Level***	Characterization of blended papers from oil palm empty fruit bunch and citronella as a potential for food packaging materials (CHAIRMAN)	2020
20.	Mohd Hafiezal bin Mohd Radzi *(Universiti PutraMalaysia)* ***National Level***	Hybrid Biocomposite Using Blended Jatropha Bio-Epoxy As Matrix For Interior Aerospace Component (INTERNAL EXAMINER)	2020

21.	Mohd Na'im bin Abdullah *(Universiti PutraMalaysia)* ***National Level***	Enhancing Rice Husk Ash - Based Aluminosilicate Fire Retardant Additive as a Passive Fire Protection Material (INTERNAL EXAMINER)	2021

Intellectual Property

Patent Granted

1. **M.T.H. Sultan**, F.S. Shahar, A.A. Basri. Medical Information Access Device, MyIPO LY2018006915
2. **M.T.H. Sultan,** Cap Dagangan "AMRC", MyIPO TM2019014597 Kelas 42
3. **M.T.H. Sultan**, A.A. Basri, W.R. Alvisse, Unmanned Aerial Vehicle, Industrial Design, 19-01281-0101
4. **M.T.H. Sultan,** Cap Dagangan "PEC", MyIPO TM2019036665 Kelas 10
5. **M.T.H. Sultan,** A.H. Ariffin, A.A. Basri, M.E. Azni, M.I. Najeeb, Rotating blade for natural fiber extraction machine, Patent, PI 2019005430
6. M.Jawaid, Naveen, Edi Sham, **M.T.H.Sultan,** Techno Economic Hard Body Armour", AR2019003399
7. **M.T.H. Sultan,** A.A. Basri, Cap Dagangan "ProfesOD", TM2019042684 Kelas 41

Patent Pending

1. Smart Tray Table
2. Rotating Blade for Natural Fiber Extraction Machine, filing under Patent Cooperation Treaty (PCT)

Potential Buyer/Commecialization Engagement

1. Eastern Tradeventure Sdn Bhd for "Putra UAV" design
2. MPIB for "Rotating Blade"

Attended Seminars/Workshops/Forums both National and International

1. Seminar Workshop New Breakthrough in Modern CFD, August 2011.
2. 8th International Workshop on Structural Health Monitoring, 13-15th September 2011, Stanford University, California, USA.
3. Industry Forum: Route to Commercialisations by Prof. Dr. Shamsuddin Baharin, 24th October 2011, Seminar Hall C, Convention Centre, Centre for University -Industry Collaboration, Universiti Utara Malaysia.
4. 1st Malaysian-German Conference of Education & Training, Malaysia – German Chamber of Commerce and Industry, 3rd November 2011, Crown Plaza Mutiara Hotel, KualaLumpur.
5. ASEM University-Business Forum, Destination Employment, Bonn, Germany, 10 -11th November 2011.
6. Research Methodology Course, Series 3/2011, 25-30th November 2011, Ancasia All Suites Resort & Spa, Port Dickson.
7. 1st National Entrepreneurship Educators Forum (NEEF) 2012, 27 February 2012, Putrajaya, Malaysia.
8. Bengkel Pemantapan Halatuju dan Perancangan Strategik AKEPT Young Researchers Circle (AYRC), Malaysia, 6-8 Mac 2012.
9. Program Health for Malaysia, 18-20th November 2012, Rural Transformation Centre, Terminal Agribisnes Negara, Gopeng, Perak Darul Ridzuan.
10. Seminar Khatib Profesional, Jabatan Agama Islam Selangor, Masjid Negeri Shah Alam, 24 October 2013.
11. MTS Lab Expert Seminar Series: Leveraging Material Testing for Academic Research. April 2014.
12. ASME VII Training (Pressure Vessel Code Simplified), Malaysian Society of Structural Health Monitoring (MSSHM), Universiti Putra Malaysia, 21st to 25th April 2014.
13. Mechanical Characterization of Engineering Materials, Aerospace Manufacturing Research Centre (AMRC), Universiti Putra Malaysia, 22nd to 26th September 2014.

14. Program Jalinan Kasih, Baitul Barokah Wal Mahabah, Sepang, Fakulti Kejuruteraan, UPM, 22 Nov 2014
15. Preconference workshop on Computational Methods for Interdisciplinary Research December 15 – 16, Manipal, India, 2014.
16. 2nd International Symposium on Applied Engineering and Sciences (SAES2014) Kyushu Institute of Technology, Japan, 20th – 21th Dec, 2014.
17. Code of Ethics / Regulations, Board of Engineers Malaysia, Institute of Engineers MalaysiaTraining Centre, 4th to 5th February 2015.
18. Engineering Management Practice, Board of Engineers Malaysia, Institute of Engineers Malaysia Training Centre, 9th to 10th February 2015.
19. Safety & Health At Work, Board of Engineers Malaysia, Institute of Engineers Malaysia Training Centre, 12th to 13th February 2015.
20. Workshop on Dynamic Mechanical Analyzer (DMA), Laboratory of Technology Biocomposite (BIOCOMPOSITE), Universiti Putra Malaysia, 11th March 2015.
21. Professional Engineer Course, Malaysian Society of Agricultural Engineers (MSAE),Universiti Putra Malaysia, 19th March 2015.
22. Convention on Consolidation and Empowerment of Management for Surau's in Selangor,Raja Haji Fisabilillah Mosque Hall, Cyberjaya, 12th November 2015.
23. EAC New Panel Evaluators Workshop, Subang, 14-16 December 2015.
24. Royal Academy of Engineering's **Leaders in Innovation Fellowships** residential programme 2017/2018
25. 3rd Malaysia Super Satellite Campus (MSSC) International Workshop on Engineering & Health Science 2017 Collaboration for Bioengineering, Mechanics & Nano-Materials, Malaysia, 31st January 2017.
26. Kursus Awareness and understanding of MS ISO/IEC 17205:2005. UPM, 27-28 Julai 2017.
27. Program Himpunan Bakat (Kumpulan Akademik) 'Perlembagaan Universiti',UPM, 1 Aug 2017.
28. Program Himpunan Bakat (Kumpulan Akademik) 'Pengurusan Kewangan Universiti',UPM,12 Sept 2017.
29. ETAC Workshop for Panel Evaluators, Subang, 25 September 2017.
30. Workshop on ETAC Self Assessment Report (SAR), Putrajaya, 28-30 October 2017.
31. One Day Workshop: Gap Analysis of The Engineering Accreditation Council Manual 2017,Petaling Jaya, 3 March 2018.
32. One Day Workshop: Gap Analysis of The Engineering Accreditation Council Manual 2017,Petaling Jaya, 3 April 2018.
33. Sustainable ProestEhic Care Solutions Workshop (SPECS 2019), Faculty of EngineeringUniversiti Malaya, 12 March 2019.
34. Bengkel Teknikal "Waste – Natural Fibre Application for Green Composite", INTROP, UPM, 11 February 2020.
35. WEBINAR IN Collaboration with IEM, UPM and KDU, 29 June 2020.

Technical Committee/Paper Reviewer/Session Chairs

International

No.	Name of Activity/ Project/Program	Organiser	Place	Date
1.	Formal Teaching Activities, Supporting Module Leader	The University of Sheffield,United Kingdom	UK	March 2011
2.	Guest Lecture	The University of Sheffield,United Kingdom	UK	23 March 2011

3.	Organizing Committee	AEROTECH IV	Malaysia	2012
4.	Conference Committee (Technical Committee)	AUN/SEED-Net Regional Conference on Mechanical and Manufacturing Engineering	Malaysia	2013
5.	International Reviewer	AUN/SEED-Net Regional Conference on Mechanical and Manufacturing Engineering	Malaysia	2013
6.	Conference Committee (Technical Committee)	International Conference on Advances in Mechanical and Manufacturing Engineering (ICAM2E)	Malaysia	2013
7.	International Reviewer	AUN/SEED-Net Regional Conference on Mechanical and Manufacturing Engineering	Malaysia	2013
8.	Reviewer	AEROTECH V	Malaysia	July 2014
9.	Session Chair	AEROTECH V	Malaysia	Oct 2014
10.	Session Chair	International Conference on Computational Methods in Engineering & Health Sciences	India	Dec 2014
11.	Head of Sponsorship	AEROTECH VI	Universiti Putra Malaysia, UPM	17 Nov 2015 to 16 Nov 2016
12.	Reviewer	International Conference on Computational Methods in Engineering && Health Sciences (ICCMEH:2015)	Universiti Putra Malaysia, UPM	2015
13.	Head of Sponsorship	International Conference on Computational Methods in Engineering && Health Sciences (ICCMEH:2015)	Universiti Putra Malaysia, UPM	2015
14.	Session Chair	International Conference on Computational Methods in Engineering && Health Sciences (ICCMEH:2015)	Universiti Putra Malaysia, UPM	2015
15.	Judge	Prodex 2016	Malaysia	29 Dec 2016
16.	Judge	INOTECH 2016	Malaysia	18 Aug 2016
17.	Converner	Wood and Biofiber International Conference 2017 (WOBIC2017)	Malaysia	2017
18.	Judge	Wood and Biofiber International Conference 2017 (WOBIC2017)	Malaysia	21 Nov 2017– 23 Nov 2017
19.	Judge	InoTech 2017	Malaysia	7 Sept 2017
20.	Judge for 3 Minute Competition	UNITEN	Malaysia	27 March 2018
21.	Judge	PRODEX 2018	Malaysia	10 Jan 2018
22.	Chairman of Organizing Committee	1st International Conference on Safe Biodegradable Packaging Technology (SafeBiopack 2018)	MiGHT Partnership Hub, Cyberjaya, Malaysia	2018
23.	Deputy Chairman of Steering Committee	1st International Conference on Safe Biodegradable Packaging Technology (SafeBiopack 2018)	MiGHT Partnership Hub, Cyberjaya,	2018

			Malaysia	
24.	Conference Committee (Technical Committee)	6th International Conference on Space Science and Communication (IconSpace2019)	Malaysia	28 July 2019 - 30 July 2019
25.	Judge	INOTECH 2019	Malaysia	13 March 2019
26.	Judge	ProDex 2019	Malaysia	3 Jan 2019
27.	Co-chairman	International Symposium on Composite and Nanocomposite Materials 2019 (Isymposite I, 2019)	Rabat, Morocco	8 April 2019 - 10 April 2019
28.	Chairman Session	International Symposium on Composite and Nanocomposite Materials 2019 (Isymposite I, 2019)	Rabat, Morocco	8 April 2019 – 10 April 2019
29.	Organizing Committee	International Symposium on Composite and Nanocomposite Materials 2019 (Isymposite I, 2019)	Rabat, Morocco	8 April 2019 – 10 April 2019
30.	Session Chairman	2nd Wood & Biofibre International Conference (WOBIC2019)	Sabah, Malaysia	3 Dec 2019 - 5 Dec 2019
31.	Steering Committee Member	2nd Wood & Biofibre International Conference (WOBIC2019)	Sabah, Malaysia	3 Dec 2019 - 5 Dec 2019
32.	Judge	Crown Prince CIPTA Award Competition 2020/2021	Universiti Teknologi Brunei	2021

National

No.	Name of Activity/ Project/Program	Organiser	Place	Date
1.	Session Chair for Seminar Workshop	NUMIT Enterprise	Malaysia	Aug 2011
2.	Committee Member for AKEPT Young Researchers Circle Conference & Exhibition	Ministry of Higher Education, Malaysia	Malaysia	2011
3.	Committee Member for Industrial Academy Consultative Council Meeting	Ministry of Higher Education,Malaysia	Malaysia	2012
4.	Session Chair	Malaysia Workshop of Structural Health Monitoring(MSSHM)	Malaysia	2013
5.	Contract Lecturer	ADMAL Aviation College	Sepang, Malaysia	July 2013
6.	Guest Lecture/Trainer	Universiti Malaysia Pahang (UMP), Malaysia	UMP, Malaysia	Oct 2013
7.	Committee Memberof Sydney Accord and Dublin Accord	Board of Engineer Malaysia	Malaysia	Aug 2016
8.	Joint Researcher for 'Empowering the interest of orphaned school students in Science and Mathematics knowledge through	ANGKASA, UKM	Malaysia	February 2017

	Helicopter's Intelligent Control			
9.	Final Year Student Project Evaluation Panel	UKM	Malaysia	25 May 2017
10.	MyGrants FRGS Evaluation Panel	UPSI	Malaysia	2017
11.	Working Group onLicense Aircraft Maintenance Qualifications (Member)	Board of Engineer Malaysia	Malaysia	March 2018
12.	Chief Program Coordinator for National Science Week	Ministry of Energy, Science, Technology, Environment and Climate Change	Malaysia	15 July 2019 – 15 Aug 2019
13.	Advisor for PutraRimba Rimbun Programme	SISFEC & INTROP UPM	Malaysia	6 Nov 2019
14.	Member of WorkingGroup on BEM Policy on Registration as Engineer Technologist/ Inspector of Works/Graduate Engineer& Sit for Professional Assessment Examination and Professional Competency Examination	Board of Engineer Malaysia	Malaysia	Dec 2019
15.	Project Director for the HRDF Training Program	Koperasi Kebuniti Selangor Berhad (KOBUNITI)	Malaysia	2020

Journal Reviewer/Editor

No.	Name of Activity/ Project/Program	Organiser	Place	Date
1.	Journal Reviewer	Journal of Composite Part (B)	International	2013
2.	Journal Reviewer	Engineering Failure Analysis	International	2013
3.	Journal Reviewer	Journal of Composite Part (B)	International	2013
4.	Advisory Board Member	International Journal of Modern Trends in Engineering and Science	India	2014
5.	Journal Reviewer	Applied Mechanics and Materials	International	2014
6.	Journal Reviewer	Modern Applied Science	International	2014
7.	Journal Reviewer	Pertanika: Journal Science and Technology	Malaysia	2015
8.	Editorial Member	International Journal on Engineering &Technology	Malaysia	2016
9.	Journal Reviewer	AIP Conference Proceeding	International	2017
10.	Journal Reviewer	Journal of Composite Structures	International	2017
11.	Journal Reviewer	Journal of Composite Part (B)	International	2018
12.	Journal Reviewer	Journal of Thermoplastic Composite Materials	International	2018
13.	Journal Reviewer	Aerospace Science and Technology	International	2018
14.	Journal Reviewer	Measurement	International	2018
15.	Journal Reviewer	Polymer Testing	International	2018
16.	Journal Reviewer	Journal of the Industrial Textile	International	2018
17.	Journal Reviewer	Process Safety and Environmental Protection	International	2019
18.	Journal Reviewer	Composites Communications	International	2019
19.	Journal Reviewer	International Journal of Mechanical Sciences	International	2019

20.	Journal Reviewer	Chemical Engineering Journal	International	2019
21.	Journal Reviewer	Journal of Materials Research and Technology	International	2019
22.	Journal Reviewer	Defence Technology	International	2019
23.	Journal Reviewer	Materials Today Communications	International	2019
24.	Journal Reviewer	Materials Today: Proceedings	International	2019
25.	Journal Reviewer	Composites Science and Technology	International	2019
26.	Journal Reviewer	Engineering Structures	International	2019
27.	Journal Reviewer	Mechanics of Materials	International	2019
28.	Journal Editor/Editor in Chief	Research on Engineering Structures and Materials	International	2019
29.	Journal Editor	International Journal of Recent Engineering and Technology	International	2019
30.	Journal Reviewer	Polymer Composites	International	May 2019
31.	Journal Reviewer	Journal of Reinforced Plastics and Composites	International	April 2019
32.	Journal Reviewer	Journal of Reinforced Plastics and Composites	International	Jun 2019
33.	Journal Reviewer	Journal of Composite Materials	International	Sept 2019
34.	Journal Reviewer	Journal of Engineered Fibre and Fabric	International	Nov 2019
35.	Journal Reviewer	Polymer Composites	International	Nov 2019
36.	Journal Reviewer	Polymer Composites	International	Nov 2019
37.	Journal Reviewer	Journal of Applied Polymer Science	International	Dec 2019
38.	Journal Reviewer	Polymer Composites	International	Jan 2020
39.	Journal Reviewer	Polymer Composites	International	Jan 2020
40.	Journal Reviewer	Journal of Reinforced Plastics and Composites	International	April 2020
41.	Journal Reviewer	Polymer Composites	International	May 2020
42.	Journal Reviewer	Solid State Sciences	International	June 2020
43.	Journal Reviewer	Engineering Structures	International	June 2020
44.	Journal Reviewer	Polymer Testing	International	July 2020
45.	Journal Reviewer	Journal of Nanomaterials	International	July 2020
46.	Journal Reviewer	SN Applied Sciences (SNAS)	International	July 2020
47.	Journal Reviewer	Polymer Testing	International	July 2020
48.	Journal Reviewer	Polymer Testing	International	July 2020
49.	Journal Reviewer	Progress in Organic Coatings	International	July 2020
50.	Journal Reviewer	Polymer Testing	International	July 2020
51.	Journal Reviewer	Ceramics International	International	July 2020
52.	Journal Reviewer	Polymer Testing	International	July 2020
53.	Journal Reviewer	Fibers and Polymer	International	July 2020
54.	Journal Reviewer	Engineering Fracture Mechanics	International	Feb 2021
55.	Journal Reviewer	Journal of Materials Engineering and Performance	International	Feb 2021
56.	Journal Reviewer	Journal of Cleaner Production	International	Feb 2021
57.	Journal Reviewer	Polymer Composites	International	Feb 2021
58.	Journal Reviewer	Polymer Testing	International	Feb 2021
59.	Journal Reviewer	International Journal of Mechanical Sciences	International	Feb 2021
60.	Journal Reviewer	Journal of Materials Engineering and Performance	International	Feb 2021
61.	Journal Reviewer	Journal of Natural Fibers.	International	Feb 2021
62.	Journal Reviewer	Polymer Engineering	International	Feb 2021
63.	Journal Reviewer	Polymer Composites	International	03 Jan 2022
64.	Journal Reviewer	Journal of Materials Engineering and Performance	International	03 Jan 2022
65.	Journal Reviewer	Transactions of the Canadian	International	14 Jan 2022

		Society for Mechanical Engineering		
66.	Journal Reviewer	Iranian Journal of Science and Technology, Transactions of Mechanical Engineering	International	17 Jan 2022
67.	Journal Reviewer	Polymer Composites	International	17 Jan 2022
68.	Journal Reviewer	Composites and Advanced Materials	International	29 Jan 2022
69.	Journal Reviewer	Journal of Materials Engineering and Performance	International	07 Feb 2022
70.	Journal Reviewer	Journal of Industrial Textiles	International	07 Feb 2022
71.	Journal Reviewer	Journal of Industrial Textiles	International	13 Feb 2022
72.	Journal Reviewer	Composites Part A	International	16 Feb 2022
73.	Journal Reviewer	Journal of Materials Research and Technology	International	18 Feb 2022
74.	Journal Reviewer	Polymers and Polymer Composites	International	28 Feb 2022
75.	Journal Reviewer	Composites Part B	International	28 Feb 2022
76.	Journal Reviewer	Composites and Advanced Materials	International	07 Mar 2022
77.	Journal Reviewer	Journal of Materials Engineering and Performance	International	14 Mar 2022
78.	Journal Reviewer	Cogent Engineering	International	15 Mar 2022
79.	Journal Reviewer	Journal of Industrial Textiles	International	21 Mar 2022
80.	Journal Reviewer	International Journal of Sustainable Engineering	International	25 Mar 2022
81.	Journal Reviewer	Journal of Industrial Textiles	International	01 April 2022
82.	Journal Reviewer	Journal of Materials Engineering and Performance	International	01 April 2022
83.	Journal Reviewer	Journal of Material Cycles and Waste Management	International	09 May 2022
84.	Journal Reviewer	Journal of Industrial Textiles	International	09 May 2022
85.	Journal Reviewer	Journal of Materials Research and Technology	International	09 May 2022
86.	Journal Reviewer	Journal of Cleaner Production	International	18 May 2022
87.	Journal Reviewer	Journal of Materials Engineering and Performance	International	29 May 2022
88.	Journal Reviewer	Polymer Composites	International	31 May 2022
89.	Journal Reviewer	Journal of Materials Research and Technology	International	2 June 2022
90.	Journal Reviewer	Journal of Cleaner Production	International	04 July 2022
91.	Journal Reviewer	Fullerenes, Nanotubes and Carbon Nanostructures	International	05 July 2022
92.	Journal Reviewer	Surface Review and Letters	International	07 July 2022
93.	Journal Reviewer	Polymer Composites	International	08 July 2022
94.	Journal Reviewer	International Journal of Mechanical Sciences	International	13 July 2022
95.	Journal Reviewer	Polymer Composites	International	14 July 2022
96.	Journal Reviewer	Materials	International	14 July 2022
97.	Journal Reviewer	Journal of Material Cycles and Waste Management	International	19 July 2022
98.	Journal Reviewer	Journal of Natural Fibers	International	02 Aug 2022

University

No.	Name of Activity/ Project/Program	Organiser	Place	Date
1.	Monitoring Officer	Study tour and Singapore Airshow	UTM Skudai and Changi Exhibition Centre, Singapore	14-16 Feb 2014

2.	Committee Member of Faculty Carnival and Final Year Student Project Open Day	Department of Aerospace Engineering, Faculty of Engineering	Universiti Putra Malaysia, UPM	5 June 2014
3.	Organizing Committee for MTSLab Expert Seminar Series: Leveraging Material Testing for Academic Research	Department of Aerospace Engineering, Faculty of Engineering	Universiti Putra Malaysia, UPM	2 April 2014
4.	Committee member of *Materials Lecture Competition (MLC)*2015	Department of Aerospace Engineering, Faculty of Engineering	Universiti Putra Malaysia, UPM	26 Feb 2015
5.	Exhibitor in conjunction with the Industry Networking Session	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	1 Dec 2015
6.	Chief Invigilator of Examinations Semester 2 2015/2016	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	13 June 2015 -26 June2016
7.	Deputy TechnicalManager (Aerospace Structure Laboratory)	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	18 Nov 2016 – 18 Nov 2019
8.	Approved Signatory (Aerospace Structure Laboratory)	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	1 Sept 2016 – 1 Sept 2019
9.	University Level Research Grant Evaluation Panel for UPM Grant Scheme and Science Fund	Universiti Putra Malaysia,UPM	Universiti Putra Malaysia, UPM	2016 - 2017
10.	Chief Invigilator of Examinations Semester 2 2016/2017	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	5 June 2017 – 18 June2017
11.	Committee member of PutraMOOC Malaysia	Universiti Putra Malaysia,UPM	Universiti Putra Malaysia, UPM	2017
12.	Faculty of Engineering Evaluation Panel	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	25 Sept 2017 – 29 Sept 2017
13.	Reviewer for INTROP ResearchColloquium	Institute of Tropical Forestry and Forest Products, UPM	Universiti Putra Malaysia, UPM	2017
14.	Faculty of Engineering Evaluation Panel	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	2018
15.	Committee of Centralize Equipment Management System (CEMS)	Universiti Putra Malaysia,UPM	Universiti Putra Malaysia, UPM	19 Nov 2018 – 19 Nov 2020
16.	Lecture Speaker for AEROFEST 2018	Universiti Putra Malaysia,UPM	Universiti Putra Malaysia, UPM	4 Nov 2018
17.	Deputy TechnicalManager	Faculty of Engineering, UPM	Universiti Putra Malaysia, UPM	31 Jan 2018 – 31 Jan 2021
18.	University Level Research Grant Evaluation Panel	Universiti Putra Malaysia,UPM	Universiti Putra Malaysia, UPM	2018 - 2019
19.	Member of the Independent Committee for Application Upgrade of MSc to PhD	Institute of Tropical Forestry and Forest Products UPM	Universiti Putra Malaysia, UPM	2019
20.	Member of the Technical Committee/Specification of Biocomposite Technology Laboratory	Institute of Tropical Forestry and Forest Products UPM	Universiti Putra Malaysia, UPM	2019
21.	Malaysia Massive Open Online Courses (MOOCs) Development Coordinator	Universiti Putra Malaysia,UPM	Universiti Putra Malaysia, UPM	May 2019 – May 2020

22.	Member of the Industrial Network Working Committee at Faculty of Engineering level	Faculty of Engineering	Universiti Putra Malaysia, UPM	15 July 2019 – 15 July 2021
23.	Assessing Panel for LKP & LAP Assessment Workshop of Faculty of Engineering Putra Grant	Faculty of Engineering	Universiti Putra Malaysia, UPM	5 Aug 2019 – 9 Aug 2019
24.	Assessing Panel for EAS4901 course – Industrial Training Semester 2019/2020	Faculty of Engineering	Universiti Putra Malaysia, UPM	2019 - 2020
25.	Assessing Panel for Analysis Discussion for Consolidation and Integration Proposal FRGS 1/2019	Faculty of Engineering	Universiti Putra Malaysia, UPM	17 Oct 2019
26.	Supervisor of the Graduate Final Examination Semester 1 2019/2020	Faculty of Engineering	Universiti Putra Malaysia, UPM	30 Dec 2019 – 12 Jan 2020

Community

No.	Name of Activity/ Project/Program	Organiser	Place	Date
1.	Khatib Khutbah Jumaat	Majlis Agama IslamSelangor	Madrasah ASSIRATUL MUSTAQEEM Jalan Reko, Kajang	2013
2.	Mathematics Lecturer and Reference Specialist	National Blue Ocean Strategy (NBOS) – UMNO Cawangan JalanReko Kajang	Dewan Undangan Negeri Kajang (DUN N25) dan Dewan Undangan NegeriBangi	5 Jan 2015 – 4Jan 2018
3.	Appointment as Khatib Jumaat dan Lecture Speaker	Jabatan Agama Islam, Selangor	Madrasah Assiratul Mustaqeem, Jalan Reko,Kajang	2 Jan 2015 – 1 Jan 2018
4.	Rimbun Education Programme	Rimbun Capital	Universiti Putra Malaysia	2019
5.	CSR Project - Sungai Angkat @ Parit DPLMX Jalan Enggang Kebun Baru, Teluk Panglima Garang Industrial Estate, Kuala Langat District	Kuala Langat District Council	Kuala Langat District Council	Aug 2019

EAC/ETAC Accreditation Visit

No.	Name of Programme	Role	Date of Visit
1.	Bachelor of Engineering (Aerospace) (Honours)	Observer	22 Feb 2017 – 23 Feb 2017 EAC
2.	Bachelor of Engineering with Honours (Mechanical Engineering)	Panel	17 May 2017 – 18 May 2017 EAC
3.	(i) Bachelor of Mechanical Engineering Technology	Head of Delegation	24 Oct 2017 –

	(Manufacturing) with Honours (ii) Bachelor of Civil Engineering Technology (Environment)with Honours (iii) Diploma in Civil Engineering (iv) Diploma in Electrical Engineering		25 Oct 2017 ETAC MockVisit
4.	(i) Bachelor of Mechanical Engineering Technology (Manufacturing) with Honours (ii) Bachelor of Civil Engineering Technology (Environment)with Honours (iii) Diploma in Civil Engineering (iv) Diploma in Electrical Engineering	Head of Delegation	8 Nov 2017 – 9 Nov 2017 ETAC ActualVisit
5.	Bachelor of Engineering (Honours) Mechanical Engineering	Panel	6 Dec 2017 – 7 Dec 2017
6.	Bachelor of Engineering Technology (Hons)	Head ofPanel	5 March 2018 - 6 March 2018 ETAC
7.	Bachelor of Engineering (Mechanical Aeronautics)	Head ofPanel	2 May 2018 – 3 May 2018 EAC
8.	Bachelor of Engineering Mechanical Automotive (Honours)	Head ofPanel	2 Oct 2018 - 3 Oct 2018 EAC
9.	Bachelor of Engineering (Honours) Mechanical Engineering	Head ofPanel	6 Nov 2018 – 9 Nov 2018
10.	Bachelor of Engineering (Hons) Mechatronics Engineering	Head ofPanel	18 March 2019 - 20 March 2019
11.	Diploma in Mechanical Engineering(INTI International College Penang)	Head of Delegation	24 April 2019- 25 April 2019
12.	Engineering Programme at Politeknik Banting	Head of Delegation	30 Sept 2019 – 3 Oct 2019
13.	Diploma in Aircraft Maintenance Engineering at PoliteknikBanting	EvaluatorPanel	30 Sept 2019 – 2 Oct 2019
14.	Politeknik Banting	Head of Delegation	1 Oct 2019 – 2 Oct 2019

CEng Interview (Professional Body) - IMechE

No.	Name of Candidate	Date of Interview	Principle Interviewer	Second Interviewer
1.	Dr Ahmad Baharuddin Abdullah Member No: 80339987	7th June 2017	Ir. Mathew Thomas Member No: 69015306	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582
2.	Mr Benny KHOO Member No: 80336490	17th Aug 2017	Ir. Mathew Thomas Member No: 69015306	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582
3.	Dr Firmansyah Member No: 80274466	17th Aug 2017	Ir. Mathew Thomas Member No: 69015306	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582
4.	Mr Kung Chuang TING Member No:80335534	28th Aug 2017	Ir. Mathew Thomas Member No: 69015306	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582
5.	Mr Mohd Farid Aladdin Member No: 80358783	02nd Oct 2017	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055

			Member No: 80088582	
6.	Dr Nazri Md Daud Member No: 80346972	02nd Oct 2017	Associate Professor Ir. Dr. Mohamed Thariq Haji HameedSultan Member No: 80088582	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055
7.	Mr Hsien Loong Teow Member No:80152672	27th Oct 2017	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055
8.	Mr Lukmon Owolabi Afolabi Member No:80290430	27th Oct 2017	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055
9.	Mrs Alizawati KAMALUL AZAM Member No:80035626	17th Nov 2017	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055
10.	Dr Abu Saleh AHMED Member No:80358818	17th Nov 2017	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055
11.	Dr Khairul TAMRIN Member No: 80062815	28th Nov 2017	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055
12.	Dr Tezara CIONITA Member No: 80277515	28th Nov2017	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Rajkumar A/L Durairaj Member No: 80089055
13.	Dr Nurulakmar Abu Husain Member No:80290142	21st March 2018	Associate ProfessorIr. Dr. Mohamed Thariq Haji HameedSultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
14.	Dr Ahmad Kadri Junoh Member No:80361426	21st March 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
15.	Ms Lee Choo Tay Member No: 80368007	17th April 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Dr. Chen Khin Fai Member No: 80125694
16.	Dr Muhammad Azizan Member No: 80335138	17th April 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No:80088582	Dr. Chen Khin Fai Member No: 80125694
17.	Mr Sami Hajjaj Member No: 80325412	17th April 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Dr. Chen Khin Fai Member No: 80125694
18.	Dr Hwai Chyuan ONG Member No:80277361	05th June 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
19.	Dr Mohd Ruzaimi Mat Rejab Member No:80290949	05th June 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110

20.	Dr Mohd Asri Yusuff Member No: 80337602	30th July 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
21.	Dr Mohd Razif Idris Member No: 80388197	30th July 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
22.	Mr Vikneswaran Padasivam Member No: 80162855	21st Aug 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
23.	Mr Zulfadli Ghani Member No: 80366178	21st Aug 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
24.	Dr Nur Izan Syahriah Hussein Member No:80350194	19th Nov 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
25.	Dr Seri Rahayu Kamat Member No:80351907	19th Nov 2018	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
26.	Mr Ahmad Danial Zulhilmi Bin AHMAD NAZARI Member No:80389353	24th Jan 2019	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
27.	Mr Boon Liang LOY Member No: 80354067	24th Jan 2019	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
28.	Mr Sin Yen Ng Member No: 80407040	27th May 2019	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
29.	Dr Wei Sea Chang Member No: 80344967	27th May 2019	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Prof. Ir. Dr. Vinesh Thiruchelvam Member No: 80206110
30.	Dr Mohammed Abdulmalek Al-Dheeb	9th October 2019	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Ir. Dr. Dr Sami Hajjaj Member No: 80325412
31.	Mr Chong Jin Lee	9th October 2019	Associate Professor Ir. Dr. Mohamed Thariq Haji Hameed Sultan Member No: 80088582	Ir. Dr. Dr Sami Hajjaj Member No: 80325412